
E v o l D i r

November 1, 2015

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

Foreword

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

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

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



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Conferences

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AsilomarCA LocalAdaptation Jul14-17

SAVE THE DATE!

The American Genetic Association President's Symposium, "Local adaptation: from phenotype to genotype to fitness", will be held July 14-17, 2016, at beautiful Asilomar, CA (<http://www.visitasilomar.com/>).

In the past, many studies dealt only with phenotypes/traits, but today the connection to genotype is becoming feasible for more and more organisms. Our speakers are a blend of established and new investigators, working on a variety of organisms, and who are taking diverse approaches to the question.

The AGA will provide several travel awards to cover registration, room and board for graduate students who would like to attend.

Details and registration will be available in January 2016 at the AGA website: <http://www.theaga.org> Invited speakers:

Key Distinguished Lecture by Victoria Sork (Dean of Life Sciences, UCLA)

Sally Aitken University of British Columbia Jill Anderson University of Georgia Zach Cheviron University of Illinois Emily Dittmar Michigan State University Suzanne Edmands University of Southern California David Field Inst. Science and Tech, Austria Lila Fishman University of Montana Jannice Freidman Syracuse University Steve Keller University of Vermont John Kelly University of Kansas Brian Langerhans North Carolina State University Curtis Lively Indiana University Robert Reed Cornell University Douglas Schemske Michigan State University Rena Schweizer UCLA Kerry Shaw Cornell University Peter Tiffin University of Minnesota

Lynda Delph, AGA President

AGAJOH <AGAJOH@oregonstate.edu>

Debrecen Hungary EvolutionOfMechanisms Jan28-31

Evolution of Mechanisms, January 28-31, 2016, University of Debrecen, Hungary

We are happy to announce an exciting symposium "The

evolution of mechanisms: a workshop on the integration of life history evolution and physiology” held at the University of Debrecen, Hungary in January 28-31, 2016.

In the past decades research in behavior and life history has been dominated by two different approaches: molecular biologists and physiologists investigated the fine-scaled mechanisms of how life history and behavioral processes are regulated, while theoretical and organismal biology provided an explanation for the adaptive value of such traits and the evolutionary forces that shape them. While both approaches have been extremely successful, the proximate-ultimate dichotomy is not warranted anymore: our next challenge is to integrate these approaches and to understand the evolution of the genetic, endocrine mechanisms and signaling pathways that ultimately lead to a bewildering diversity of life-forms.

In order to advance the discussion between these traditionally distinct areas, we organize a workshop where we invite theoreticians and empiricists working in the fields of physiology, molecular biology and evolutionary ecology to discuss the current state of the art and to articulate a research agenda for the future, where they identify the key challenges and approaches to study the evolution of the integrated phenotype and physiological underpinnings of life history evolution. Instead of the dominantly unidirectional information flow of conference symposia, we organize this meeting to promote discussion and debate about ideas, concepts of how we can understand the evolution of mechanisms that provide the raw material for natural selection.

Participants are invited to give contributed talks that advance the goal of the meeting. Additional poster presentations will also be welcome.

Invited speakers:

Thomas Flatt (University of Lausanne): The mechanisms underpinning life history evolution

David Gems (UCL): Role of insulin/IGF-1 signaling in the evolution of life histories and ageing

Laura Lavine (Washington State University): Endocrine signaling and the development of the weapons of sexual selection: insights from beetles

Pat Monaghan (University of Glasgow): Environmental effects that shape individual life histories: mechanisms, trade-offs and time scales

Contact: evolmech2016@gmail.com

For further details and registration visit: <http://zoology.unideb.hu/meetings/XIII/?lang=en> Registration opens on November 1st.

Organizers:

Ádám Lendvai, Zoltán Németh, Jácint Tökölyi, Zoltán Barta

— Zoltán Németh

MTA-DE “Lendület” Behavioral Ecology Research Group Department of Evolutionary Zoology, University of Debrecen, Debrecen, Egyetem tér 1., 4032, Hungary http://zoology.unideb.hu/?m=Zoltan_Nemeth Zoltan Nemeth <znemeth05@gmail.com>

Edinburgh Quantitative Genetics Oct30

The ninth meeting of the Edinburgh Alliance for Complex Trait Genetics will be held on Friday 30th October, 2015 at the Royal Society of Edinburgh, 22-26 George Street, EH2 2PQ.

The draft programme for this event is shown below. Attendance is free, but please register for attendance on the sign-up sheet at <http://tinyurl.com/p45z9tf>

We very much look forward to seeing you there.

Josephine Pemberton, Chris Haley and the E-ACTG steering committee

13.00 Arrival, registration, coffee and biscuits 13.30 Konrad Rawlik (Roslin Institute) Imputation of tissue specific intermediate phenotypes for association studies 14.00 Osvaldo Anacleto (Roslin Institute) Identifying genetic superspreaders of infection 14.30 Mairead Bermingham and colleagues (IGMM) Prediction of major depressive disorder with the Generation Scotland cohort 15.00 Jisca Huisman (IEB) Estimating inbreeding depression in the wild: genomic estimators outperform pedigrees 15.30 Tea / Coffee 16.00 Rob Ness (IEB) Estimating mutation rates and effect sizes 16.30 Sarah Harris & Dave Hill (Centre for Cognitive Ageing and Cognitive Epidemiology) UK Biobank: Molecular genetic contributions to self-rated health. 17.00 Susan Johnston (IEB) The genetic basis of individual recombination rate variation in a wild population. 17.30 Discussion and refreshments

Sponsored as a Sectional Interest Group by the Genetics Society

– The University of Edinburgh is a charitable body, registered in Scotland, with registration number SC005336.

Josephine Pemberton <j.pemberton@ed.ac.uk>

Gordon LifesOrigins Jan

Dear Colleagues,

I am delighted to report that a detailed program is now available for the January 2016 Gordon Research Conference on the Origins of Life.

In addition to meeting usual GRC expectations of a list of excellent speakers, this year's offering focuses upon the theme of "building bridges between different academic disciplines" and creates multiple, deep connections with the GRS (for early career scientists) which immediately precedes the main conference. Applications to attend are welcomed up to December 20th, and further details may be found here:

<https://www.grc.org/programs.aspx?id=14007> – Director, Interdisciplinary Studies Program (INDS) Rm 019 Fine Arts UMBC 1000 Hilltop Circle, MD 21250 Phone: 410-455-2024 Fax: 410-455-2004 <http://www.umbc.edu/inds/> "freeland@umbc.edu" <freeland@umbc.edu>

GreifswaldU EnvironmentalAdaptation Mar6-9

Graduate Meeting Evolutionary Biology & Ecology

Responses to Environmental Change

6th to 9th March 2016

Greifswald University, Audimax, Domstraße 11

On behalf of the sections Evolutionary Biology and Ecology of the German Zoological Society (DZG) it is our great pleasure to invite you to the 21st Graduate Meeting on Evolutionary Biology! We aim at bringing together MSc students, doctoral and postdoctoral researchers from all fields of evolutionary biology and ecology. The main topic will be responses to environmental change, though contributions from other fields will of course be considered as well. Thus, join in to present and discuss your research!

The meeting will last from Sunday, 6th March, starting at 7 p.m. with an icebreaker party until Wednesday,

9th March, around lunchtime. The program will include invited and contributed talks, a poster session, but also social events such as an excursion to the Baltic lagoons. Our confirmed keynote speakers are Prof. Luc de Meester (KU Leuven) and Prof. Jean Clobert (CNRS Moulis). Greifswald is a beautiful town located right at the Baltic Sea, surrounded by spectacular wildlife and scenery.

Accommodation: We have reserved a limited number of rooms in the youth hostel of Greifswald, which is within walking distance to the venue. Please sign up as soon as possible for the youth hostel (first come, first serve). Prizes for bed and breakfast per night are: single room 32.40 EUR, double room 26.40 EUR, 3-5 bed room 22.40 EUR.

To register, please send an email to Michael Schöner (schoenerm@uni-greifswald.de) before 6th December 2015 including information on whether you would like to (1) present a talk (15 + 5 minutes), a poster (please include a preliminary title for both) or none, and (2) stay in the youth hostel (please indicate type of room) or not. Participation is free of charge, though we cannot cover travel expenses and accommodation.

The meeting will be organized by the DFG funded Research Training Group RESPONSE (Biological Responses to Novel and Changing Environments; www.uni-greifswald.de/response/).

Looking forward to seeing you in Greifswald!

Prof. Dr. Klaus Fischer Zoological Institute & Museum Greifswald University J.-S.-Bach-Str. 11/12 D-17489 Greifswald Phone: +49-3834-864266 Fax: +49-3834-864252

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<kfischer@uni-greifswald.de>

Hinxton UK EvolutionarySystemsBiol Mar2-4

Dear all,

We are pleased to announce a new meeting: Evolutionary Systems Biology - >From Model Organisms to Human Disease, to be held at the Wellcome Genome Campus, Hinxton, Cambridge, UK, from 2-4 March 2016. This conference will provide a forum for scientists interested in applying systems and mechanistic approaches to understand evolution and those incorpo-

rating evolutionary perspectives to understand human disease. It should be of particular interest to those working at the interface of systems biology, evolutionary genetics and genomics.

Keynote speakers Naama Barkai Weizmann Institute of Science, Israel Martin Kreitman University of Chicago, USA

Confirmed speakers Nathalie Balaban The Hebrew University of Jerusalem, Israel Santiago Elena Instituto de Biología Molecular y Celular de Plantas, Spain Isabel Gordo Instituto Gulbenkian de Ciencia, Portugal Angela Hay Max Planck Institute for Plant Breeding Research, Germany Michael Lynch Indiana University, USA Ville Mustonen Wellcome Trust Sanger Institute, UK Fred Nijhout Duke University, USA Dan Tawfik Weizmann Institute of Science, Israel Olivier Tenaillon INSERM, Universités Paris Diderot et Paris Nord, France Joe Thornton University of Chicago, USA Dennis Vitkup Columbia University, USA Andreas Wagner University of Zurich, Switzerland Patricia Wittkopp University of Michigan, USA

For more information and registration, please go to: <https://registration.hinxton.wellcome.ac.uk/-events/item.aspx?e=568> The scientific programme committee Ben Lehner, Centre for Genomic Regulation, Spain Marie-Anne Felix, Institute of Biology of the Ecole Normale Supérieure, France Csaba Pal, Biological Research Center, Hungary

Marie-Anne Felix Institute of Biology of the Ecole Normale Supérieure (IBENS) 46 rue d'Ulm, 75230 Paris cedex 05, France 8th floor. Office: Room 801. Lab: Room 817. mail: felix@biologie.ens.fr Tel: +33-1-44-32-39-44 <http://www.ibens.ens.fr/?rubrique29&lang=en> STRAINS: <http://www.justbio.com/worms/index.php> felix@biologie.ens.fr

IUFRO France ForestGenomics May30-Jun3

Genomics and Forest Tree Genetics Conference A conference jointly organised by the four working parties of IUFRO subdivision 2.4 (Genetics) with two side events: Genomic Selection workshop & IUFRO Task Force meeting 30 May - 3 June, 2016 - Arcachon, France <https://colloque.inra.fr/iufro2016/> Just a decade after the first forest tree genome sequence was published (that of black cottonwood in 2006), the rapidly evolving tools

and methods of 'omics' and bioinformatics have advanced our understanding of the following topics: tree growth and development; the responses of trees to intrinsic and extrinsic factors; the remarkable buffering capacity of trees, enabling them to cope with chronic stresses and extreme events; the molecular basis of genetic variation within and between species and the way in which this variation has been shaped by evolutionary forces and its relationship to phenotypic variation and adaptation.

Genomics will undoubtedly play a major role over the next decade and beyond, not only to further understand the mechanisms underlying the adaptation and evolution of these organisms, but also to develop and implement innovative management and policy actions to preserve the 'adaptability' of natural forests and intensively managed plantations. Knowledge gained through the use of 'omics' technologies can thus have a huge potential impact when helping forests adapt to the main challenges they will face in the future (e.g. increasing wood demand, pressure to conserve forest areas, climate changes and associated threats).

Therefore, the objective of this conference - bringing together researchers from the four working parties of IUFRO subdivision 2.4 (Forest Genetics) - is to present and discuss new scientific findings in the area of 'population, quantitative and evolutionary genetics and how they can be applied in genetic resource conservation and breeding'. Participants may submit contributions from empirical, experimental and theoretical pieces of works, that address key leading scientific and applied issues.

"bruno.fady@avignon.inra.fr"
<bruno.fady@avignon.inra.fr>

Kansas Genomics Nov6-8 PosterAbstractDeadline

POSTER ABSTRACT DEADLINE THIS FRIDAY, OCTOBER 16!!!

13th Annual Ecological Genomics Symposium November 6-8, 2015 Hilton Garden Inn, Manhattan, KS Symposium website: <http://ecogen.k-state.edu/symposia/-2015.html> This year marks the 13th anniversary of the Ecological Genomics Symposium. The symposium will feature a diverse array of established and emerging leaders in the field of ecological and evolutionary genomics. Symposium details can be found at <http://ecogen.k-state.edu/symposia/-2015.html>

ecogen.k-state.edu/symposia/2015.html. The meeting will convene at 7:00 p.m. on Friday, November 6, and conclude at Noon on Sunday, November 8.

REGISTRATION: Please register online today at: <http://ecogen.k-state.edu/symposia/2015registration.html>. This year, the registration price includes the Saturday night networking banquet. There is an optional Konza Prairie tour on Sunday afternoon, for an additional fee.

POSTER ABSTRACTS: Poster topics should be related to the field of Ecological Genomics. Instructions for submitting your abstract online are at: <http://ecogen.kstate.edu/symposia/2015abstract.html>. DEADLINE: October 16.

VENUE: The symposium will take place at the Hilton Garden Inn in downtown Manhattan. Reserve your hotel room online by visiting the Symposium website.

FEATURED SPEAKERS:

- * Scott V. Edwards, Harvard University, Comparative genomics and the origin of phenotypic novelty in birds
- * Michael Lynch, Indiana University, The 5000-genome *Daphnia pulex* Project
- * Melissa Pespeni, University of Vermont, Ecological genomics in a diverse and changing world: Studies in sea urchins and horned beetles
- * Stacey D. Smith, University of Colorado Boulder, Evolutionary genomics of flower color transitions
- * Joan Strassmann, Washington University in St. Louis, Cooperation, conflict, and symbiosis in social amoebae
- * Michi Tobler, Kansas State University, Finding mechanisms underlying life in extreme environments

ADDITIONAL INFORMATION will be posted on our website, <http://ecogen.k-state.edu/symposia/2015.html>, as details are finalized.

Ecological Genomics Institute Directors: Dr. Loretta Johnson, johnson@ksu.edu Dr. Michael Herman, mherman@ksu.edu Kansas State University, Division of Biology 116 Ackert Hall, Manhattan, KS 66506-4901

by Jennifer Rhodes, Program Coordinator jennifer-rhodes@ksu.edu

Jennifer Rhodes <jenniferrhodes@ksu.edu>

New York Population Genomics Jan16

Join us for the second New York Area Population Genomics Meeting!

This one-day event will be held THURSDAY, JANUARY 21, 2016, at Princeton University.

The workshop is intended to promote interaction among New York area population geneticists. The meeting will feature invited talks by Lindy McBride (Princeton) and Ben Voight (University of Pennsylvania) and talks selected from abstracts submitted by students and post-docs. All talks will be 15 minutes. The meeting's focus spans population, quantitative, comparative, evolutionary, and statistical genetics and genomics.

The abstract deadline is NOVEMBER 30, 2015.

For more information, and to register and submit abstracts, visit <http://nyapogen.wordpress.com/>. Registration is free but required.

Organizers: Barbara Engelhardt (Princeton), Joe Pickrell (NY Genome Center and Columbia), Matt Rockman (NYU)

"mrockman@nyu.edu" <mrockman@nyu.edu>

NHM London Young Systematists Nov20 Abst

Reminder abstracts due in 1 week 23 October.

17th YOUNG SYSTEMATISTS FORUM

Friday, 20 November 2015, 9:30 am Venue: Flett Lecture Theatre, Natural History Museum, London, UK

The annual Young Systematists Forum represents an exciting setting for Masters, PhD and young postdoctoral researchers to present their data, often for the first time, to a scientific audience interested in taxonomy, systematics and phylogenetics. This well-established event provides an important opportunity for budding systematists to discuss their research in front of their peers within a supportive environment. Supervisors and other established systematists are also encouraged to

attend.

Prizes will be awarded for the most promising oral and poster presentation as judged by a small panel on the day.

Registration is FREE. Send applications by e-mail to (YSF.SystematicsAssociation@gmail.com), supplying your name, academic or contact address, stage of your career (MSc student, PhD student, postdoc) and stating whether or not you wish to give an oral or poster presentation. Space will be allocated subject to availability and for a balanced programme of animal, plant, algal, microbial, molecular and other research. Non-presenting attendees are also very welcome - please register as above.

Again the YSF will be held the day after the Molluscan Forum (<http://www.malacsoc.org.uk/-MolluscanForum.htm>) also at the Natural History Museum. This has been arranged so both meetings can be attended, although you will have to register for both meetings separately.

Abstracts must be submitted by e-mail in English no later than Friday 23 October 2015. The body text should not exceed 150 words in length. If the presentation is co-authored, the actual speaker (oral) or presenter (poster) must be clearly indicated in BOLD text.

All registered attendants will receive further information about the meeting, including abstracts, by e-mail one week in advance. This information will also be displayed on the Systematics Association website (www.systass.org).

Dr Ellinor MICHEL Department of Life Sciences The Natural History Museum Cromwell Road SW7 5BD London UK tel: +44-207-942-5516

<http://nhm.academia.edu/EllinorMichel>
www.researchgate.net/profile/Ellinor_Michel Ellinor Michel <e.michel@nhm.ac.uk>

Rovinj Croatia PolyploidyHybridization May11-14

International Conference on Polyploidy, Hybridization and Biodiversity

11-14 May 2016, Rovinj, Croatia

Dear Colleagues,

It is our great pleasure to inform you that International

Conference on Polyploidy, Hybridization and Biodiversity (ICPHB 2016) will be held from May 11 to 14, 2016 in Rovinj, Croatia (<http://www.hbd-sbc.hr/en/icphb2016/>). This conference presents cutting edge research into the importance of polyploidy in genetics, evolution and ecology. The topics of the conference are organized in three core sessions: (1) the long-term and (2) immediate consequences of interspecific hybridization and polyploidy. These explore effects over deep time and shallower time frames and focus on genetics and epigenetics. The final core session will be: (3) polyploidy in light of ecological genetics where we will discuss current data showing effects of hybridization and polyploidy on phenotypes, niche occupation and ecology. While previous polyploidy meetings have been dominated by plant research, there is now much exciting new data from animals and fungi, areas we are particularly keen to encourage. On behalf of the organizing committee, we cordially invite you to join the conference to communicate with the distinguished speakers and share your research results.

Call for Presentation and Attendance

You're welcome to attend our conference (without presentation) or submit your abstract through registration system for an oral and poster presentation (<http://www.hbd-sbc.hr/en/icphb2016/abstract-submission/>). We would extend our highest appreciation and warmest welcome to your attention and attendance. Your participation will be essential to the success of the conference.

Istrian experience with traditional dinner

Rovinj is one of the most developed tourist destinations in Croatia, boasting rich natural and cultural heritage with beautiful landmarks such as the old town and the lush Zlatnirt (Punta corrente) forest. Zlatnirt is a protected forest park, while Rovinj's islands and coastal area are protected landscapes/seascapes. During the conference participants will have opportunity to travel to mystic Middle ages of Svetvinaenat in Morosini Grimani castle - legend about Mare the witch from Svetvinaenat enriched with the fair of autochtonous products, degustation of Istrian delicacies, learning the istrian typical music and folk dance - balunia.

Yours sincerely,

Visnja Besendorfer

ICPHB2016 Organizing Committee

Email: icphb2016@biol.pmf.hr

Jonathan F. Wendel, Distinguished Professor and Chair
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<http://www.eeob.iastate.edu/faculty/WendelJ/> (Personal home page)
<http://www.eeob.iastate.edu/> (Department home page)

“Wendel, Jonathan F [EEOBS]” <jfw@iastate.edu>

RoyalSoc London EmergingFungalPathogens Mar7-8

Two-Day Discussion Meeting in the Royal Society of London on

‘Emerging fungal threats to animal health, food security and ecosystem resilience.’ There is a strong focus on the ecological genomics underpinning invasion dynamics across this meeting.

9:00 am on Monday 07 March 2016 - 5:00 pm on Tuesday 08 March 2016 at The Royal Society, 6-9 Carlton House Terrace, London

Organised by Professor Matthew Fisher, Professor Neil Gow and Professor Sarah Gurr

<https://royalsociety.org/events/2016/03/emerging-fungal-threats/> This meeting is free, but registration is required and places are limited. Please register early to avoid disappointments.

The meeting is then followed by a satellite meeting on the 09th and 10th of March at the Kavli Royal Society Centre You may submit a poster if you wish to give a poster and elevator pitch on your research. Again, places are limited for attendance at this very attractive venue.

<https://royalsociety.org/events/2016/03/emerging-fungal-threats-sm/> We hope to see you there!

Matthew Fisher, Neil Gow and Sarah Gurr

matthew.fisher@imperial.ac.uk

“Fisher, Matthew” <matthew.fisher@imperial.ac.uk>

SanFrancisco EvolutionCancer Dec10-13

Biannual Evolution and Cancer Conference (IBECC)

Registration and abstract submission is now open for the 3rd International Biannual Evolution and Cancer Conference (IBECC) at UCSF Mission Bay Conference Center, Dec 10-13th, 2015. The theme for this year’s conference is Evolutionary Tradeoffs and Clinical Consequences.

Register and submit an abstract for a poster or talk here: <https://www.eventbrite.com/e/3rd-international-biannual-evolution-and-cancer-conference-tickets-18749103072> We are also happy to announce the new International Society for Evolution, Ecology and Cancer (iSEEC). To learn more about this new society go to: www.iseec.org. You can join the society through the conference registration link and get a discount on the conference registration fee. You can also follow iSEEC on twitter (handle @evocancer). Please tweet at us any announcements or new findings and iseec will retweet them to the community.

More details about the conference can be found below and on the CEC website here: <http://cancer.ucsf.edu/-evolution> Third International Biannual Evolution & Cancer Conference Evolutionary Tradeoffs & Clinical Consequences Thursday, December 10 - Sunday, December 13 San Francisco, CA UCSF, Mission Bay Conference Center

Tradeoffs are pervasive in biological systems, and the evolutionary dynamics underlying cancer are no exception. IBECC 2015 will explore the ways in which tradeoffs have shaped the evolution of cancer suppression systems and the role of tradeoffs in the progression of tumors from benign to malignant. A consideration of evolutionary tradeoffs can also help us to identify challenges and opportunities in cancer therapy and new horizons for cancer prevention.

We welcome scientists coming from different disciplines, including but not limited to oncology, cell biology, evolutionary biology and mathematics. Abstract submissions relating to the theme of evolutionary tradeoffs and clinical consequences are encouraged but submission on all evolution and ecology of cancer topics are welcome. Registration and abstract submission for talks and posters is now open. Speakers for parallel session talks will be selected from submitted abstracts. Abstracts must be submitted by Oct 15th.

Cancer Keynote Address Marco Gerlinger Institute for Cancer Research, London Evolution Keynote Address Susan Rosenberg Baylor College of Medicine Public Lecture Barbara Natterson University of California Joel Brown - Plenary University of Illinois Sarah Hill - Plenary Texas Christian University Hanna Kokko - Plenary University of Zurich Aurora Nedelcu - Plenary University of New Brunswick Dan Nettle - Plenary Newcastle

University

Michael Hochberg <mhochber@univ-montp2.fr>

San Francisco Evolution Cancer Dec10-13 AbstDeadline

*** Abstract submission deadline extended to November 1st *** Biannual Evolution and Cancer Conference (IBECC)

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ical consequences are encouraged but submission on all evolution and ecology of cancer topics are welcome. Registration and abstract submission for talks and posters is now open. Speakers for parallel session talks will be selected from submitted abstracts.

Abstracts must be submitted by November 1st(*).

Cancer Keynote Address Marco Gerlinger Institute for Cancer Research, London Evolution Keynote Address Susan Rosenberg Baylor College of Medicine Public Lecture Barbara Natterson University of California Joel Brown - Plenary University of Illinois Sarah Hill - Plenary Texas Christian University Hanna Kokko - Plenary University of Zurich Aurora Nedelcu - Plenary University of New Brunswick Dan Nettle - Plenary Newcastle University

* The deadline for registration is November 20th.

Michael Hochberg <mhochber@univ-montp2.fr>

Valencia SMBE Satellite Meeting May17-20

SMBE Satellite Meeting. Valencia, Spain. May 17-20, 2016

We are happy to announce the SMBE Satellite Meeting on RNA modification and its implication on adaptation and evolution.

In the last years our knowledge of RNA-regulated processes like microRNA-mediated gene expression control, alternative splicing, and RNA editing has noticeably expanded. Understanding the scope, mechanisms and evolutionary patterns of such molecular processes has emerged as a new challenge in biology, medicine, and evolution. The objective of this workshop is to bring together molecular and evolutionary biologists to discuss the variability of the RNA processing mechanisms, their adaptive roles, and the promise of next generation sequencing technologies in order to study their impact in genome evolution.

We expect early career scientists will benefit from this opportunity to meet top scientists in their respective fields. To facilitate the presence of PhD and postdoctoral students, a limited number of them will be selected for travel grants. The meeting will hold about 50 people, so submitted abstracts will be thoroughly selected. The meeting will be held at the Botanical Garden in Valencia, Spain and will take place from May 17th to May

20th, 2016. Valencia, the third largest city of Spain, is a historical city located on the Mediterranean coast. It is very well connected to Madrid and Barcelona and also has its own international airport.

More information about the meeting can be found at: <http://smbeed2016.cibiv.univie.ac.at/> Please, mark your calendars and do not miss this exciting event! Miguel Gallach <miguel.gallach@univie.ac.at> Arndt von Haeseler <arndt.von.haeseler@univie.ac.at> > Michael Jantsch <Michael.Jantsch@univie.ac.at>

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GradStudentPositions

Adelaide Australia AncientDNA	11	UAmsterdam Evolution	27
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Adelaide Australia AncientDNA

Aboriginal Heritage Project: Phylogeography, Genetics and Ancient DNA

A PhD project is available at the Australian Centre for Ancient DNA (<https://www.adelaide.edu.au/acad/>) as part of several ongoing ARC-funded studies to reconstruct Aboriginal Heritage using ancient DNA and museum collections of hair samples from across Australia. The project is a close collaboration with Aboriginal families and communities across Australia and the South Australian Museum. It is aimed at reconstructing a continent-wide picture of Indigenous Australia prior to European colonisation, analysing migration and trade routes, and the distribution of genetic diversity and community relationships.

Relevant techniques include ancient DNA, phylogeography, archaeology, Aboriginal culture and history, and museum research. The project has strong potential to make major contributions to our understanding of Australian and Aboriginal history, assist with the Stolen Generation, and reconciliation more broadly.

The project is a close collaboration with the South Australian Museum, BioPlatforms Australia, the Australian Genome Research Facility, and an international team of researchers. Fieldwork in remote communities will form a key part of the project.

A highly motivated candidate with strong initiative and organisational skills is required, with a background in areas such as genetics, archaeology, ancient DNA, phylogeography, anthropology or museum archival research and a strong interest in Aboriginal and Australian history. A publication record would be a distinct advantage, and the position is open to both Australian and international candidates.

Contact Prof. Alan Cooper, alan.cooper@adelaide.edu.au, with a letter of in-

terest, background information addressing the above criteria, and a CV by October 21, 2015.

alan.cooper@adelaide.edu.au

BiKF Frankfurt PopulationGenomics

Two PhD positions in Frankfurt/Germany available

The BiK-F Molecular Ecology Group, headed by Markus Pfenninger, invites applications for a

Doctoral position in experimental population genomics (m/f) (65%)

The candidate is expected to work on the DFG project "Rapid seasonal thermal adaptation in *Chironomus riparius*" as part of the "Rapid Adaptation" Priority Program. Your tasks: - To regularly sample field populations of *C. riparius* throughout the seasons - To maintain experimental populations of the species - To perform fitness experiments on field and experimental populations - To perform population genomic analyses (PoolSeq) on on field and experimental populations

Your profile: - Master in evolutionary biology, bioinformatics, molecular ecology or similar fields - Familiarity with population genetic concepts - Dedication to scientific research - Good written and oral communication skills - Interest to work in interdisciplinary teams

Salary and benefits are in accordance with a public service position in Germany (TV-H E13, 65%). The contract shall start January, 1st 2016 for three years. The Goethe University supports equal opportunity of men and women. Equally qualified handicapped applicants will be given preference. The type of handicap should not prevent work needed to conduct the research, in particular the field work. The duty station will be Frankfurt am Main, Germany. The employer is the

Goethe-University. Please send your application before October, 30th 2015 preferably by e-mail (attachment in a single pdf document), mentioning the reference of this position and including a letter outlining your suitability for the post, a detailed CV, contact details of two potential references and, if available, publications to Pfenninger@bio.uni-frankfurt.de.

BiK-F Senior Researcher Bob O'Hara invite applications for a

Doctoral position in theoretical population genomics (m/f) (65%)

The candidate is expected to work on the DFG project "Rapid seasonal thermal adaptation in *Chironomus riparius*" as part of the "Rapid Adaptation" Priority Program. Your tasks: - To extend current models of cyclic selection to look at its effects on multiple loci, and predict the effects of future climate change on cyclic selection - To develop statistical models for effects of cyclic selection on the genome - To help analyse data coming out of field sampling and experiments on cyclic adaptation

Your profile: - Master in evolutionary biology, bioinformatics, statistics or similar fields - Good quantitative and modelling skills - Familiarity with population genetic concepts - Dedication to scientific research - Good written and oral communication skills - Interest to work in interdisciplinary teams

Salary and benefits are in accordance with a public service position in Germany (TV-H E13, 65%). The contract shall start January, 1st 2016 for three years. The Senckenberg Research Institute supports equal opportunity of men and women. Equally qualified handicapped applicants will be given preference. The type of handicap should not prevent work needed to conduct the research, in particular the field work. The duty station will be Frankfurt am Main, Germany. The employer is the Senckenberg Gesellschaft für Naturforschung. Please send your application before October, 30th 2015 preferably by e-mail (attachment in a single pdf document), mentioning the reference of this position and including a letter outlining your suitability for the post, a detailed CV, contact details of two potential references and, if available, publications to bohara@senckenberg.de.

Prof. Dr. Markus Pfenninger Forschungszentrum Biodiversität & Klima Molekulare Ökologie Gruppe Georg-Voigt Straße 14-16 D 60325 Frankfurt am Main Germany pfenninger@bio.uni-frankfurt.de

Brigham YoungU Dragonfly Evolution

The Bybee Lab at Brigham Young University in the Department of Biology is seeking a highly motivated graduate student with an interest in evolutionary biology, morphology and insect phylogenetics. Our lab is currently funded by the National Science Foundation to produce a large-scale phylogeny of both fossil and extant Odonata.

Research Interests

The Bybee Lab is focused on the evolution of insects with a strong emphasis in dragonflies and damselflies (Odonata), particularly the evolution of their visual systems. Our research draws from molecular, morphological and fossil evidence to examine evolutionary relationships (phylogeny), morphological innovation, and molecular evolution. Students interested in exploring such research topics, particularly morphological evolution, are strongly encouraged to apply.

Qualifications

Applicants should have a background in evolutionary biology. Experience with invertebrate zoology (extant and/or fossil), phylogenetics, systematics and/or quantitative skills (bioinformatics, computer programming) is a plus. The successful applicant will have excellent writing, communication, and interpersonal skills. Our lab is highly collaborative so a willingness to work together is important. Proficiency in English (both spoken and written) will be required. Research in the Bybee lab will also require physically demanding fieldwork as well as museum work from time to time. Salary and benefits are competitive.

Requirements

Ideally the successful graduate students will be admitted to start in the Fall of 2016. Applicants looking to do a PhD are preferred but MS applicants will also be considered. Interested applicants should send a letter of interest outlining research interests, career goals and rationale for pursuing a graduate degree, along with a CV to seth.bybee@gmail.com.

BYU

The Ecology and Evolutionary Ecology group is a diverse set of faculty working on plants, animals, and microbes in the areas of phylogenetics, bioinformatics,

evolutionary ecology, conservation biology, population and community ecology, evolution of development, and ecosystem ecology. There is a focus on integrating modeling, theory, and experimentation.

The Systematics group features faculty working in both model and non-model systems in experimental laboratory and field applications. Specific areas of research include genomics (experimental and computational), molecular evolution, population genetics, quantitative genetics, biogeography, phylogeography, and the evolution of genetic and infectious diseases.

Graduate students admitted to the program receive guaranteed funding from the department for up to 5 years. BYU also offers prestigious graduate fellowships (<https://graduatestudies.byu.edu/content/hidra>) and students are encouraged to apply. More information on the application process and Graduate School at BYU can be found here: <http://graduatestudies.byu.edu/> Application deadline is Jan 15th 2016.

BYU is located in the heart of the Rocky Mountains in Provo Utah with world famous attractions (e.g., national parks, ski resorts, etc.) close by. Year round, outdoor activities such as Skiing, hiking and biking are all within a 20 minute drive of campus.

Brigham Young University is affiliated with and sponsored by The Church of Jesus Christ of Latter-Day Saints. All students are required to abide by the university's honor code and dress and grooming standards: <http://saas.byu.edu/catalog/2011-2012ucat/-GeneralInfo/HonorCode.php#HCOfficeInvovement>. It is an equal opportunity employer, does not discriminate on the basis of race, color, gender, age, national origin, veteran status, or against qualified individuals with disabilities.

Contact Information

Seth Bybee, PhD

Assistant Professor

Department of Biology

401 WIDB

Provo, UT 84602

801-422-3152

Seth.bybee@gmail.com

– Seth Bybee, PhD 4057 LSB Brigham Young University Provo, Utah 84602

Seth Bybee <seth.bybee@gmail.com>

Brigham YoungU Plant Genome Evolution

Multiple graduate student positions (MS and PhD) in the evolution of plant genomes are available beginning Fall 2016 in the Department of Plant and Wildlife Science, Brigham Young University. Research focus of these assistantships center on the genome evolution of polyploid plants (*e.g.* cotton; see <http://udall-lab.byu.edu>). During their thesis work, students will employ molecular, structural, and genetic approaches to address basic questions in the evolution of plant domestication and genetic diversity of cotton. Specific technologies employed in the approaches include BioNano optical mapping, PacBio and Illumina DNA sequencing, and computational biology.

Successful applicants must be highly motivated, willing to work hard, and hopefully they are not too distracted by living in the most beautiful place in the world. Ideally, applicants should have a solid, but not necessarily deep, understanding of bioinformatics and an interest in genomics. Actual wet-lab experience with basic molecular biology techniques is a plus (PCR, cloning, sequence analysis, etc.).

Funding for this position is through a combination of Teaching and Research Assistantships from the National Science Foundation and Cotton Incorporated. This means students will be paid a stipend while they earn their graduate degree! In addition to the stipends, tuition and health insurance will also be provided for the accepted students. Interested students from other Universities than BYU could receive up to \$30K per year through the HIDRA < <https://graduatestudies.byu.edu/content/hidra> > program (for off-campus applicant to BYU) or through the University Graduate Research Award (after first year of studies).

Interested applicants should send a CV, transcripts, GRE scores (if available) and a statement of research interests to Joshua Udall (jaudall@byu.edu). Applications will be screened starting Dec. 1 and continue until to February 1st, 2016. International students with strong credentials are welcome and encouraged to apply.

– Joshua Udall (5133 LSB) Brigham Young University 701 E. University Parkway Plant and Wildlife Science Depart. Provo, UT 84602

Office: 801-422-9307

jaudall1@gmail.com

ColoradoStateU Evolution

Colorado State University is seeking outstanding graduate students in the field of evolutionary biology. CSU is home to a strong and diverse group of evolution-focused labs, many of which are accepting grad students this year. Interested students are highly encouraged to explore the research pages of CSU faculty and contact professors before applying to a CSU graduate program. The university is home to a number of departmental and interdisciplinary graduate programs, and prospective faculty mentors can assist in selecting the program that would be the best match for a student's interests. CSU faculty members currently accepting graduate students include:

Lisa Angeloni Department of Biology <http://rydberg.biology.colostate.edu/angelonilab/Site/Home.html> Chris Funk Department of Biology <http://wp.natsci.colostate.edu/funklab/> Kim Hoke Department of Biology <http://hokelab.weebly.com/> Ruth Hufbauer Bioagricultural Sciences and Pest Management <http://www.hufbauerlab.org/> John McKay Bioagricultural Sciences and Pest Management <http://www.mckaylab.colostate.edu/> Rachel Mueller Department of Biology <http://rydberg.biology.colostate.edu/-muellerlab/Home.html> Dhruva Naug Department of Biology <http://rydberg.biology.colostate.edu/-dhruva/> Paul Ode Bioagricultural Sciences and Pest Management <http://lamar.colostate.edu/~paulode/> Mark Simmons Department of Biology <http://lamar.colostate.edu/~psimmons/> Dan Sloan Department of Biology <https://sites.google.com/site/danielbsloan/> Colleen Webb Department of Biology <http://rydberg.biology.colostate.edu/ctwebb/> CSU is a world-class research university located in Fort Collins, CO, about an hour north of Denver and right at the foothills of the Rocky Mountains. Fort Collins is widely regarded as having a great quality of life at a reasonable cost of living. It has excellent opportunities for outdoor recreation, an active music scene, a strong biking culture, and numerous great restaurants and breweries.

dbsloan@rams.colostate.edu

CornellU FisheriesGenomics

The lab of Nina Overgaard Therkildsen in the Department of Natural Resources at Cornell University is looking for a highly motivated PhD student to start in the fall of 2016.

Research in the lab focuses on how contemporary environmental change and human impacts shape demographic, ecological, and microevolutionary processes within marine species. We are particularly interested in how human activities cause rapid evolution in many wild populations and in the roles that ongoing genetic adaptation and geographic distribution shifts will play for species persistence in our rapidly changing world. Our core tools to address these questions are high-throughput DNA sequencing methods that are opening completely new opportunities for population genomic studies of non-model organisms. A cornerstone of our research is to analyze time series of genomic data, which allow for direct tracking of changes over known time scales and therefore provide a unique opportunity to observe recent dynamics and microevolution in retrospective real time. Insights gained through this approach can also be important for characterizing population structure in exploited species, and we are working actively to develop ways to use genomic analysis for improving marine conservation and fisheries management.

PhD students will have the opportunity to develop their own project that aligns with the overarching lab interests or to join ongoing projects relating to fisheries-induced and climate-driven adaptation (based on experimental data and historical samples collected from wild fish stocks) and harnessing genomic data for better delineation of biologically relevant units for fisheries management and estimation of contemporary connectivity between populations.

Applicants should have a strong background and interest in evolutionary biology, fisheries, population genetics, bioinformatics or a related field. Familiarity with molecular laboratory techniques, computational skills and previous experience working with large genomic data sets will be advantageous. However, the most important qualifications are enthusiasm, drive, excellent written and oral communication skills, and demonstrated ability to work independently as well as in collaborative teams.

Interested candidates should send an email describing their motivation and research interests along with

a CV, GPA, GRE scores (if available), and names of three references to Nina Overgaard Therkildsen (nt246@cornell.edu). Qualified candidates will be contacted to apply for sponsored admission through the Cornell Graduate Field of Natural Resources by December 1 2015. Funding for the position is available through research assistantships, teaching assistantships, and university fellowships, but candidates will also be encouraged to apply for external fellowships (in-progress fellowship applications will be viewed very favorably). The Natural Resources Graduate Program offers an exciting inter-disciplinary environment for graduate training with ample opportunity for interaction with the vibrant and diverse research community across the Cornell campus.

“nt246@cornell.edu” <nt246@cornell.edu>

EastCarolinaU BehaviorEvolution

The Balakrishnan Lab at East Carolina University is searching for a Ph.D. student to begin in Fall 2016.

Research in the Balakrishnan lab addresses basic questions in evolutionary and behavioral biology. Most of the work in the lab uses genomic approaches (RNA-seq, population genomics) to better understand the mechanisms of speciation, adaptation and behavior.

The Ph.D. student would be funded for two years under active NSF grants, and for the remaining time under teaching assistantships at ECU. Funded projects in the lab examine the genomic underpinnings of brood parasitic behavior, and the continued development of genomic resources for the study of sexual selection in neotropical manakins (famous for leks and associated crazy courtship displays). The recruited student would have considerable flexibility within these broad areas and study systems to explore independent ideas.

ECU features a very strong group of behavioral and evolutionary biologists and thus provides a rich environment for students interested in these areas. For a full list of faculty, please see: <http://www.ecu.edu/cs-cas/biology/people.cfm> Prospective candidates should have significant experience in either the field, the lab, or computers, as projects will involve some combination of field, computational, behavioral and/or neurobiological work.

To apply please send a C.V. and short description of research interests to: balakrishnanc@ecu.edu

Instructions for the full application to the Ph.D program are located here: <http://www.ecu.edu/cs-cas/biology/doctoralprograms.cfm> More info on the lab is available here: <http://www.rebelmouse.com/-EvolutionPirate/> Christopher Balakrishnan Assistant Professor Department of Biology East Carolina University Howell Science Complex Greenville, NC 27858 252-328-2910 balakrishnanc@ecu.edu www.rebelmouse.com/EvolutionPirate “Balakrishnan, Christopher” <BALAKRISHNANC@ECU.EDU>

EastCarolinaU DiseaseEvolution

PhD Position in Disease Ecology at East Carolina University (ECU): One Ph.D. position is available in the newly formed lab of Dr. Seth Barribeau in the Department of Biology (<http://www.ecu.edu/biology/>) at East Carolina University (Greenville, NC). The Barribeau lab focuses on the evolutionary ecology of host-parasite interactions, working mostly with ecologically important insects like bumblebees. There are a number of potential projects available and the successful applicant will have a major role in determining the direction of the research. For detailed information, please see the following websites: http://www.ecu.edu/cs-cas/biology/-barribeau_seth.cfm and <http://seth.barribeau.com> Enthusiastic, motivated, and curious students are strongly encouraged to apply. Having skills or experience in evolutionary ecology, host-parasite interaction, immunology, or similar areas, as well as proficient writing and speaking skills are preferred. Mad skills in molecular genetics, bioinformatics, or beekeeping would be great, but we will help you work on those. Sense of humor is also a plus. But being a decent, preferably nice, human being is essential. The Department of Biology offers a lively community of researchers to interact with, providing great opportunities for collaboration. Information on the PhD Interdisciplinary Program in Biological Science can be found at <http://www.ecu.edu/idpbs/>. ECU is the third largest campus in the University of North Carolina system and is situated fairly close to the Atlantic coast and Outer Bank Islands, and the Research Triangle. The department has a strong integrative research program with numerous avenues of student support including student scholarships, travel to conferences, and genomics research. Interested students should send a CV, a brief (less than 500 words) description of research interests, and contact information of two references to Dr. Seth Barribeau (barribeaus14@ecu.edu). Interviews

will begin on November 1, 2015 and continue until the positions are filled. Please contact Dr. Barribeau with any questions you may have: Department of Biology, East Carolina University Greenville, NC 27858; barribeaus14@ecu.edu.

Seth Barribeau Assistant Professor: Ecology & Evolution of Infectious Disease Department of Biology Howell Science Complex, Mail Stop 551 East Carolina University Greenville, NC 27858-4353 (252) 328-9810

“Barribeau, Seth” <BARRIBEAUS14@ECU.EDU>

EastCarolinaU Evolution

The graduate program in the Department of Biology at East Carolina University invites applications from prospective PhD and MS students for fall 2016. East Carolina University is the third largest campus in the University of NC system and has an active and well-supported group of faculty working in the areas of ecology and evolution. Currently, we have >70 MS students and >20 doctoral students enrolled in our graduate programs. Students accepted into the Interdisciplinary Doctoral Program in Biological Sciences will receive at least five years of support at a very competitive level. TA-ships are readily available in our two MS programs and Biology faculty members also supervise students in ECU's Coastal Resource Management PhD program. Our faculty members (see below) conduct research across the globe and excellent opportunities exist to work in terrestrial, freshwater, wetland and marine systems.

Our students enjoy living in the affordable community of Greenville, NC and having access to several natural areas, universities and research centers located in central and eastern NC. The Biodiversity Initiative at East Carolina University also provides graduate students with opportunities to participate in journal clubs, workshops, and outreach events and access to high performance desktop computers. In addition to resources within faculty labs, students also have access to a Central Environmental lab, a core genomics facility, and a high performance computing core.

Application deadlines vary with particular programs but students applying early will have a greater chance of receiving financial support. Please visit <http://www.ecu.edu/biology/> to find out more about our department, faculty and graduate programs. In addition to visiting departmental and faculty websites, please contact prospective mentors directly to our director

of graduate studies, Ed Stellwag (stellwage@ecu.edu), for more information. We are happy to arrange visits for competitive prospective students and additional scholarship support may be available for the strongest applicants.

Departmental faculty with expertise in ecology and evolution include:

Marcelo Ardon: Aquatic ecosystem ecology and biogeochemistry. Chris Balakrishnan: Avian evolutionary and behavioral genomics. Seth Barribeau: Evolutionary ecology of hosts, parasites, and symbionts in pollinator and pest insects. April Blakeslee: Conservation biology, marine ecology, parasite ecology, biological invasions ecology and evolution. Michael Brewer: Evolutionary genomics, systematics, and bioinformatics. David Chalcraft: Population and community ecology; ecological aspects of biodiversity. Robert Christian: Coastal ecosystem ecology and network ecology. Erin Field: Marine microbial processes, geomicrobiology, microbial genomics. Carol Goodwillie: Plant mating system evolution, plant population ecology and genetics. Pat Harris: Fish ecology and life history, fisheries management. Jinling Huang: Evolutionary genomics and bioinformatics. Fadi Issa: Neurobiology & Behavior, neurodegeneration. Claudia Jolls: Plant evolutionary ecology and conservation. Dave Kimmel: Plankton ecology. Trip Lamb: Systematics and phylogeography. Joe Luczkovich: Food web ecology and fish bioacoustics. Krista McCoy: Ecological development and physiology. Mike McCoy: Quantitative population and community ecology. Jeff McKinnon: Sexual selection, speciation, mainly in fish. Sue McRae: Behavioral ecology and social evolution in birds. Ariane Peralta: Microbial ecology, wetland ecology, agroecology. Enrique Reyes: Landscape ecology, ecological modeling, coastal management. Roger Rulifson: Fish ecology and fisheries. Ed Stellwag: Vertebrate evo-devo and cis-regulatory network evolution. John Stiller: Molecular evolution and comparative genomics. Kyle Summers: Evolution of color, behavior in poison frogs; evolutionary medicine. Heather Vance-Chalcraft: Community ecology. Terry West: Human impacts on coastal ecosystems. Baohong Zhang: MicroRNA evolution, comparative genomics, and molecular genetics. Yong Zhu: Comparative evolution and molecular functions of hormones and receptors.

“Chalcraft, David” <CHALCRAFTD@ecu.edu>

ETH Zurich Ecology Evolution Modeling

PhD position: Modeling ecology/evolution of a plant pathogen, ETH Zurich

The project

will explore population dynamics of *Zymoseptoria tritici*, an important fungal pathogen of wheat, using eco-evolutionary modeling and field/lab experimentation.

Plant diseases often cause serious yield losses in agriculture. Current chemical and genetic technologies used to manage plant diseases are highly vulnerable to pathogen evolution and are not sustainable. Pathogen evolution is facilitated by the genetic uniformity underlying modern agroecosystems. Thus, there is an urgent need to develop new, efficient and sustainable ways to control plant diseases.

This PhD project intends to make an important contribution towards achieving this goal. The first phase aims at comprehensive characterization of both epidemic and evolutionary factors of the pathogen by combining eco-evolutionary modeling, field/lab experiments and genome sequence analyses. In the second phase the models will be used to predict the rate of pathogen adaptation to disease control and propose optimal spatio-temporal patterns for applications of fungicides and resistant host varieties that can disrupt pathogen adaptation.

Working conditions

Plant Pathology group at the Institute of Integrative Biology, ETH Zurich offers a creative, collaborative research environment and excellent infrastructure (www.path.ethz.ch). Salary is approximately 48000 Swiss francs per year. Zurich is a vibrant, international and green city.

The PhD project is funded for three years by the Ambizione grant from the Swiss National Foundation with a possibility of extension for the fourth year.

Unique training in mathematical modeling, bioinformatics and field/lab experiments increases chances to find a job in academia, industry or governmental agencies.

Requirements

—Master's/diploma in a quantitative discipline (e.g. physics, mathematics or computer science), biology or

agricultural/environmental sciences.

—Strong interest in mathematical/computational modeling in population biology

—Desire to link the models with real-world field experiments and spend about 40% of time doing experimental work

—Excellent communication skills in English

—Programming skills, experience in mathematical modeling or bioinformatics are important, but optional plus points

Application

For more details, please contact Dr. Alexey Mikaberidze by email. Please apply as early as possible, at latest February 1st, 2016. Project start: April 1st, 2016. To apply, please send Dr. Alexey Mikaberidze as a single pdf file

—a motivation letter that describes how your scientific interests and qualifications fit this project (1 page) —a CV —a copy of the MSc certificate —arrange 2-3 letters of recommendation to be sent by referees directly to Dr. Alexey Mikaberidze via email

Alexey Mikaberidze <alexey.mikaberidze@env.ethz.ch>

George Washington U Systematics

Systematics and Herpetology in Washington, D.C.

The Pyron Lab at The George Washington University seeks a doctoral student for the Fall of 2016 who is interested in historical biogeography, phylogeography, and the theory and practice of systematics. This position is available under the new NSF Genealogy of Life project 'VertLife Terrestrial: A complete, global assembly of phylogenetic, trait, spatial and environment characteristics for a model clade.' The position will be based in the Biological Sciences Department at The George Washington University (<http://www.gwu.edu/>).

I am looking for a student with an interest in macroevolution and macroecology, and with superior skills in phylogenetic analysis and models of trait evolution and diversification. Additional background in spatial analysis and informatics tools development is highly welcome. This position will primarily focus on reptiles and amphibians.

Terrestrial Vertebrates comprise ca. 33,000 species with a wide range of life histories and ecological adapta-

tions. The VertLife Terrestrial project will undertake concerted phylogenetic and trait data assembling efforts that will advance the species-level completeness of key evolutionary and ecological attributes. It aims to help establish terrestrial vertebrates as a global model system for macroevolution, macroecology, comparative biology, and global change research. Online analysis and visualization tools are planned that will connect to existing projects such as Map of Life. The postdoc is expected to develop and address macroevolutionary and macroecological questions building on these resources. For additional information see http://www.nsf.gov/news/news.summ.jsp?cntn_id=132716. Graduate students will be part of the Robert Weintraub Program in Systematics and Evolution in the Department of Biological Sciences, a joint graduate program of GWU and the National Museum of Natural History at the Smithsonian. The program at GWU offers fantastic opportunities for anyone interested in systematics and evolutionary biology. In addition to my research, faculty in the department work on a wide variety of topics in evolution. The Weintraub program is affiliated with the Smithsonian's National Museum of Natural History, providing for SI curators to co-advise students, and access to one of the best natural history collections in the world.

If you are interested, please go to my website (<http://www.colubroid.org/>) for more information. Various funding opportunities are available for well-qualified applicants. Experience with molecular, computational, and field collection techniques is an important consideration. Interested persons should email me with a CV, research interests, and GRE scores. Application information is available here: <http://biology.columbian.gwu.edu/apply-now-graduate/> R. Alexander Pyron, Ph.D. Robert F. Griggs Assistant Professor of Biology Department of Biological Sciences The George Washington University 2023 G St. NW, Lisner Hall 345 Washington, D.C. 20052 Phone: 202-994-6616 <http://www.colubroid.org/> rpyron@colubroid.org

Georgia Tech microbe dynamics

Multi-scale microbial dynamics in health and disease.

Grad student positions are available in the Brown lab as part of a recent move to the Georgia Institute of Technology. I am interested in candidates with backgrounds in computational and/or experimental approaches relevant to the study of microbial dynamics across molecular,

ecological and evolutionary scales. Specifically, I am looking for candidates with interests overlapping with the following *research themes*

Bacterial sociality, cooperation, decision-making (regulatory control), quorum-sensing, biofilms, microbiomes, HGT, pathogen emergence, virulence, resistance, novel therapeutics (and ecology/evolution of all the above).

Computational - I am interested in candidates with backgrounds in statistical modeling or bio-informatics in an ecological/evolutionary context. Simulation and analytical approaches are also of interest, if coupled with enthusiasm for biological applications in microbiology / ecology / evolution.

Experimental - I am interested in candidates with backgrounds in either molecular microbiology or ecology/evolution, ideally coupled to one or more of the research themes above (note our primary lab organism is *Pseudomonas aeruginosa**) To learn more, take a look at our website (biology.gatech.edu/people/sam-brown) and recent relevant publications:

Estrela S, Whiteley M, Brown SP. 2015. The demographic determinants of human microbiome health. *Trends Microbiology* 23, 134-141.

McNally L, Viana M, Brown SP 2014. Cooperative secretions facilitate host range expansion in bacteria. *Nature Communications*. 5, 4594.

Cornforth D, Popat R, McNally L, Gurney J, Scott-Phillips T, Ivens A, Diggle SP, Brown SP 2014 Combinatorial quorum sensing allows bacteria to resolve their social and physical environment. *PNAS* 111, 4280-4284.

Allen R, Popat R, Diggle SP, Brown SP 2014 Targeting virulence: can we make evolution-proof drugs? *Nature Reviews Microbiology* 12, 300-308.

To apply, please email a CV, brief description of research interests and how they relate to Brown lab themes (1 page) and the names and contact info for at least 3 references to Sam Brown (sam.brown@biology.gatech.edu), by November 13. Start dates are flexible with the possibility of funded internships over the summer before start of classes.

The School of Biology at Georgia Tech is a dynamic research environment with a strong core of researchers interested in microbiology, social interactions and genomics. The Institute offers exceptional resources for bioinformatics and high-performance computing, and exciting opportunities for cross-departmental collaboration with computational scientists and bio-engineers. Georgia Tech was recently voted one of the best places to work, and Atlanta is consistently ranked among the top ten places to live for young professionals. *Georgia Tech

is a unit of the University System of Georgia and an Affirmative Action/Equal Opportunity Employer and requires compliance with Immigration Control Reform Act of 1986.*

Sam Brown

School of Biology Georgia Institute of Technology Atlanta, Georgia 30332-0230, USA

Office: 2244 ES&T Building, 310 Ferst Drive Office tel: +1 404 385 4506

sam.brown@biology.gatech.edu <http://www.biology.gatech.edu/people/sam-brown> NEW!
PhD Program in Quantitative Biosciences, <http://qbios.gatech.edu> "sam.brown@biology.gatech.edu"
<sam.brown@biology.gatech.edu>

IowaStateU InsectEvolution

A graduate assistantship for a Ph.D. candidate is available in the research group of Aaron Gassmann in the Department of Entomology at Iowa State University (<http://www.ent.iastate.edu/dept/faculty/gassmann/>). Current research within this group focuses on insect resistance management, integrated pest management, agroecology, and interactions between agricultural pest insects and crops producing insecticidal toxins derived from the bacterium *Bacillus thuringiensis* (Bt). Possible research topics addressed through this assistantship could include: dispersal behavior of insect pests, life-history trade-offs that accompany the evolution of insecticide resistance, computer modeling of resistance evolution, and geographic variation in resistance to insecticides by agricultural pest insects. Interested individuals should send a cover letter describing their research interests and career goals, the names and contact information of three references, and a curriculum vitae to Aaron Gassmann (aaronjg@iastate.edu).

Iowa State University is an Affirmative Action/Equal Opportunity Employer.

Aaron Gassmann Associate Professor Dept. of Entomology 17 Insectary Bldg. Iowa State University Ames, IA 50011 Office: 515-294-7623 Lab: 515-294-8675 FAX: 515-294-7406

<http://www.ent.iastate.edu/dept/faculty/gassmann/>
"Gassmann, Aaron J [ENT]" <aaronjg@iastate.edu>

Lausanne Switzerland EvolutionEcol

PhD fellowships at the University of Lausanne (Switzerland)

Each year the University of Lausanne offers competitive PhD fellowships in broadly defined biological sciences, including evolution and ecology. The winners can choose a supervisor among those participating in the program, including many group leaders at the Department of Ecology of Evolution (www.unil.ch/dee). The Department of Ecology and Evolution is one of the strongest centers in evolutionary biology in Europe. It consists of over 20 research groups including about 50 postocs and 70 PhD students; several of those PhD students are winners of the fellowship in previous years. The fellowships are for three years plus a fourth year funded by grants of the supervisor. A Master or an equivalent degree is a prerequisite of being admitted into a PhD program in Switzerland (but the candidates do not yet have to hold a master at the time of application).

Information about the fellowships, requirements and the application procedure can be found under <http://www.unil.ch/ecoledoctoralefbm/en/home/-menuinst/phd-in-life-sciences/fellowships.html> Note that to assure consideration, the application must be sent in paper form by mail and have arrived by October 26, 2015. Even though the above website mentions October 2016 as the starting date, an earlier starting date may be possible.

Lausanne is a medium-sized city on the shores of Lake Geneva, surrounded by a wine growing region (recognized as one of UNESCO Heritage sites) and within one hour of the Alps. It offers a great variety of cultural, recreational and outdoor opportunities.

Tadeusz Kawecki <tadeusz.kawecki@unil.ch>

MaxPlanck Leipzig HumanOrigins

PhD positions in Human Origins

We invite applications for the Leipzig School of Human Origins, an international PhD program of the Max

Planck Institute for Evolutionary Anthropology and the University of Leipzig.

This program provides interdisciplinary training and research opportunities for university graduates who wish to work towards a PhD in anthropology, archaeology, biology, biochemistry, bioinformatics, evolutionary genetics, paleoanthropology, primatology and related fields. Candidates apply for one of the following disciplines of the program:

- 1) Comparative and Molecular Primatology - focusing on the evolution of social and cultural systems in the great apes, as well as other relevant mammals.
- 2) Evolutionary and Functional Genomics, Ancient DNA, Molecular Anthropology and Genome Bioinformatics
 - a. Evolutionary Genomics, Ancient DNA - focusing on the evolutionary and functional genomics of humans and the great apes, as well as the retrieval of DNA from palaeontological remains.
 - b. Molecular Anthropology - focusing on the origin, relationships, history, and migration patterns of human populations.
 - c. Genome Bioinformatics - focusing on computational approaches to the management and analysis of gene expression data.
- 3) Human Paleontology, Prehistoric Archaeology and Archaeological Science - focusing on the study of hominid fossils and archaeological sites. This includes comparative morphological as well as chemical (isotopic) analyses.

Graduate students will be accepted to only one of these areas but will have the opportunity to take part in courses and seminars in all of them. Our PhD program is open for international students and is designed as a 3-year-program. We invite applications from all countries.

Applicants hold a Masters degree, a Diploma or equivalent in one of the above, or related, fields. It is not necessary to hold the degree at the point of application. However, you must have been awarded your degree prior to the start of the program in September 2016.

Candidates have to be fluent in written and spoken English. German is not required but international students will be offered opportunities to take German language courses.

PhD students are supported with a PhD contract ("Max Planck support contract") corresponding to 50 percent of Pay Group 13 of TVöD (Collective Wage Agreement for the Civil Service).

Term of Appointment: Fall 2016 Application Deadline: December 1, 2015

Visit www.leipzig.de for information on living in Leipzig, Germany, in the center of Europe.

Contact Information:

Sandra Jacob Deutscher Platz 6 Leipzig, 04103, Germany Telephone Number: ++493413550122 Fax Number: ++493413550119 Website: www.leipzig-school.eva.mpg.de E-mail Address: leipzig-school@eva.mpg.de

Sandra Jacob <jacob@eva.mpg.de>

MonashU EvolutionaryEcology

Two PhD positions are available to work on themes broadly related to evolutionary ecology and genetics. Using species of *Daphnia* and their associated pathogens as a powerful experimental model, candidates will develop projects that explore the invasion of populations, adaptation to environmental change or the spread of disease.

1) A PhD position is available in combination with Dr Ben Phillips at the University of Melbourne (School of Biosciences). We are looking for a highly-motivated candidate interested in understanding the ecological and evolutionary dynamics of biological invasions. Invasive species, emergent diseases, and malignant growths, are all examples of populations that are increasing in size and invading new territory. The successful candidates will work closely with supervisors to develop projects that explore the eco-evolutionary processes that underpin the invasion of populations or the spread of disease. There are opportunities to design projects that focus on population biology, evolutionary ecology, genetics, and combinations of the above.

2) An open PhD position is available to work on themes broadly related to evolutionary ecology and genetics. Possible projects include thermal adaptation, male-female coevolution, the spread of disease, life-history evolution or ageing, or combinations of the above. Our groups research is broadly themed around understanding the evolutionary genetic of life's big challenges sex, death and disease. Candidates with experience in evolutionary genetics, behavioural ecology or physiological ecology are encouraged to apply, although experience in these areas is not necessary.

Candidates with experience in evolutionary genetics, behavioural ecology or physiological ecology are encouraged to apply, although experience in these areas is not necessary. The starting date can be any time during the first half of 2016. To find out more about the interests of our groups, please visit www.mattdhall.com and blphillipsresearch.wordpress.com.

****Scholarship details****

The PhD stipend is fully-funded for a period of 3.5 years and is open to both Australian/NZ domestic and international students who have completed a MSc or Honours degree. The stipends include all course fees plus approximately \$25,000 AUD per annum tax-free. Funding is guaranteed for project costs, on top of a \$5000 provided for student research and training and including the costs of attending at least one conference. A one off relocation award of \$1,000 is also available to students coming from overseas.

****Application process****

Interested candidates should send their CV and academic transcript, along with a cover letter outlining their research interests and motivation to matthew.hall@monash.edu. Applicants must possess a Bachelor's or equivalent degree with first-class Honours, Master of Science or MPhil. Short-listed candidates will be asked for further information and will be interviewed. Review and selection candidates begins Monday 11th of October with the deadline for scholarship applications at Monash University is October 31 for a 2016 start date.

“matthew.hall@monash.edu”
<matthew.hall@monash.edu>

Muenster RapidEvolution

Graduate position: Muenster (Germany) Role of phenotypic plasticity for rapid evolutionary adaptation

We invite applications for a PhD position in the group of Animal Evolutionary Ecology at the Institute for Evolution and Biodiversity, University of Muenster, Germany (<http://www.uni-muenster.de/-Evolution/animalevolecol/>).

We are seeking a highly motivated student, ideally with a background in evolutionary ecology. The successful candidate needs to have a Master or Diploma in Biology or related subjects. Experience with molecu-

lar or microbiological techniques is advantageous but not required. The successful candidate will work in the fields of experimental evolution and ecological immunology. The project aims at elucidating conditions for rapid adaptation by investigating a prime example of phenotypic plasticity, the invertebrate immune memory (i.e. 'priming'). This topic will be addressed with serial passage experiments of the entomopathogen *Bacillus thuringiensis* in the red flour beetle *Tribolium castaneum* and with experiments that focus on host evolution in relation to immunological plasticity. The research project is part of the DFG funded priority programme Rapid Evolutionary Adaptation: Potential and Constraints (SPP1819), and there will be extensive scientific exchange with the other projects (for more information, see <http://gepris.dfg.de/gepris/projekt/-255619725?language=3Den>).

Working language of the lab is English. PhD students can become member of the Muenster Graduate School of Evolution (MGSE, <http://www.uni-muenster.de/-Evolution/mgse/>). For information on the University of Muenster, see <https://www.uni-muenster.de/en/city>; for information on the city of Muenster see <http://www.muenster.de/en/>. The position is available for 3-years. The salary will be 65% of a E13 TV-L position of the German tariff for public employees. The University of Muenster is an equal opportunity employer and is committed to increasing the proportion of women academics. We also welcome applications from candidates with severe disabilities. A German version of the job description can be found at https://www.uni-muenster.de/Rektorat/-Stellen/ausschreibungen/st_20152509_sk15.html. Interested candidates should send applications via email (please use the keyword 'rapid evolution' as the subject) as a single pdf that is named with the family name of the applicant. The pdf should contain a CV, a list of publications (if available), a short statement of research interests and the addresses of two potential referees. Please send your application to:

Prof. Joachim Kurtz joachim.kurtz@uni-muenster.de

Closing date is October 15th, 2015.

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 / 21027 Phone (direct): + 49 251 83 24661 Fax: + 49 251 83 24668 Room: 109 joachim.kurtz@uni-muenster.de <http://ieb.uni-muenster.de/animalevolecol/people/kurtz> DFG SPP Host-Parasite Coevolution MAA $\frac{1}{4}$ nster Graduate

School of Evolution (MGSE)

“joachim.kurtz@uni-muenster.de” <joachim.kurtz@uni-muenster.de>

NatIUSingapore EvolutionaryBiol

Ph.D. Scholarships in Evolution - National University of Singapore/Yale-NUS College, Singapore

Deadlines for application: November 15 (entrance in August 2016); May 15 (entrance in January 2016).

Yale-NUS College, the first liberal arts college in Singapore, has Ph.D. scholarships available for students interested in pursuing a doctoral degree in the Life Sciences. Doctoral degrees are awarded through the Department of Biological Sciences, National University of Singapore. Faculty listed below are interested in recruiting students for academic year 2016/2017.

- Phyloinformatics and spider evolution (William H. Piel; william.piel@yale-nus.edu.sg)

- Evolution of novel traits and evolution of behavior (Antónia Monteiro; antonia.monteiro@nus.edu.sg)

- Evolution, photonics, and material science of organismal structural colors (Vinod Saranathan, vinodkumar.saranathan@yale-nus.edu)

If interested in pursuing PhD research in these general areas please contact respective faculty (<https://www.yale-nus.edu.sg/about/faculty/>) and visit the web page of the Department of Biological Sciences, National University of Singapore to learn more about the graduate program:

<http://www.dbs.nus.edu.sg/education/-graduates-prospective/index.html> Antonia Monteiro <antonia.monteiro@nus.edu.sg>

PennsylvaniaStateU EvolutionaryGenomics

The Assis lab (<http://www.personal.psu.edu/rua15/-index.html>) at Penn State is recruiting several highly motivated Ph.D. students to start in Fall 2016.

Our lab uses computational approaches to study the

origin of genotypic and phenotypic innovation. We are broadly interested in a number of problems in evolutionary genomics. One current focus of our research is on gene duplication, which is a major contributor of new gene functions. Potential projects related to gene duplication include examining the role of natural selection in the origin of new functions, elucidating the genic and functional targets of natural selection, comparing functions that arise under different evolutionary scenarios, and applying mathematical models to study gene expression evolution. There are also opportunities to study the origin and evolution of small RNAs, enhancers, and other noncoding functional elements in the genome.

The above lists only serve as examples, and candidates interested in alternative research projects in evolutionary genomics are encouraged to apply. Also, note that our lab is solely computational. While prior knowledge of a programming language is not necessary, candidates should have strong quantitative skills and the drive to learn how to program.

If you are interested in joining the lab, please email Raquel Assis (rassis@psu.edu) a current CV and description of your research interests.

In addition, candidates must submit a formal application to one of the following three Ph.D. programs: Biology (<http://bio.psu.edu/graduate-portal/join-our-program>), Bioinformatics and Genomics (<http://www.huck.psu.edu/education/-bioinformatics-and-genomics/apply>), or Molecular, Cellular, and Integrative Biosciences (<http://www.huck.psu.edu/education/molecular-cellular-and-integrative-biosciences/education/molecular-cellular-and-integrative-biosciences/about/for-prospective-students/apply>). Application deadlines for Fall 2016 admission to these programs are in December and January, with earlier applications encouraged.

CAMPUS SECURITY CRIME STATISTICS: For more about safety at Penn State, and to review the Annual Security Report which contains information about crime statistics and other safety and security matters, please go to < <http://www.police.psu.edu/clery/> > , which will also provide you with detail on how to request a hard copy of the Annual Security Report.

Penn State is an equal opportunity, affirmative action employer, and is committed to providing employment opportunities to minorities, women, veterans, disabled individuals, and other protected groups.

rassis7@gmail.com

RiceU EvolutionaryBiology

The Department of BioSciences at Rice University invites applications for admission into our Ecology & Evolutionary Biology Ph.D. program.

BioSciences (<https://biosciences.rice.edu>) is home to a vibrant community of faculty, postdoctoral, graduate, and undergraduate scholars in Ecology and Evolution, Biochemistry, Cell Biology, Genetics and Neuroscience. Our EEB program has particular strengths in animal behavior, population and community ecology, conservation biology, evolutionary ecology, and evolutionary genetics and genomics. The following faculty members are potentially accepting graduate students for Fall 2016:

Amy Dunham (aed4@rice.edu): tropical ecology, conservation biology, evolutionary ecology applied to conservation issues in tropical rainforests. <http://www.owl.net.rice.edu/~aed4/amydunham/>

Scott Egan (scott.p.egan@rice.edu): evolution, speciation, population genetics and genomics, plant-insect interactions, conservation and invasions. <https://sites.google.com/site/scottpegan/>

Volker Rudolf (volker.rudolf@rice.edu): Community, population, & evolutionary ecology, climate change, biodiversity, host-pathogen dynamics. <http://www.owl.net.rice.edu/~volker.rudolf/>

Julia Saltz (julia.b.saltz@rice.edu): Development and evolution of individual differences in behavior, behavioral genetics, evolutionary feedbacks, phenotypic plasticity, learning. <https://saltzlab.wordpress.com>

Yousif Shamoo (shamoo@rice.edu): molecular evolution; experimental evolution; drug resistance; adaptation; microbiology. <http://www.bioc.rice.edu/~shamoo/shamoolab.html>

We offer highly competitive financial support and light teaching requirements for graduate students. We are located in Houston, Texas, an exciting, diverse, and affordable city with world-class opportunities for dining, arts, and entertainment and access to diverse terrestrial and aquatic environments. Rice is located beside one of the countrys largest medical research centers, providing additional opportunities in bioinformatics and genomics. Completed applications should be received by January 10 to ensure full consideration. There is no application fee for US citizens and permanent residents. Prospective applicants are strongly encouraged to contact potential faculty advisors before applying. Complete information about the EEB graduate program,

including application instructions, may be found at: <https://biosciences.rice.edu/Content.aspx?id=3D936>
Scott Egan <scott.p.egan@rice.edu>

SmithCollege ProtistBiodiversity

The Katz Lab at Smith College is seeking a PhD student to join our marine ciliate project starting in the fall of 2016. The goals of the project include elucidating patterns of diversity of ciliates and other protists in near-shore environments and exploring the ecological processes that underlie this diversity. The project is collaborative between Laura Katz at Smith College (<http://www.science.smith.edu/departments/-Biology/lkatz/>) and marine ecologist George McManus at the University of Connecticut (<http://microzooplankton.uconn.edu/>). Work on the project combines field work, high-throughput sequencing, microcosm analyses, community footprints analyzed by DGGE, and both light and fluorescence microscopy. Hence, applicants should have a desire to improve skills in microbiology, molecular biology and bioinformatics.

Research in the Katz lab aims to elucidate principles of the evolution in eukaryotes through analyses of microbial groups, and to assess how these principles apply (or fail to apply) to other organisms. Currently we focus on three interrelated areas: (1) Characterizing evolutionary relationships among eukaryotes; (2) Exploring the evolution of ciliate genomes; and (3) Describing the phylogeography of coastal marine ciliates.

Smith College is a member of the Five College Consortium with Amherst, Hampshire, and Mount Holyoke Colleges and the University of Massachusetts Amherst. Smith College is an equal opportunity employer encouraging excellence through diversity. Hence, Ph.D. students in my lab join through the Organismic and Evolutionary Biology (OEB; <http://www.bio.umass.edu/oeb/>) based at the University of Massachusetts Amherst.

Prospective students should email their c.v. and a brief statement of interest to Laura Katz (lkatz@smith.edu), and pursue the formal application through the UMass link above.

lkatz@smith.edu

SmithCollege SAR Biodiversity

The Katz Lab at Smith College is seeking a PhD student to join a focusing on the biodiversity of the microbial lineages within SAR (Stramenopila + Alveolata + Rhizaria) starting in the fall of 2016. The goals of the project are to characterize the biodiversity of lineages within SAR through a combination of community and genome analyses. The project is collaborative with Chris Lane at the University of Rhode Island (<http://cels.uri.edu/bio/lanelab/>) and Charles F. Delwiche at the University of Maryland (<http://www.life.umd.edu/labs/delwiche/home.html>). Work on the project combines high-throughput sequencing of communities and specific lineages, bioinformatic analyses of resulting data, and some microscopy of target lineages. The Katz lab will focus initially on under sampled lineages within Ciliophora and Rhizaria. Hence, applicants should have a desire to improve skills in microbiology, molecular biology and bioinformatics.

Research in the Katz lab aims to elucidate principles of the evolution in eukaryotes through analyses of microbial groups, and to assess how these principles apply (or fail to apply) to other organisms. Currently we focus on three interrelated areas: (1) Characterizing evolutionary relationships among eukaryotes; (2) Exploring the evolution of ciliate genomes; and (3) Describing the phylogeography of coastal marine ciliates.

Smith College is a member of the Five College Consortium with Amherst, Hampshire, and Mount Holyoke Colleges and the University of Massachusetts Amherst. Smith College is an equal opportunity employer encouraging excellence through diversity. Hence, Ph.D. students in my lab join either through the Organismic and Evolutionary Biology (OEB; <http://www.bio.umass.edu/oeb/>) based at the University of Massachusetts Amherst.

Prospective students should email their c.v. and a brief statement of interest to Laura Katz (lkatz@smith.edu), and pursue the formal application through the UMass link above.

lkatz@smith.edu

Switzerland WhitefishSpeciationGenomics

The Department of Fish Ecology and Evolution (FishEc) located in Kastanienbaum (Lucerne, Switzerland) has a vacancy for a 1 PhD-student in Genomics of Rapid Adaptation.

Speciation research has started to address long-standing questions on the genomic basis underlying and the genome evolution accompanying the speciation process. However, the accurate interpretation of genomic patterns is challenged by a variety of different processes, such as drift, selection, gene flow, and recombination, all acting simultaneously in shaping the genome and contributing to the heterogeneity of divergence observed along the genome. A system like the Swiss whitefish radiation (*Coregonus lavaretus* complex) permits us to assess genomic divergence along a continuum of geographic, genetic, and ecological differentiation, in order to understand which evolutionary processes drive adaptation and divergence and to gain insights on the genomic basis of ecological speciation.

The PhD project advertised here is aiming to build a reference genome backbone and assess the variation in genome structure across whitefish species in Swiss lakes. Another goal will be to investigate the genetic architecture of ecological and reproductive traits differing across whitefish species and to compare patterns of genomic divergence across different sympatric and allopatric species. This will require the development of innovative analysis methods, which make full use of the fantastic study system to enhance our knowledge on the genomic basis of adaptation and speciation.

The successful candidate will have substantial opportunities to develop his or her own research skills and to assist in the supervision of Bachelors, and Master students. The work will consist of the analysis of next generation whole genome data, the development of bioinformatics pipelines and tools, and the interpretation and publication of the results. This study will be carried out in a close collaboration between the Fish Genomics group (<http://www.eawag.ch/en/-department/fishec/main-focus/fish-genomics/>) and the Evolutionary Biodiversity Dynamics group (<http://www.eawag.ch/en/department/fishec/mainfocus/-biodiversity-dynamics/>) at Eawag Kastanienbaum.

Applications are sought from individuals with a profound interest in Bioinformatics and Evolutionary Genomics. Applicants should have earned a MSc-degree (or equivalent) in a relevant field of evolutionary biology, or bioinformatics. Excellent communication skills in English and skills in team work are essential. The duration of the position will be three years, financed by the Swiss National Science Foundation. We are a research department of Eawag (Department of Fish Ecology and Evolution; <http://www.eawag.ch/en/departement/fishec/>) and a division (Aquatic Ecology) of the Institute of Ecology and Evolution of the University of Bern, and the successful candidate will have a unique possibility to take advantage of both these excellent academic environments. The work place is at Eawags Center for Ecology, Evolution and Biogeochemistry in Kastanienbaum, Lucerne, which besides the Fish Ecology and Evolution Department hosts research group from the Departments Ecology and Waters V Research & Management and offers a beautiful workplace at the shores of Lake Lucerne, a friendly international working climate and a strong cross-disciplinary research environment. The successful candidate will be enrolled in the University of Bern PhD-student program. Eawag is an equal opportunity employer. Women are explicitly encouraged to apply to increase their share in science and research. Applications should include a concise statement describing your motivation to work on this research project, curriculum vitae, copies of your academic qualifications and names for two references.

The deadline for applications is 15 November 2015 or until the position is filled. The starting date for the position is anticipated as soon as possible. For further information, please contact Philine Feulner (philine.feulner@eawag.ch; +41 58 765 21 06). We look forward to receiving your application through this webpage, any other way of applying will not be considered. Please click on the link below, this will take you directly to the application form. <https://apply.refine.ch/673277/0401/pub/1/index.html> “Feulner, Philine” <Philine.Feulner@eawag.ch> “Feulner, Philine” <Philine.Feulner@eawag.ch>

TexasAMU ConiferEvolutionaryGenomics

Ph.D. POSITION IN CONIFER EVOLUTIONARY GENOMICS

A Ph.D. position is available in the Casola Lab at Texas A&M University <http://agrilife.org/casolalab/>

We study the evolution of genome size and gene content in conifers and other gymnosperms using a blend of bioinformatics and wet lab approaches. One of our primary goals is to understand the evolutionary dynamics of transposable elements (TEs) in conifers, with a particular emphasis on horizontal transfer events, TE-mediated gene regulation, and host silencing of TEs. We are also investigating the origin of conifer-specific genes by analyzing patterns and mechanisms of gene duplication. At the population level, we use next-gen data sets to identify gene duplication and gene loss events in loblolly pine and other conifers.

Prospective students may be accepted through the Ecosystem Science and Management Graduate Program (<http://essm.tamu.edu/academics/graduate/>), the Ecology and Evolutionary Biology Doctoral Degree Program (<http://eeb.tamu.edu/>) or the Genetics Graduate Program (<http://genetics.tamu.edu/>) at TAMU.

Experience in comparative genomics, analysis of next-gen sequencing data, and programming with common bioinformatics languages (Python, C, Perl, R, etc.) is preferred. Prospective students are encouraged to contact Dr. Claudio Casola (ccasola@tamu.edu) and to submit a CV and a brief statement of interest before formally applying to any Graduate Program.

Claudio Casola, Ph.D. Assistant Professor Department of Ecosystem Science & Management 495 Horticulture Rd. College Station, TX 77843 Phone: (979) 845-8803 email: ccasola@tamu.edu <http://agrilife.org/casolalab/> “ccasola@tamu.edu” <ccasola@tamu.edu>

TexasAMU Evolution

CALL FOR APPLICATIONS: The Ph.D. program in Ecology & Evolutionary Biology (EEB) at Texas A&M

University is soliciting exceptional applicants for a Fall 2016 start date. As one of the largest and most productive EEB faculties in North America, we offer a world-class training program that incorporates the various fields relevant to EEB, ranging from evolutionary genomics to animal behavior to landscape ecology. Students embark on research with an identified faculty sponsor on arrival, and spend the first academic year taking a sequence of EEB core courses, as well as a between-semester field course in the Sierra Madre.

EEB and TAMU offer ample opportunities for professional development, including weekly EEB seminars and journal club, the semi-annual Open Source for Open Science computational workshops, the annual Ecological Integration Symposium, and the summer graduate field course in Big Bend National Park. TAMU offers field research opportunities and structured field courses around the world, including the Soltis Center in Costa Rica, the Amazon Field School in Peru, and the CICHAZ research station in central Mexico. Students also have access to field and experimental laboratories across the state of Texas. The TAMU campuses in College Station and Galveston offer state-of-the-art research facilities including core facilities for genomics, microscopy, and stable isotopes; supercomputing and computing cluster facilities; and internationally-renowned biological collections.

College Station/Bryan is a diverse, cosmopolitan college town in the Post Oak Savanna of central/east Texas. The cities of Austin and Houston and their international airports are about 1 \hat{A} ¹/₂ hours away.

Please contact an individual faculty sponsor (<http://eeb.tamu.edu/people/faculty/>) prior to applying, as they will have to submit a formal letter of sponsorship in order for your application to be evaluated. Please visit eeb.tamu.edu or contact <http://eeb.tamu.edu/contact-us/> for more information. For full consideration, applications for Fall 2016 should be received by December 15. We are committed to building a diverse community and strongly encourage applications from women, minorities, veterans, individuals with disabilities, and LGBTQ individuals.

Sincerely,

Mariana Mateos, Ph.D. Associate Professor Department of Wildlife and Fisheries Sciences (wfsc.tamu.edu) Ecology and Evolutionary Biology PhD. Program (eeb.tamu.edu) Faculty of Genetics (genetics.tamu.edu) Texas A&M University 320B Heep Laboratory Building 2258 TAMUS College Station, TX 77843-2258 Phone(office/lab): 979-847-9463 Fax 979-845-4096 Email: mmateos@tamu.edu <http://people.tamu.edu/~mmateos> My ResearcherID:

<http://www.researcherid.com/rid/B-5235-2008>
Mariana Mateos <mmateos@tamu.edu>

TrinityCollege Dublin EvolutionRootEndophytes

PhD studentship School of Natural Sciences, Trinity College Dublin, the University of Dublin

ESR8: Isolation and characterisation of novel fungal root endophytes from wild relatives of barley and wheat for resistance to Fusarium and Gaeumannomyces

This studentship (ESR8) is part of an EU training programme called CerealPath that offers a total of 15 studentships and an exciting and diverse range of training experiences <http://cerealpath.eu/opportunities/early-stage-researcher-opportunities/> Overview Research will focus on the isolation and characterisation of novel fungal endophytes from the wild relatives of barley and wheat for resistance to the fungal pathogens Fusarium and Gaeumannomyces. There are immediate areas of research and training which will be critical in determining the usefulness of these and other endophytes as inoculants for field crops. This includes investigations into how best to develop a commercial product, the maintenance or loss of fungal competence over time, the most effective inoculant delivery methods, and determination if they can offer a safe and viable economic alternative or supplement to traditional chemical crop treatments.

Objectives The objective of this project will be to train ESR8 to screen wild relatives of barley and wheat in NW Europe (partner countries) for novel endophytes and to evaluate their impact on disease resistance, mode of action and potential for commercial application.

Research Affiliation and Supervision This project will be based at Trinity College Dublin and the researcher will be a registered Doctoral candidate at Trinity College Dublin. The project will be carried out under the principal supervision of Professor Trevor Hodkinson, with input from Mr Donal Fitzgerald (Goldcrop), Professor James Brown and Dr Hans Jorgensen (UCPH), Dr Birgit Jensen, Professor David Collinge and Mr Brian Murphy (Trinity College Dublin).

Secondment Details This project will involve a research secondment of 2 months at University College Dublin, to examine endophyte isolation, a further 2 months at Kobenhavns Universitet, to work with ESR6 to deter-

mine endophyte mode of action, and finally 3 months with Goldcrop to investigate commercial application of endophytes as a seed treatment.

Eligibility Criteria This position is based in Ireland, which means that any potential candidates for this position cannot have lived in the Ireland for more than 12 months out of the 36 months up to the CerealPath Reference Date.

Informal enquiries about this ESR8 studentship should be sent to Trevor.Hodkinson@tcd.ie

Please apply via the following portal. <http://cerealpath.eu/apply/login/> Closing date: 14 October 2015 or until filled

Trevor Hodkinson Associate Professor Botany / School of Natural Sciences Trinity College Dublin, the University of Dublin Dublin 2, Ireland

+353 1 896 1128 Trevor.Hodkinson@tcd.ie

<https://www.tcd.ie/Botany/staff/people.tcd.ie/hodkinst> <http://scholar.google.com/citations?user=3DOphAvBgAAAAJ&hl=3Den>

<https://twitter.com/TrevorHodkinson> Trinity College Dublin, the University of Dublin is ranked 1st in Ireland and in the top 100 world universities by the QS World University Rankings.

HODKINST@tcd.ie

UAmsterdam Evolution

Job description The department of Ecological Science, section Animal Ecology of VU University Amsterdam has a PhD-position available for the project

'The impact of anthropogenic noise on species interactions'

Animals use environmental information to make important decisions, such as where to forage or whom to mate with, but this decision-making can be hampered by noise. Invertebrates provide many crucial ecosystem services, such as plant pollination or pest control, but little is known how noise impairs their perception and thereby their performances. How does anthropogenic noise coming from traffic or heavy industry affect communication or predator-prey interactions among invertebrate communities? And how does noise affect ecological services such as restraining plant herbivores? We are searching for a PhD-student who will address these topics and who will i) quantify sound production and propagation in

natural and anthropogenic impacted habitats; ii) quantify the use of signals and cues by different species under various noise regimes; iii) assess the impact of noise on ecological interactions, such as predators and prey; iv) predict the impact of noise on ecosystem services and test these predictions in a field-based experiment.

Tasks - execute the scientific research as detailed in the project description; - publish results in scientific journals as well as in a thesis; - assist in undergraduate courses given within the Department of Ecological Science; - adhere to the PhD educational program as prescribed by the Department.

Requirements - a master's degree, preferably with a strong interest in ecology, evolution, and/or behavior; - experience with (invertebrate) field experiments, behavioral studies, and/or sensory ecology; - excellent ability to communicate in both written and spoken English; - good social skills, ability to work independently and strong scientific motivation;

Further particulars The initial appointment will be for a period of 1 year. After satisfactory evaluation of the initial appointment, it can be extended to a total duration of 4 years. You can find information about our excellent fringe benefits of employment at www.workingatvu.nl. Salary Payment will be according to the standard regulations, from 2,042.- gross per month in the first year up to 2,612.- gross per month in the fourth year based on a full-time appointment.

Application For additional information please contact: dr. W. Halfwerk (w.h.halfwerk@vu.nl) or prof. dr. J. Eilers (j.eilers@vu.nl). Upon request, applicants can obtain a full description of the project from dr. W. Halfwerk. Applicants are requested to write a letter in which they describe their abilities and motivation, accompanied by a curriculum vitae and two reference names. Applications - in a single pdf-file only - should be sent to: tineke.reus@vu.nl with the vacancy number in the subject before 15 November 2015.

VU University Amsterdam is one of the leading institutions for higher education in Europe and has teaching facilities for 25.000 students. The Department of Ecological Sciences (DES) answers fundamental ecological questions at the full array of hierarchical levels: from molecular ecology to ecosystem research. The department comprises a dynamic community of researchers and provides an excellent research environment with state-of-the-art facilities and high quality training.

"Halfwerk, W.H." <w.h.halfwerk@vu.nl>

UBasel EvolutionMatingBehaviour

PhD position available on the “Evolution of Mating Behaviour and Phenotypic Plasticity in Simultaneous Hermaphrodites”

A 3-year full-time PhD position, funded by the Swiss National Science Foundation (SNSF), is available at the Zoological Institute, University of Basel, Switzerland (<http://evolution.unibas.ch>). Ideal starting date January 2016 (with some flexibility).

Research in the Schärer Lab (<http://evolution.unibas.ch/scharer/>) focuses on evolution of reproduction in hermaphrodites, covering sex allocation, sexual selection and sexual conflict, using free-living flatworms of the genus *Macrostomum* as models. Their small size and transparency permits the study of reproductive structures and processes in vivo, allowing insights into reproductive allocation, and pre- and post-copulatory processes. We use a diversity of approaches, including laboratory experiments, field work, developmental biology, transgenesis, genomics, phylogenomics, and the comparative method. Moreover, *Macrostomum lignano*, whose genome was recently published (Wasik et al. 2015, PNAS), is also used to study stem cell biology, regeneration and many other questions.

The available PhD position is embedded in a larger project aimed at establishing an extensive comparative dataset in the genus *Macrostomum* (containing >150 species), which also includes another PhD student, a part-time technician, and in a second phase a postdoc. It builds on earlier results that have shown intriguing convergent evolution in a range of morphological and behavioural traits (Schärer et al. 2011, PNAS).

The PhD candidate’s main focus involves participation in international field collection trips, description of interspecific variation in mating behaviour, establishment and maintenance of laboratory cultures of multiple species, and experimental work to study phenotypic plasticity in reproductive traits. Moreover, there is scope for the candidate to pursue own interests within this study system.

The successful PhD candidate will be independent, hard-working, inquisitive, creative, and collaborative. Moreover, he/she should have a keen interest in evolutionary biology and must be willing to learn new techniques and

statistical approaches. Documented skills in maintaining cultures of aquatic invertebrates is a clear advantage, as are experience with behavioural assays and laboratory experimentation. A MSc or equivalent education is required for this position the SNSF salary is very handsome.

The Schärer Lab belongs to the Zoological Institute, a stimulating and highly international research environment with English as the primary language (<http://evolution.unibas.ch/research.htm>). The Institute has a strong background in experimental design, statistics, population genetics, quantitative genetics, genomics and molecular biology. So it is an ideal place for a PhD candidate interested in evolutionary biology. Basel is the third largest city in Switzerland and attractively situated at the foot of the Jura mountains. It has the beautiful river Rhine, and directly borders Germany and France, thus offering rich culinary, cultural, and outdoor activities.

To apply, please send a letter of motivation, a CV, contact details of 2 referees, and a copy of your MSc-thesis (if available) to lukas.scharer@unibas.ch (electronic applications in a single file preferred). Review of applications starts on October 31, but applications will be considered until the position is filled.

Lukas

PD Dr. Lukas Scharer Evolutionary Biology Zoological Institute University of Basel Vesalgasse 1 4051 Basel Switzerland

Tel: ++41 61 267 03 66 Fax: ++41 61 267 03 62 Email: lukas.scharer@unibas.ch Homepage: <http://evolution.unibas.ch/scharer/index.htm> “lukas.scharer@unibas.ch” <lukas.scharer@unibas.ch>

UBath 2 ComparativeGenomics

Two four-year fully funded PhD positions are available in the lab of Laurence Hurst at the Milner Centre for Evolution, University of Bath, funded by an ERC Advanced grant. For both projects prior experience in bioinformatics is advantageous but not essential.

Project 1: Is selection stronger on error proofing when populations are small: a comparative genomic analysis

<http://www.findaphd.com/search/-ProjectDetails.aspx?PJID=3D66491>

Classically we assume that selection is less efficient when popula-

tions are small. This is thought to explain why species with small populations have larger genomes (including larger intergene space and larger introns) owing to the accumulation of weakly deleterious insertions. Experimental evidence from analysis of splice control suggests that this accumulation should in turn lead to higher rates of error prone splicing. Do then large genomes adapt to these high error rates and are other sorts of errors also affected? This project considers this problem using splice control signals, intronic stop codons and 3UTR frameshift stops as possible exemplars.

Project 2: The evolution of new genes and new gene expression

<http://www.findaphd.com/search/-ProjectDetails.aspx?PJID=3D66493> Where does novelty come from? How for example do genes evolve new expression profiles and how do new transcripts come about? We recently showed that the expression change of one gene is coupled to that of its neighbours (piggy-backing) in humans and in yeasts. Moreover, we revealed that endogenous retroviruses affect the expression of neighbours but also generate new chimaeric genes, some of which may be human-specific new protein coding genes. This project will address the following issues: Is piggy-backing a common mode of gene expression evolution and what determines its genomic span? How, if at all, are down-regulated genes compensated? Can we employ patterns of insulated expression change (no piggy backing) to define genomic safe zones for gene therapy? How does HERV-H drive piggy-backing and how does it act as a source of novel transcription and functional chimeric genes. In the first instance we shall concentrate on the de novo gene ESRG.

Informal enquiries to Laurence Hurst
(l.d.hurst@bath.ac.uk)

Laurence D. Hurst FMedSci FRS Professor of Evolutionary Genetics The Milner Centre for Evolution Department of Biology and Biochemistry University of Bath Bath Somerset, UK BA2 7AY

Tel: +44 (0)1225 386424 Fax: +44 (0)1225 386779 Email: l.d.hurst@bath.ac.uk Website: <http://people.bath.ac.uk/bssldh/LaurenceDHurst/Home.html>
Laurence Hurst <L.D.Hurst@bath.ac.uk>

UBristol ClimateAdaptation

Applications are invited for a PhD studentship eligible for NERC funding at the University of Bristol, UK

(1) Evolutionary rescue in the face of climate change? Testing for local adaptation at the southern range margins of European butterflies (Supervisors; Dr Jon Bridle, University of Bristol, Dr Rob Wilson, University of Exeter)

We are looking for a highly-motivated student to test the ecological effects of climate change on butterfly communities, and the role of evolution in increasing their resilience. Profound effects on ecosystem function are predicted as climate change generates rapid shifts in species' geographical distributions. Many organisms have already contracted their ranges at equatorial margins to higher altitudes, and expanded their ranges as their poleward margins become increasingly habitable. However, these responses seem limited by rates of evolution. Although most generalist species have shifted their ranges, most specialist species remain trapped in increasingly fragmented habitats, apparently because they cannot adapt to local conditions at their ecological margins. Defining critical levels of environmental change therefore depends on understanding how easily (and how quickly) evolutionary rescue can occur at ecological margins.

This project will explore evolution in European butterflies at their southern (contracting) margins in comparison to that observed at their northern (expanding) margins. Adaptive divergence may be easier at contracting margins because population sizes are initially high, making genetic variation locally available. By contrast, at expanding margins evolution may require the spread of novel mutations from distant populations, or may cause the rapid loss of adaptive variation. You will: (i) conduct butterfly and host plant surveys in central Spain, and comparing their thermal niches to our previous data; (ii) Use population genomics to test for local adaptation at contracting range margins in comparison to those involved in poleward expansions; (iii) conduct field transplant experiments to test for adaptive divergence in maternal behaviour and larval survival and and by testing larval growth rate at different altitudes.

You will be based at the University of Bristol, with periods at the University of Exeter, and two field seasons in Madrid. You will receive expert training in

population ecology and genomics, spatial ecology, and the application of evolutionary theory to conservation policy.

Please see: <http://nercgw4plus.ac.uk/phd-projects/future/2016-17-projects/> for more details of this project, and the application procedure.

This studentship will be competitively awarded, and fully funded, and are open to all EU applicants. However, funding for living costs as well as tuition fees is only available for UK students.

The deadline for applications is 8th January 2016.

Please contact Jon Bridle (jon.bridle@bristol.ac.uk) or Rob Wilson (R.J.Wilson@exeter.ac.uk) for informal discussion.

Dr Jon Bridle School of Biological Sciences Room 2A03, Life Sciences Building, University of Bristol, BS8 1TQ Tel. (+44) 117 394 1174 (x41174) jon.bridle@bristol.ac.uk <http://www.bristol.ac.uk/biology/people/jon-r-bridle/> Jon Bridle <Jon.Bridle@bristol.ac.uk>

UCalifornia Davis InsectPhylogenetics

Graduate student - Insect Phylogenetics

Karl Kjer is setting up a lab at the department of Entomology and Nematology at UC-Davis this fall (2015). He has support for a graduate student working on insect phylogenetics for next fall (2016). The Kjer lab has been involved in Sanger sequencing, but has moved to phylogenomics with high throughput sequencing. These “big data” efforts require familiarity with computers. Kjer works on Trichoptera phylogenetics, as well as deep insect phylogenetics, and the barcode of life initiative. Check his website for further details on Kjers research program. <http://kkjer.faculty.ucdavis.edu/research/> Experience in the lab is not important, as this can be taught. Familiarity with computer code is a plus, as this is increasingly important, and takes a long time to learn. Although grades and scores are not everything, undergraduate GPA and GRE scores will play a role in selection. Publications and awards are important. Most important is a passion for learning: Whether it is insects, or evolution and phylogenetics, or bioinformatics, I am looking for passionate interest. Applicants who have applied for funding will be evaluated highly. Please see NSF's website <https://www.nsfgrfp.org/> (the deadline

for this is Oct. 26: you should apply regardless of where you end up, as these things indicate initiative.) Seeking other sources of support is also important. To clarify, I have support, but those who apply for alternative sources would be highly ranked.

The Entomology and Nematology department at UC Davis is an interactive and highly ranked program, in a wonderful place to live <http://entomology.ucdavis.edu/>. Kjer has an endowed position with funds to support his research. The Kjer lab is generally small, and students are financially supported. The downside of that is, the position is highly competitive. Please apply to the graduate program directly. <http://entomology.ucdavis.edu/Graduate/> Karl Kjer <kkjer@icloud.com>

UCLouvain Biodiversity

PhD student position in ecology at Université catholique de Louvain, Louvain-la-Neuve, Belgium

Biodiversity-Ecosystem functioning in a ciliate's world: how inter-individual variation shapes ecosystem functions in the face of stress

Research Environment: UCL is a multidisciplinary university situated in Louvain-la-Neuve (French-speaking Southern part of Belgium). Its Earth & Life Institute regroups around 450 people performing research in various themes linked to earth and life sciences, including its Biodiversity section, a group of 7 teams, each led by a professor focusing their research on ecology, evolution and biodiversity. The Quantitative Conservation Biology team (www.uclouvain.be/quant-cons-biol), led by Prof. Nicolas Schtickzelle, focuses on viability and dynamics of (meta)populations in a context of biodiversity conservation. Our research aims to study, quantitatively and on model systems, the effect of major perturbations on species viability; the two main research axes are based on natural butterfly metapopulations in the wild, and experimental microcosms of unicellular organism in the lab. The project will be co-supervised by Prof. Frederik De Laender, University of Namur (French-speaking Southern part of Belgium), PI of the lab of environmental ecosystem ecology (www.eecology.eu). Frederik is currently supervising a team of 8 PhD students working on community and ecosystem ecology and ecotoxicology using models and microcosm approaches. A main research area this lab is active in is the relationship between biodiversity, ecosystem functioning, and environmental stress exerted by toxic chemicals.

Research summary: Despite the huge body of the research on the relationship between biodiversity and ecosystem functioning, we still do not have a clear understanding of the mechanisms underlying it. In particular, biodiversity is often equated with species richness, and the need to understand the effects of functional diversity on ecosystem functioning is pressing. Moreover, studying the inter-individual variation in functional traits will facilitate understanding the key processes behind biodiversity-ecosystem functioning relationships. We propose a PhD project focused on investigating how functional diversity measured at the individual level affects multiple ecosystem functions. In the second phase of the project we will ask how effects of several abiotic stressors (salt, pesticides) affect functional biodiversity, and thus ecosystem functioning. These questions will be addressed using a highly flexible microcosm laboratory system with a ciliate species, which in our lab is represented by 44 strains (genetic clones) differing in major functional traits, in particular mobility and morphology. We aim exploiting such diversity of functional traits to inspect their effect on several ecosystem functions, e.g. biomass, dissolved oxygen and productivity. The project also includes a strong modeling component. First, the effect of intraspecific functional diversity (i.e. inter-individual variability in trait attributes) on ecosystem functioning will be synthesized with analytically tractable models. Second, the effect of the selected stressors on these traits will be included. More information about our past research using the *Tetrahymena* microcosms or on the developed modeling techniques can be found in our publications, available on request if you do not have online access to them.â

Profile: * European (300 ECTS) MSc diploma in biology, bioengineering or a related field. Other diplomas might qualify provided they allow entering the PhD programme in the university that delivered it. * Some research experience, and/or publications, in ecology-evolution- biodiversity are an asset. * Experience with ecological modelling and/or microcosm experiments is an asset. * Strong motivation and commitment to pursue a research to finish a PhD thesis in 4 yr. * Autonomous but willing and able to play as an interactive team player. * Good knowledge of scientific English, written and spoken. * Knowledge of French is not necessary (scientific activities are performed in English) but may help for administrative aspects.

We offer: * 2 yr of salary (tax-free PhD grant). A PhD thesis is normally completed in 4 yr in Belgium. Funding is secured for the first 2 yr, but the successful applicant is expected to apply to PhD grant calls to extend his/her grant, under the supervision of Prof. Nicolas Schtickzelle. Several options are available (e.g. FRIA

and FNRS (www.fnrs.be) offer 1 call per yr, each), and our past record of success rate is high. * A pleasant and stimulating working environment with a dynamic supervision team. The PhD thesis will be officially supervised by Prof. Nicolas Schtickzelle, is integrated in the framework of a

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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>

UEdinburgh 2 Evolution

Dear prospective PhD students,

Two Phd projects in my lab (<http://jarrod.bio.ed.ac.uk/-jarrod.html>) are available, starting in the autumn of 2016.

The first project seeks to understand how patterns of selection and inheritance change when an individual's phenotype is partly determined by the actions of other individuals, particularly kin. The project is mainly empirical, and will involve experimental manipulations in a wild population of blue tits close to Edinburgh. However, there is scope within the project to explore both theoretical and statistical aspects. More details can be found at:

<http://www.findaphd.com/search/-projectdetails.aspx?PJID=67311> The second involves working with very large data bases collected by citizen scientists on the spawning phenology of the common frog, together with genetic data collected by the student in collaboration with citizen scientists. The aim is to understand the relative magnitudes of local adaptation and gene-flow in shaping how frogs respond to spatial and temporal differences in the climate. The work will involve both empirical and theoretical aspects, and more details can be found at:

<http://www.findaphd.com/search/-projectdetails.aspx?PJID=67312&LID=3300> Unfortunately, the UK funding system is not very fair to non-UK applicants, but the University of Edinburgh does have positions for non-UK applicants. They tend to be competitive, but evolutionary biology has been successful in most years. For those interested in the project, it is best to send me an email

(j.hadfield@ed.ac.uk) before formally applying, and so we can talk about the project. The deadline for the formal application is 7th December, so potential candidates should try and contact me within 2 weeks.

Kind Regards,

Jarrold Hadfield

– The University of Edinburgh is a charitable body, registered in Scotland, with registration number SC005336.

“j.hadfield@ed.ac.uk” <j.hadfield@ed.ac.uk>

UEdinburgh 2 SexualConflictHaplodiploidy

I would like to advertise two PhD projects at the University of Edinburgh.

Advisory team: Dr. Laura Ross (Edinburgh), Dr. Konrad Lohse (Edinburgh), Dr. Andy Gardner (st Andrews) and Dr. Lyn Cook (University of Queensland)

Project 1: Intralocus sexual conflict and genome evolution in haplodiploid organisms

Sexual conflicts result from a clash of interests between the sexes [1]. In many cases, this battle is fought at the level of the gene: males and females may differ with respect to which version of a gene maximizes their Darwinian fitness. Whilst the effects of such intralocus sexual conflicts have been studied intensively in many organisms, the vast majority of studies have focused on species with classical, diploid sexual reproduction. However, as many as 15% of animal species exhibit an alternative, haplodiploid mode of inheritance. In such species, mothers monopolize the production of male offspring, either by asexual production of sons or by producing sons that eliminate their father’s genome after the zygote stage [2]. This asymmetrical mode of inheritance is likely to affect the outcome of intralocus sexual conflict. Specifically, as alleles that favour male fitness cannot be passed on directly from fathers to sons, sexual conflicts may be resolved in favour of females [2].

The aim of this project is to study the fate of alleles under intralocus sexual conflict in a range of haplodiploid taxa. Studying such exceptions to the general rules of reproduction provides illumination of the fundamental principles of evolutionary genetics (see [3] for a recent comparable example).

This project will combine laboratory experiments, gene

expression studies and genome analyses. We will focus particularly on springtails and fungus gnats, as males in these species carry and express their father’s genomes, but do not pass them on to their offspring. In addition, these species still retain recognizable sex chromosomes, which enables informative sex chromosome / autosome comparisons (e.g. [3] for a similar approach). These experimental approaches will be combined with comparative phylogenetic analyses and the development of novel evolutionary theory, according to the interests of the student. The project is cosupervised by Dr. Gardner (University of St. Andrews) a leading mathematical biologist whose works spans a wide range of topics in theoretical biology and genetics. The proposed project strongly rest upon this collaboration as, on the one hand, formalization of the relevant theoretical hypotheses is currently lacking and, on the other hand, empirical work is required for estimation of key model parameters. The candidate will be based primarily in Edinburgh, as required by the empirical work, but will spend 1-2 days per month in St. Andrews for the duration of the project, as well as two 1-2 month intensive visits to the Gardner lab in years 2 and 3.

[1] Bonduriansky, Russell, and Stephen F. Chenoweth. “Intralocus sexual conflict.” *Trends in Ecology & Evolution* 24.5 (2009): 280-288.

[2] De la Folia, Andres G., Stevie A. Bain, and Laura Ross. “Haplodiploidy and the reproductive ecology of Arthropods.” *Current Opinion in Insect Science* (2015).

[3] Jaquiry, Julie, et al. “Masculinization of the X chromosome in the pea aphid.” *Plos Genet* 9 (2013): e1003690.

Project 2: Sexual conflict and the loss of paternal genes in a group of Australian insects

In thousands of insects reproduction involves “Genomic exclusion”, where males discard the chromosomes they inherited from their father (Paternal Genome Elimination, PGE). This unusual type of reproduction gives rise to sons that inherit genes from both their parents, but in which genes inherited from their father are suppressed and eliminated. As a result, males do never pass on any genes from their father (Gardner & Ross, 2014; Ross et al.) Until now, the lack of suitable insect study systems has made it difficult to understand PGE: It is absent in established model systems such as *Drosophila* and tends to be evolutionarily conserved, making comparative studies difficult. However we recently identified a group of Australian scale insects that vary in the way they reproduce, with some species eliminating their father’s genes while others do not. This group therefore provides a rare chance for acquiring new insights into the way this peculiar type of reproduction evolved as

well as the way it is accomplished.

The main questions addressed in the project are why and how males in some species eliminate the genes they inherit from their fathers, while others do not. Understanding this will give general insights into why reproduction is so variable across the tree of life.

The proposed project will study the reproduction of a group of insects that is found exclusively in Australia and feeds on eucalyptus trees. The project on one hand will involve sampling and determining the reproductive strategy of a large number of species as well as determine

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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>

UEssex ClimateAdaptation

Dear All

Please find below exciting details of one PDRA and two PhD positions currently available in Alex Dumbrell's group, Essex, UK. The positions are part of a Large NERC Grant that is examining the Impacts of global warming in sentinel freshwater systems: from genes to ecosystems, led by Guy Woodward.

The 4yr PDRA position will examine the molecular microbial ecology of natural and experimental freshwater systems responding to climatic changes using a range of next generation sequencing approaches - deadline 31st October

<http://www.jobs.ac.uk/job/ALZ323/post-doctoral-research-officer-molecular-microbial-ecology/> http://jobs.essex.ac.uk/fe/-tpl_essex01.asp?sJ515F4E5A565B1A&jobid537,6936522321&key1295353&cG724765348658&pagestamp=seyusvpwsqepiphnm

The 1st 4yr PhD (joint with Imperial College London and Bangor University) will be Using Thermal Niche Theory to Predict Community Dynamics in Freshwater Ecosystems, deadline 31st October

<https://www.essex.ac.uk/bs/pg/studentships/> <http://www.findaphd.com/search/ProjectDetails.aspx?PJID=66515&LID=2363> The 2nd 4yr PhD (joint with University of Exeter and Queen Mary University

London) will be examining The Role of Thermal Adaptation in Constraining Long-term Biogeochemical Responses to Global Warming, deadline 31st October.

<https://www.essex.ac.uk/bs/pg/studentships/> <http://www.findaphd.com/search/ProjectDetails.aspx?PJID=66523&LID=2363> We are looking to build a strong team as part of an international, interdisciplinary project to deliver leading research in freshwater ecosystems and so please do distribute the opportunities to anyone who may be interested in applying for these positions.

For further information please contact Dr Alex Dumbrell (adumbrell@essex.ac.uk) in the first instance.

Many thanks and best wishes Alex Simon Creer

Senior Lecturer

Molecular Ecology and Fisheries Genetics Laboratory

School of Biological Sciences

Environment Centre Wales

Bangor University

Gwynedd

LL57 2UW

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Fax: +44(0)1248 382569

web: <http://mefgl.bangor.ac.uk/si.php> Skype: spidey-creer Twitter: @spideycreer

Rhif Elusen Gofrestredig 1141565 - Registered Charity No. 1141565

Simon Creer <s.creer@bangor.ac.uk>

UFlorida EvolutionAnts

Where: UFlorida.Gainesville What: AntEvolutionaryEcology

PhD in evolutionary ecology of ants at the University of Florida. The Lucky lab at UF is recruiting graduate students for Fall 2016. The general focus of the position will be on the impact of native and exotic ant biodiversity on ecosystems. Students interested in joining the lab will have the opportunity to develop their own research focus in this area. Relevant topics include systematics, population genetics, symbiosis and community phylogenetics. Experience with the following is an asset: insect classification, collections management,

morphological or molecular systematics, bioinformatics, fieldwork. Applicants with academic interest in evolutionary processes in social insects or invasion ecology are especially encouraged to apply.

Qualifications: *Demonstrated ability to complete projects and publish results. *Master's degree in entomology, ecology and evolutionary biology or relevant biological science. *Competitive GRE scores required; Minimum GPA of 3.5. *Proficiency in English (written and oral) communication. Interested candidates should send CV, statement of interest and names and contact information of three references to alucky@ufl.edu with the subject header PHD POSITION. Deadline is Nov 15, 2016. Start date in Fall 2016. Dr. Andrea Lucky. University of Florida Entomology/Nematology. Gainesville, FL 32611-0620, USA. Email: alucky@ufl.edu. Website: www.andrealucky.com

UFlorida Evolution Fighting Behavior

Graduate student position in the evolution of fighting behavior and animal weaponry at the University of Florida starting Fall 2016

Fascinated by behavioral diversity? Intrigued by the evolutionary interplay between behavior and morphology? The successful applicant will work on the evolution of fighting behavior and animal weaponry using insects in the family Coreidae (the leaf-footed bugs). This insect family has impressively diverse hind legs that are used as weapons in male-male contests over females and territories. The student will have considerable freedom to choose a research direction in this outstanding research system.

More information on the lab and research can be found at www.millerlab.net. Applicants should be motivated, independent (and yet a team player), and have previous biological research experiences. Excellent grades and scores will be an advantage.

The University of Florida has a strong community of evolutionary biologists (<http://evolution.group.ufl.edu/>). Prospective students may have the option to apply to the Entomology Program (<http://entnemdept.ifas.ufl.edu/>), Interdisciplinary Ecology Program (<http://snre.ufl.edu/>), Genetics Program (<http://ufgi.ufl.edu/>), or Biology Program (<http://biology.ufl.edu/>). Potential funding sources include University fellowships, research assistantships, and teaching assistantships.

Interested prospective students should first contact Dr. Christine W. Miller (cwmiller@ufl.edu) by November 1st (though later applications will be considered). Include with your email the following: 1) a statement of the kinds of research questions that you would like to pursue and why they are a good fit for the lab, 2) a brief overview of your previous research experiences, 3) CV or resume, 4) GRE scores (if you have them), 5) an unofficial transcript.

Information about Gainesville, Florida:

Situated in the rolling countryside of north central Florida, Gainesville is much more than a stereotypical college town. Home of the University of Florida, seat of Alachua County's government and the region's commercial hub, it is progressive, environmentally conscious and culturally diverse. The presence of many students and faculty from abroad among its 99,000-plus population adds a strong cross-cultural flavor to its historic small-town Southern roots. Its natural environment, temperate climate and civic amenities make Gainesville a beautiful, pleasant and interesting place in which to learn and to live.

Time and time again, Gainesville has been tapped as one of Florida's most liveable cities and ranked among the leaders in the United States â€” a reputation created by an exceptional combination of local features. Agreeable weather and lovely landscapes, attractive educational and economic opportunities, varied cultural and recreational resources, and a youthful, energetic ambiance all contribute to the standard of living enjoyed by area residents.

Christine W. Miller | University of Florida

Assistant Professor of Entomology and Nematology |
Joint Assistant Professor of Biology

phone: (352) 273-3917 web: www.MillerLab.net facebook: Miller Lab of Evolutionary Ecology

”Miller, Christine W.” <cwmiller@ufl.edu>

UFlorida HostParasiteCoevolution

I anticipate accepting several graduate students interested in studying either host-parasite co-evolution or Caribbean bat evolution at the University of Florida starting Fall 2016.

1) Are you interested in interdisciplinary research in host-parasite evolution? Our lab uses host-specific par-

asites to study primate and human evolution. We use molecular data from parasitic lice to make inferences about human evolution. We have used lice to estimate when humans began wearing clothing, when we left Africa, whether we had close contact with Neanderthals and much more. This research has garnered a lot of media coverage over the years and there are many more interesting questions to ask.

2) Are you interested in studying bats on Caribbean islands? Our lab is studying the affects of climate change on bat species. This interdisciplinary work uses molecular data, fossil data, and ecological niche modeling to better understand the factors that shape evolution on islands. The research involves fieldwork, labwork, and at times computer simulation, next-gen sequencing and bioinformatics.

More information on the lab and our research can be found at www.flmnh.ufl.edu/mammals/. Applicants should be highly motivated, able to work both independently and in collaborative groups, and have previous biological research experience. My research group is highly collaborative and we place a premium on collegiality. My lab is in the Florida Museum of Natural History, which provides many benefits in addition to the academic departments where my students matriculate.

The University of Florida has a strong community of evolutionary biologists (<http://evolution.group.ufl.edu/>). Prospective students could apply through the Biology Program (<http://biology.ufl.edu/>) or the Genetics Program (<http://ufgi.ufl.edu/>). Potential funding sources include University fellowships, research assistantships, and teaching assistantships. Interested prospective students should first contact Dr. David L. Reed (dreed@ufl.edu) as soon as possible. Application deadlines are early (Dec 1). Include with your email the following: 1) a short statement about your research interests, 2) a brief overview of your previous research experiences, and 3) CV or resume.

Information about Gainesville, Florida: Situated in the rolling countryside of north central Florida, Gainesville is much more than a stereotypical college town. Home of the University of Florida, seat of Alachua County's government and the region's commercial hub, it is progressive, environmentally conscious and culturally diverse. The presence of many students and faculty from abroad among its 99,000-plus population adds a strong cross-cultural flavor to its historic small-town Southern roots. Its natural environment, temperate climate and civic amenities make Gainesville a beautiful, pleasant and interesting place in which to learn and to live.

Time and time again, Gainesville has been tapped as one of Florida's most liveable cities and ranked among

the leaders in the United States. Agreeable weather and lovely landscapes, attractive educational and economic opportunities, varied cultural and recreational resources, and a youthful, energetic ambiance all contribute to the standard of living enjoyed by area residents. Natural springs abound in the Gainesville area, and we are only 70 miles from the Gulf Coast or the Atlantic Coast of FL.

Best wishes, David Reed

David L. Reed, Ph.D. Curator of Mammals and Chair, Department of Natural History Florida Museum of Natural History 1659 Museum Road (Dickinson Hall) University of Florida Gainesville, FL 32611 (352) 273-1971 (voice) (352) 846-0287 (fax) e-mail: dlreed@ufl.edu <http://www.flmnh.ufl.edu/mammals/> "dreed@flmnh.ufl.edu" <dreed@flmnh.ufl.edu>

UGlasgow EvolutionaryGenomics

PhD opportunity in ecological genomics at the Institute of Biodiversity, Animal Health & Comparative Medicine at the University of Glasgow

A competitive fully-funded PhD studentship will be available to study comparative ecological genomics of freshwater fishes with Kathryn Elmer and Colin Adams through the University of Glasgow College of Medical, Veterinary and Life Sciences Doctoral Training Programme (MVLS-DTP). This 3.5 yr Doctoral Training Programme delivers high quality, collaborative research and training for PhD students within the Biosciences. We are looking for enthusiastic young evolutionary biologists to join our team!

Details about the MVLS-DTP are available at: <http://www.gla.ac.uk/colleges/mvls/graduateschool/-researchopportunities/researchopportunities/-mvlsdoctoraltrainingprogramme/> See the project entitled "Comparative ecological genomics" under the section "Food Security (Animal Health)". We are also open to discussing other project options to the successful candidates under a similar research theme.

Note that the application is to the MVLS-DTP and not to the specific project, but the project(s) will be available to the successful candidates.

The competition is open to UK and EU nationals.

Deadline for applications is 7 December 2015

The University of Glasgow ranks in the worlds top 100

universities and IBAHCM is an outstanding research institution with many opportunities for collaboration and discussion. Glasgow is a lively cultural city on the doorstep of the beautifully rugged Scottish Highlands.

Kathryn Elmer is interested in the genetics of biodiversity and ecological diversification and is based in the Evolutionary Analysis Group. Colin Adams studies fish biology and trophic ecology and is also Director of the Scottish Centre for Ecology and the Natural Environment (SCENE) on Loch Lomond. <http://www.gla.ac.uk/researchinstitutes/bahcm/staff/kathrynelmer/> <http://www.gla.ac.uk/researchinstitutes/bahcm/staff/colinadams/> Interested candidates are encouraged to contact Kathryn Elmer in advance of the deadline.

Dr. Kathryn Elmer

Institute of Biodiversity, Animal Health and Comparative Medicine University of Glasgow Graham Kerr Building, Glasgow, G12 8QQ Scotland

kathryn.elmer@glasgow.ac.uk tel: +44 141 330 6617

<http://www.gla.ac.uk/researchinstitutes/bahcm/staff/kathrynelmer/> https://www.researchgate.net/profile/Kathryn_Elmer Kathryn Elmer
<Kathryn.Elmer@glasgow.ac.uk>

UHouston EcologyEvolution

GRADUATE OPPORTUNITIES IN ECOLOGY AND EVOLUTIONARY BIOLOGY

The Department of Biology and Biochemistry at the University of Houston (UH) welcomes applications for its graduate program in Ecology & Evolutionary Biology for Fall 2016. The following faculty in the areas of Ecology and Evolutionary Biology have opportunities available for their labs:

Blaine Cole (bcole@uh.edu) - Evolution and social behavior Dan Graur (dgraur@uh.edu) - Molecular evolutionary bioinformatics Dan Wells (dwells@uh.edu) - Evolution of development and behavior Diane Wiernasz (dwiernasz@uh.edu) - Sexual selection Elizabeth Ostrowski (eaostrowski@uh.edu) - Experimental evolution and social evolution Erin Kelleher (eskelleher@uh.edu) - Evolutionary genetics and genomics George Fox (fox@uh.edu) - Experimental evolution and origin of life Gregg Roman (gwroman@uh.edu) - Evolution of behavior Kerri Crawford (kmcrawford3@uh.edu) - Com-

munity ecology Rebecca Zufall (rzufall@uh.edu) - Evolutionary genetics Ricardo Azevedo (razevedo@uh.edu) - Evolutionary genetics Rich Meisel (rpmeisel@uh.edu) - Evolutionary genetics and genomics Steve Pennings (spennings@uh.edu) - Community ecology Tim Cooper (tcooper@central.uh.edu) - Experimental evolution Tony Frankino (frankino@uh.edu) - Evolution of complex traits

For more information regarding the Evolutionary Biology and Ecology graduate program at UH see:

<http://www.bchs.uh.edu/graduate/prospective-students/> <http://www.uh.edu/graduate-school/prospective-students/how-to-apply/> The deadline for application of prospective students is February 1st, 2016, but students are encouraged to apply as early as possible.

Ricardo B. R. Azevedo, PhD Associate Professor Dept. Biology & Biochemistry University of Houston 369 Science & Research 2 Houston, TX 77204-5001 Tel: 713-743 4149 Fax: 713-743 2636 Email: razevedo@uh.edu

"razevedo@Central.UH.EDU"
<razevedo@Central.UH.EDU>

ULeuven AntarcticFishEvolution

PhD student in evolutionary biology at the University of Leuven, Department of Biology, Laboratory of Biodiversity and Evolutionary Genomics

BIOLOGICAL REFUGIA OF THE SOUTHERN OCEAN

We are looking for a highly motivated scientific colleague to join a multidisciplinary and challenging project.

Research topic

The Southern Ocean (SO) provides a natural laboratory for research on evolution and biodiversity because of its long history and geographic isolation. Confronted with fast-paced environmental changes, Antarctic ecosystems/species/organisms are strongly challenged and face three possible outcomes: adaptation, migration or extinction. Past glaciation periods have forced marine organisms of the SO into refugia, being either ice-free continental shelf areas, the deep sea or peri-Antarctic regions, followed by recolonization when ice retreated. You will try to understand how such past events have driven diversification and adaptation in fishes and how these can be applied as proxies to understand the con-

temporary situation and predict the future.

The Laboratory of Biodiversity and Evolutionary Genomics specialises in research on the evolutionary biology of fishes and their parasites. In a new collaborative research project the refugia of Antarctic fishes will be studied.

Profile :

- Master in (marine) Biology, Applied Biology or the equivalent with excellent study results
- Obligation to prepare a doctoral thesis within 4 years
- Interest in fish biology and polar ecosystems
- Ready to participate in long sampling campaigns under extreme conditions
- Experience or knowledge on genomics
- You will apply for an IWT fellowship (<http://www.iwt.be/subsidies/sb>) in September 2016

We offer excellent coaching in an inspiring research environment with the most up to date research facilities.

Interested candidates are requested to submit their application (motivation letter, address of three referees, summary of master thesis and Curriculum Vitae) to the Arenberg Doctoral School <https://icts.kuleuven.be/apps/jobsite/domein/9028/9003> before 15 November 2015.

Context:

The doctoral research is associated with the BELSPO project vERSO, in collaboration with prof. Filip Volckaert (KU Leuven) and dr. Anton Van de Putte (RBINS). Funding is available for 1 year and following a positive mid-term evaluation for 4 years. The lab is based in the historical university town of Leuven, Belgium (<http://www.leuven.be>).

Information: prof. Filip Volckaert, phone + 32 16 323972 or E-mail. filip.volckaert@bio.kuleuven.ac.be; URL: bio.kuleuven.be/eeb/lbeg

Filip Volckaert <filip.volckaert@bio.kuleuven.be>

UManchester
EvolutionMatePreference

PhD position: The evolution of mate preference (University of Manchester)

Advisory team: Tucker Gilman (Manchester), Andrew

Chamberlain (Manchester), Chris Klingenberg (Manchester), Anthony Little (University of Sterling)

Anticipated project title: Mate choice in humans and animals: mathematical models and empirical tests

Most animals do not mate indiscriminately. Rather, they are choosy about mates: they prefer some kinds of mates over others. Mate preferences can be intrinsic (e.g., genetic), or they can be learned. Presumably, the strategies by which animals acquire mate preferences are subject to selection and evolution, but we know little about how mate choice strategies evolve. Understanding this is important because mate preferences have profound effects on speciation and trait evolution, and are believed to have helped shape Earth's animal biodiversity.

In this project, the student will use mathematical and computational models to predict how mate choice strategies evolve in nature. The student will test the model predictions by comparing them to the strategies observed in a particularly interesting and amenable study system - humans. The student will ask human subjects to rate the attractiveness of digitally manipulated faces as potential long-term or short-term partners, and will analyse the results to understand mate preferences and how those preferences are acquired. This will provide new and potentially surprising information on how humans and other animals choose mates.

During the modelling part of the project, the student will work with dynamical systems analysis and stochastic computational simulation using Manchester's world-leading high-throughput computational facilities. During empirical testing, the student will gain experience with behavioural research, survey study design, and advanced statistical analysis. These skills are critical to careers in modern evolutionary biology and are transferable to a wide range of careers in the natural and applied sciences. The advisory team believes that PhD students should take the lead role in designing their own research, and thus there will be considerable flexibility in the questions the student asks and the approaches the student uses to answer them.

The successful candidate will be funded through the BBSRC Doctoral Training Partnership programme.

For further information about this position, please contact Tucker Gilman (tucker.gilman@manchester.ac.uk). To apply, visit (www.dtpstudentships.manchester.ac.uk/howtoapply/).

Application Deadline: 24 November 2015

Tucker Gilman <tucker.gilman@manchester.ac.uk>

UMelbourne EvolutionSexSociality

Two PhD projects - commencing 2016 (typically February)

Luke Holman lab, School of Biosciences, University of Melbourne.

I am seeking one or two PhD students to join ongoing projects involving evolution, sex and sociality in insects, which are funded by the Australian Research Council and the University of Melbourne. I am particularly keen to recruit students interested in working with next generation sequencing data (both projects) or large-scale insect experiments (project 1).

Project 1: Genetics of sexual conflict in beetles

Sexual selection research commonly talks about good genes, but just who are these genes good for? There is evidence that alleles that produce a high-fitness female do not necessarily make a high-fitness female, and vice versa. This is termed intralocus sexual conflict, and it has far-reaching evolutionary consequences. Using experimental evolution experiments coupled with next-generation sequencing in *Tribolium* flour beetles, we will work out which traits are under strong intralocus conflict, which ecological and evolutionary factors determine the strength of the conflict, and which genes are contested territory in the battle of the sexes.

Project 2: DNA methylation in social insects

If the genome is like a printed instruction book for building an organism, DNA methylation is like pencil notes in the margins that allow for reversible modifications to the design. Social insects (bees, ants, wasps, termites) have two castes queens and workers and recent evidence suggests that caste (and other, more subtle differences, e.g. between different types of workers) is under the control of DNA methylation. Using experiments with ant and bee colonies as well as whole genome bisulphite sequencing, we will build on exciting new results from my lab, and study the interplay between pheromones and DNA methylation.

Requirements

Successful applicants will be assisted in applying for an Australian Postgraduate Award (for Australians) or an International Postgraduate Research Scholarship (for Internationals) through the University of Melbourne. To be competitive, a First-class Honours or Masters

Degree (or international equivalent) or publication in international journals are essential. The APA and IPRS applications are short, but the deadline is soon: 31st October 2015. Thus, please send applications by 19th October or earlier.

To apply, please send A) A brief letter outlining your research interests; B) an academic CV; C) your academic transcript/grades; D) contact details of two referees (including a previous research supervisor).

For further information, and to submit applications, please contact Luke Holman directly.

Luke Holman website: <https://sites.google.com/site/lukeholman/home> email: luke.holman@anu.edu.au tel: +61 2 612 53611

"luke.holman@anu.edu.au" <luke.holman@anu.edu.au>

UMichigan PlantAdaptationStress

The Baucom lab in the Ecology and Evolutionary Biology Dept at the University of Michigan (Ann Arbor, MI) is currently accepting graduate students for the fall of 2016. Members of the lab examine a range of evolutionary and ecological questions that fall under the broad umbrella of plant adaptation to extreme, often human-mediated environments. We use large manipulative field and greenhouse experiments, population genetic/genomics techniques, and bioinformatics to understand the genetic basis of traits and their potential to influence fitness.

Current projects in the lab include (1) parallel evolution of herbicide resistance and its genetic basis across the landscape in the common morning glory, *Ipomoea purpurea*, (2) migration dynamics of invasive agricultural weeds, (3) the influence of the mating system on herbicide resistance evolution, (4) character displacement in plant roots, and (5) the evolution of plant leaf shape and the leaf canopy. For more information, see the lab website: <http://sites.lsa.umich.edu/baucom-lab/> Financial support is offered to graduate students through teaching positions (Graduate Student Instructors) and a range of different fellowship opportunities offered through the University of Michigan Rackham Graduate School. Students in the PhD program are guaranteed funding for 5 years and they do not teach during the summer semester. Further, Ann Arbor is consistently rated as one of the best college towns in the US, with a healthy local foodie and microbrewery culture. If interested, contact Gina

through email (rsbaucom@umich.edu) explaining your scientific interests and include a CV along with contact information for 2-3 references.

– Regina S Baucom 2059 Kraus Natural Science Building 830 North University Dept of EEB University of Michigan Ann Arbor, MI 48109 (734) 647-8490 <http://sites.lsa.umich.edu/baucom-lab> Regina Baucom <rsbaucom@umich.edu>

UMontana PlantEvolutionaryGenomics

Graduate Position: UMontana Plant Evolutionary Genomics

The Fishman Lab at the University of Montana (UM) invites applications from prospective graduate students (PhD or MS) interested in investigating mechanisms of plant evolution. We study the origins and maintenance of plant variation at the individual, population, and species levels, primarily using the genus *Mimulus* (monkeyflowers) as a model system. I am particularly interested in recruiting students wanting to work on the mechanisms and consequences of adaptation to extreme environments, as we have several years of RA support associated with an NSF-funded project on incipient speciation of yellow monkeyflowers in thermal areas of Yellowstone National Park.

Other active research areas in the Fishman Lab include the genetic basis of flowering time, floral morphology, and life history traits, the evolution of hybrid sterility and inviability, the role of chromosomal rearrangements in speciation, and selfish centromere evolution (read more about our research here: <http://hs.umt.edu/dbs/-labs/fishman/default.php>.) *Mimulus* is an emerging model system for evolutionary genomics, with tremendous biological diversity, excellent genome resources, and a collaborative research culture. We use a range of empirical approaches, including field experiments, genetic mapping, and population genomics.

The Fishman Lab is part of a highly interactive group of labs at UM with diverse organismal foci but shared enthusiasm for evolutionary questions addressed with genomic tools. The Organismal Biology and Ecology Program at UM has faculty research strengths in evolutionary genomics, physiology and ecology (<http://hs.umt.edu/dbs/grad-programs/OBE/obee-focal-areas.php>), excellent training opportunities for

students, and unparalleled access to natural areas (e.g., Yellowstone and Glacier NPs) for both research and recreation. The University of Montana - Missoula is the state university systems liberal arts campus, fostering a rich cultural community, and Missoula is regularly lauded as one of the greatest places to live in the country (<http://hs.umt.edu/dbs/grad-programs/OBE/OBEgradlife/Missoula/default.php>).

Please contact Lila Fishman (lila.fishman@mso.umt.edu) directly if you are interested in applying; all OBE students must secure a faculty sponsor prior to admission. General information on the Organismal Biology and Ecology Program at the University of Montana and details of how to apply can be found at: <http://hs.umt.edu/dbs/grad-programs/OBE/default.php>. The official OBE program application deadline is Dec. 1st.

Lila Fishman

Associate Professor Division of Biological Sciences University of Montana Missoula, MT 59812

office: 406 243-5166

lilafishman@gmail.com

UMontreal EvolPlantMicrobeInteractions

UMontreal.Ecology and evolution of Plant-Microbe Interactions

Applications are invited for two graduate student positions (Ph.D. or M.Sc.) to work in the area of Ecology and Evolution of Plant-Microbe Interactions.

We use a combination of molecular and biochemical techniques, to explore the microbial mechanisms by which land use modifies soil function in-situ. The student will specialize in molecular microbial ecology and evolution techniques, but will interact with a multidisciplinary research team. The position is ideal for students that have or expect to obtain a degree in Evolutionary Biology, Microbiology, Ecology, Environmental Sciences, or Bioinformatics and are committed to move into the area of Biodiversity and Environmental Protection. Collaborative research between the Département de Biologie of Université de Montréal and Agriculture and Agri-Food Canada offers a unique training opportunity and an ideal research environment for graduate students through exposure to a wide range of ideas and to academic and governmental research cultures. It is not required to

speak French.

We use a combination of molecular and plant genetic improvement techniques, to improve the soil microbiome using wheat genetics. The student will specialize in molecular microbial ecology techniques, but will interact with research teams in fungal and wheat genetics. The position is ideal for students that have or expect to obtain a degree in Biology, Microbiology, Ecology, Plant Sciences, or Bioinformatics and are committed to move into the area of Biodiversity and Genetic Crop Improvement. Collaborative research between the Département de Biologie of Université de Montréal and Agriculture and Agri-Food Canada offers a unique training opportunity and an ideal environment for graduate students through exposure to a wide range of ideas and to academic and governmental research cultures. It is not required to speak French.

Contact Information:

Chantal Hamel Chantal.Hamel@agr.gc.ca or 418 742-5028
Mohamed Hijri Mohamed.Hijri@umontreal.ca or 514 343-2120

Hijri Mohamed <mohamed.hijri@umontreal.ca>

UNevada Reno 3 Evolutionary Genetics

We have two major projects starting at the University of Nevada, Reno with 3 Ph.D. positions available. Please pass this announcement on to potential candidates. Thank you!

PhD Graduate Research Assistantship in *Neotoma* evolutionary genetics and ecological adaptation.

A Ph.D. Graduate Research Assistantship is available to study ecological adaptation and hybridization between two species of woodrats (genus *Neotoma*) in California. The goal of the project is to identify how diet-based ecological adaptations may influence aspects of pre- and post-zygotic isolation. The student will play a large role in the design and implementation of field and laboratory-based studies that include analysis of gene expression and microbiome changes in pure and hybrid genotypic classes as they are exposed to chemically-distinct, field-based diets. The student will also participate in a high school outreach program focused on teaching genetics, ecology and evolution. Candidates should be creative and highly motivated with strong writing and communication skills. Candidates must have a B.S. (and

preferably an M.S.) in biology or a closely related discipline. Candidates must have field experience (preferably with small mammals), ability to work under rigorous field conditions and lead field crews under their supervision, some genetics laboratory experience and interest in science education.

Ph.D. Graduate Research Assistantships (2). Pygmy rabbit ecology, demography, and landscape connectivity.

Two Ph.D. research assistantships are available at the University of Nevada-Reno on a project focused on building a quantitative understanding of the ecology, demography and population connectivity of the pygmy rabbit (*Brachylagus idahoensis*) in Nevada. The pygmy rabbit is a sagebrush specialist that is broadly (but non-continuously) distributed across the Great Basin. Like other habitat specialists, the pygmy rabbit is expected to be particularly vulnerable to climate change. Further, because of the predicted loss and degradation of sagebrush ecosystems over the coming decades, it is critically important to identify key areas that may serve as refugia or movement corridors for pygmy rabbit and other sagebrush obligates while large, relatively intact sagebrush tracts remain available for study. The goal of this project is to quantify population dynamics and dispersal/colonization capabilities of the pygmy rabbit in Nevada to develop a more complete view of the habitat and landscape characteristics that sustain local and regionally connected populations. Although both students will be expected to collaborate extensively, we expect that one Ph.D. student will focus primarily on landscape genetics (advised by Dr. Marjorie Matocq), while the other student will focus on demography and population modeling (advised by Dr. Kevin Shoemaker). Field research for both students will include trapping and marking pygmy rabbits and collecting tissue samples at numerous sites in Nevada. Laboratory work for the landscape genetics student will include generating genetic/genomic datasets to quantify reproductive success and relatedness within populations and genetic connectivity among populations. "Laboratory" work for the population ecology student will include estimating vital rates such as fecundity and survival from capture-mark-recapture data, using a geographic information system to identify suitable habitat patches and modeling functional connectivity, and constructing spatially explicit, individual-based population models. Applicants should be hard-working, self-motivated field biologists prepared to work under rigorous field conditions and able to lead field crews under their supervision. Both candidates should have field experience with small mammals, basic literacy in data management and statistical analysis, and strong writing and communication skills. The genetics student should have genetics laboratory

experience, and the population ecology student should have proficiency in the use of geographic information systems and competence with computer programming is highly desirable. Drivers licenses are necessary for both positions. Applicants must have a B.S. (and preferably an M.S.) in biology or a closely related field.

To apply for one of the above positions, please submit the following as a single PDF email attachment: a letter stating your qualifications and career goals, CV, transcripts, GRE scores, and contact information for three references (not letters). Review of applications will begin November 20, 2015 and will continue until the positions are filled. Send application to Dr. Marjorie Matocq, Department of Natural Resources and Environmental Science, University of Nevada, Reno, Reno, Nevada 89557 (775-784-4621; mmatocq@cabnr.unr.edu). See the following websites for further information about the Program in Ecology, Evolution, and Conservation Biology (<http://www.unr.edu/eecb>) and our lab

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UPennsylvania MacroevolutionPaleo

PHD FELLOWSHIP IN PALEOBIOLOGY/MACROEVOLUTION A PhD fellowship in Paleobiology is available in the Department of Earth and Environmental Science at the University of Pennsylvania, starting in Fall 2016. Prof. Lauren Sallan seeks a graduate student to address major questions about the evolution of life. These include: how global change has affected life over time, how life evolves at high levels (macroevolution), the relationships of living and dead animals (phylogeny), and the origins of living biodiversity. While research in the lab has focused on fishes, any suitable group of fossils may be used.

Potential thesis topics include, but are not limited to: the long-term effects of mass extinctions (e.g. the end-Devonian and end-Ordovician), the roles of predation and competition in marine ecosystem evolution, traits of adaptive radiations and *Living fossils*, the effects of long-term climate and environmental changes (e.g. the Late Paleozoic Ice Age) on biodiversity, and major transitions in early vertebrate evolution

(e.g. origin of jaws, invasion of land). The student can also develop a novel project that addresses similar questions using quantitative, phylogenetic and/or descriptive methods.

Applicants are encouraged to contact Prof. Sallan (lsallan@sas.upenn.edu) for more details. Additional information on the fellowship is available on the departmental website: www.sas.upenn.edu/earth. Applications for entry in Fall 2015 are due January 15, 2016. Applications to graduate school at Penn must be submitted online at <https://www.applyweb.com/upenn/> Lauren Sallan Assistant Professor Earth and Environmental Science & Evolution Cluster University of Pennsylvania Office: Hayden 154B Phone: (215) 898-5650 lsallan@sas.upenn.edu

Lauren Sallan <lsallan@sas.upenn.edu>

UQuebec TroisRivieres ContemporaryHumanEvolution

MSC OPPORTUNITIES IN CONTEMPORARY HUMAN EVOLUTION

with prof. Emmanuel Milot, University of Quebec, Trois-Rivieres (Quebec, Canada) (www.uqtr.ca/-emmanuel.milot/EN)

Starting as soon as possible. Please send the requested documents to emmanuel.milot@uqtr.ca before October 27, 2015.

DESCRIPTION

MSc candidates are sought to work on projects within the framework of the research program "The role of contemporary evolution in shaping life history, demography and the fate of functional genetic variation in natural populations". This program, funded by the Natural Sciences and Engineering Council of Canada (NSERC), aims to study the process of selection and genetic change, generation-by-generation, and to test life-history theory using human populations as models. Recently, our team documented the first known example of microevolution in a modern human population (Milot et al. 2011 PNAS 108, 17040-17045). The projects offered here will build on this work.

Successful candidates will perform research in evolutionary genetics of life-history traits in replicate populations, in eco-evolutionary dynamics across a ~250 year window, as well as on the consequences of evolution on

functional genetic variants, such as those involved in genetic diseases (depending on the specific project). Candidates will have the chance to work with exceptional data (pedigree and/or molecular data) from the Québec population, which has become a world-wide recognized model in population genetics.

The students will join an interuniversity team in evolutionary biology that will provide them with opportunities to interact and collaborate with researchers from various disciplines (ecology, evolutionary ecology, epidemiology, anthropology, demography, genetic medicine, etc.).

FUNDING Salary is available up to 2 years per project. Candidates with profiles good enough to apply for scholarships will be given priority.

CONDITION FOR ADMISSION

Candidates must have an undergraduate (bachelor's) degree in biology or in a related domain, or expect to have completed their degree very soon.

COMPETENCE SOUGHT All projects will involve working with genealogical data, fitting complex statistical models and performing simulations. The following skills/aspects will be considered assets: having a basis in population genetics; showing a strong interest to work with complex statistics; having experience in programming or being highly motivated to develop skills in that field; being rigorous and having good skills in writing. Some knowledge of French (or willingness to learn it) will help the students with their integration to the team and the courses offered in the Master programs.

DOCUMENTS REQUESTED TO APPLY

- Cover letter with a statement of the research interests of the candidate - CV - Name and Email of two referees
- Undergraduate study transcript

Do not hesitate to contact me for further information:

Emmanuel Milot E-mail : emmanuel.milot@uqtr.ca
 Phone : +1 819 376-5011, ext. 4397 Web page : www.uqtr.ca/emmanuel.milot/EN
ABOUT THE UNIVERSITY AND THE CITY The University of Québec at Trois-Rivières is small-medium size (~15,000 students) institution that is currently expanding and very dynamic in research. The working language is French although many people also speak English. Founded in 1634, Trois-Rivières is the third oldest city in North America (after Québec City and Boston) with a small and nice old downtown. It is strategically located within an hour and half drive of Montreal and Québec City, along the St. Lawrence River and nearby vast forested landscapes. Access is thus easy to both the great cultural life of these cities and profuse outdoor activities, including

winter sports.

“Emmanuel.Milot@uqtr.ca”
 <Emmanuel.Milot@uqtr.ca>

USaskatchewan WildHorseEvolution

PHD IN WILD HORSE EVOLUTIONARY ECOLOGY AND GENETICS

Location: University of Saskatchewan, Saskatoon, Canada.

Supervisors: Dr. Philip McLoughlin, University of Saskatchewan, Saskatoon, Canada. Dr. Jocelyn Poissant, University of Exeter, Penryn, UK.

Salary: 0 000/year for a minimum of 3 years.

Start date: January 1st 2016 (preferred) or May 1st 2016.

Project: We are looking to recruit a PhD student to contribute to our long-term individual-based study of feral horses on Sable Island (Nova Scotia, Canada) initiated in 2007. This project will focus on the evolutionary consequences of a strong gradient in habitat quality along the length of the island (horse density drops by half from west to east). The student will have access to pedigree, molecular markers, social network and phenotypic (body size, intestinal parasite load, body condition, life history, etc.) data for more than 900 known individuals to develop questions related to spatial variation in population dynamics, genetic structure, phenotypic selection, mate choice, and inbreeding. We are particular interested in recruiting a student who recently or will soon obtain a M.Sc. in evolutionary ecology and/or genetics. Information about the study system can be found at <http://mcloughlinlab.ca/lab/research-2/research/>. The student will spend up to 2 months on Sable Island each summer for fieldwork. Daily tasks, shared by the entire research team, will include walking censuses and photography of horses, collection of samples, laboratory (parasitology) work, identification of individuals from digital photographs, and database management. Students visiting Sable Island must work well in teams, deal well with life in a remote research station, be able to travel by small airplane, fishing trawler, helicopter, or frigate, and be reasonably fit as walking censuses require lots of hiking. Courses on first aid and driving All Terrain Vehicles will be provided prior to fieldwork. This position is fully funded for a minimum of 3 years

(salary of 0 000/year) but the student will be expected to apply for internal scholarships (e.g., teaching assistant positions) and external scholarships (e.g. NSERC). While all applications are welcomed, preference will be given to Canadians who are competitive for an NSERC scholarship (GPA > 3.8) and international students who can secure a scholarship in their home country.

To apply send an email titled SABLE ISLAND PHD 2016 to philip.mcloughlin@usask.ca including:

- A short summary of research interests
- A current CV
- PDFs of undergraduate and graduate transcripts
- The names and email addresses of 3 potential references

Instructions for the full application to the Ph.D. program are located here: https://www.usask.ca/cgsr/-grad_programs/programs/BIOL.php "Poissant, Jocelyn" <J.Poissant@exeter.ac.uk>

USheffield AncientDNA

Applications are invited for a 3.5 years PhD studentship eligible for NERC funding at the University of Sheffield, UK

Project Description

Background. Ancient DNA research is one of the most exciting fields in genetics. Using ancient DNA, we can answer questions such as: what did the Vikings or Ancient Romans look like? What diseases did they have? How did their migration affect our environment? What percentage of our DNA came from theirs? Can we trace their movements using the plant seeds that they moved around?

The successful candidate will receive multiple trainings in the ancient DNA lab in the University of York, in the Bioinformatics Hub at the University of Sheffield, and in one of the world leading companies in DNA tests, located in Ohio (USA). The candidate will gain valuable experience in "wet lab" techniques, bioinformatics, and business.

Job description: We are seeking an outstanding graduate student who is self-motivated and can work independently, with an enthusiasm for a mix of fields and computational lab work. The position is open to all applicants with mathematical/bio-statistical and computational skills and an interest in paleo-genomics and

developing expertise in bioinformatics, genomics, and biodiversity while developing ties with a major US DNA diagnostics company.

Our groups have strong expertise in studying ancient DNA and developing powerful tools, such as the Geographical Population Structure (GPS), which can find one's village of origin using our DNA (<http://www.iflscience.com/health-and-medicine/-dna-gps-maps-where-your-ancestors-lived>). This is a multidisciplinary project which provides many learning opportunities in various exciting and emerging fields. The successful candidate will spend about 6 months working in the Ancient DNA lab in York learning how to sequence and assemble ancient genomes and 3 months in the US training with a DNA diagnosis company. In the remaining time, the candidate would be a part of the Bioinformatics Hub at the University of Sheffield.

Funding Notes

Fully funded for a minimum of 3.5 years, studentships cover: (i) a tax-free stipend at the standard Research Council rate (at least pounds 14,057 per annum for 2016-2017), (ii) research costs, and (iii) tuition fees at the UK/EU rate. Studentships are available to UK and EU students who meet the UK residency requirements. Students from EU countries who do not meet residency requirements may still be eligible for a fees-only award.

References

This PhD project is part of the NERC funded Doctoral Training Partnership "ACCE" (Adapting to the Challenges of a Changing Environment). This is a partnership between the Universities of Sheffield, Liverpool, York and the Centre for Ecology and Hydrology.

Selection process: Shortlisting will take place as soon as possible after the closing date and successful applicants will be notified promptly. Shortlisted applicants will be invited for an interview to take place at the University of Sheffield on w/c 15th February 2016.

Please see

<http://www.findaphd.com/search/-ProjectDetails.aspx?PJIDAà'9 &LIDÀ~> for more details of this project, and the application procedure.

Please contact Eran Elhaik (e.elhaik@sheffield.ac.uk) for informal discussion.

Eran Elhaik, Ph.D.

<http://www.eranelhaiklab.org/> <http://-bioinformatics.group.shef.ac.uk> Department of Animal & Plant Sciences, University of Sheffield,

Email: e.elhaik@sheffield.ac.uk

Eran Elhaik <e.elhaik@sheffield.ac.uk>

USherbrooke KangarooReproStrategy

Ph.D. : Reproductive strategies of female eastern grey kangaroos under fluctuating resources

I am looking for a student to explore links between individual growth, mass changes, foraging behavior and multi-year reproductive success of female eastern grey kangaroos, and how these links are affected by environmental conditions, offspring sex, previous reproduction and female size and age. Kangaroos have indeterminate growth, therefore face a trade-off between growth and reproduction throughout life. Foraging strategies vary among individuals and with reproductive effort, causing variation in mass gain and subsequent reproductive success. Population density, vegetation productivity and weather vary substantially from year to year, leading to considerable and unpredictable changes in resource availability. This research will involve 3-4 months of fieldwork in Victoria, Australia for 2-3 years, to be added to the existing 8 years of monitoring. The database will include over 1000 kangaroos, yearly recaptures for 90% of marked females and about 1200 female-years of data on reproductive success for 250 females. Candidates should have a strong interest in evolutionary ecology, knowledge of the behavioral ecology literature, statistical skills and an ability to work long hours in the field, with limited personal space. A strong attitude for teamwork is essential. The program can start in September 2016 or January 2017. An internal scholarship of C\$ 19,000 per year for 4 years is available. Although the research is fully funded, external scholarship holders will be preferred.

If you are interested, please e-mail me a CV, a letter explaining why you want to do this research and the e-mails of 2 people able to assess your potential as a researcher.

Marco Festa-Bianchet m.festa@Usherbrooke.ca <http://marco.recherche.usherbrooke.ca/marco.htm> Marco Festa-Bianchet <m.festa@Usherbrooke.ca>

USouthampton EvolutionInvasiveSpecies

PhD position (environmental DNA and marine biological invasions) at the University of Southampton, United Kingdom

Research aimed at successfully detecting and managing invasive species has the potential to considerably mitigate their effects, as well as reveal ecological and evolutionary mechanisms occurring during the invasion process. Recent development of advanced molecular biology techniques has generated revolutionary opportunities for research. A rapidly emerging example is the study of environmental DNA (eDNA), in conjunction with high throughput analyses, which permits characterisation of species composition and biodiversity monitoring of entire communities. The study of eDNA allows the detection of inconspicuous or rare species, which may later expand their ranges and become problematic.

This project will produce standardised eDNA protocols to rapidly and reliably detect marine non-indigenous species. In addition, this project will provide genetic and analytical protocols to compare populations across different spatial scales. The field samples will be stored and identified at the National Oceanography Centre Southampton, which is the largest centre focusing on marine science in the United Kingdom. Genetic laboratory work will be conducted at the Molecular Ecology and Fisheries Genetics Laboratory (Bangor University, United Kingdom) that has a state-of-the-art eDNA facility with clean rooms and all the required laboratory equipment.

The candidate will join a dynamic research group (Ecology and Evolution Lab, University of Southampton) and work closely with internationally renowned scientists at Bangor University, who are leaders in the field of eDNA, genomics and conservation genetics.

For more information visit:

<http://noc.ac.uk/gsnocs/project/environmental-dna-study-marine-biological-invasions> <https://marciusvil.wordpress.com> Supervisors

Dr. Marc Rius (Ocean & Earth Science, National Oceanography Centre Southampton, University of Southampton) Dr. Simon Creer (School of Biological Sciences, Bangor University) Dr. Mark de Bruyn (School of Biological Sciences, Bangor University) Prof.

Gary Carvalho (School of Biological Sciences, Bangor University)

Dr. Marc Rius Ocean & Earth Science University of Southampton European Way, Southampton, SO14 3ZH United Kingdom

M.Rius@soton.ac.uk www.marcriusvil.wordpress.com
 "Rius M." <M.Rius@soton.ac.uk>

UtahStateU EvoGenomicsBeeSocialBehavior

The Kapheim Lab at Utah State University is seeking graduate students (MS or PhD) to join the Biology Department in Fall 2016.

Research in the Kapheim lab addresses the evolutionary processes responsible for the diversity and plasticity of complex traits. The primary focus of this research is the evolution of social behavior in bees. We seek to understand the developmental and sociogenomic mechanisms underlying behavior to better understand how it evolves. Our research is integrated across sub-disciplines of biology, including evolutionary biology, behavioral ecology, comparative genomics and transcriptomics, neuroscience, physiology, and metagenomics.

Graduate students will have the opportunity to develop research projects within the major research themes of the lab. This will likely involve a combination of field, lab, and computational work. Students who find this opportunity to be a good fit will have an interest in developing skills in a combination of these activities, as well as an interest in bees and integrative evolutionary biology. Graduate students will have the opportunity to conduct field work in Panama or in the U.S.

Institutional Support The USU Department of Biology is home to a superb faculty with a diverse set of research interests that provides training in evolutionary biology, ecology, cell and molecular biology, neuroscience, and microbiology, among other topics. The Logan-based USDA Bee Biology and Systematics Laboratory is just down the road from campus, and offers opportunity for collaborative research with biologists studying a diverse set of questions related to bee biology. The Smithsonian Tropical Research Institute (STRI) in Panama, a potential location for field work, hosts world-class staff scientists, as well as thousands of international visiting researchers and provides several fellowship opportunities to graduate students.

Financial Support Accepted full-time graduate students receive comprehensive funding packages that include stipends, tuition, and health benefits in the form of graduate research assistantships and teaching assistantships. Additional funding is available for research.

Life in Logan, UT USU is located in northern Utah's Cache Valley. Situated between two mountain ranges and next to beautiful Logan Canyon, there are plenty of opportunities for field work, as well as outdoor recreation, in and around Logan.

Application Information For more information about research in the Kapheim Lab, visit www.kapheimlab.com. Information about graduate studies at USU is available on the Department of Biology website (www.biology.usu.edu). Pre-applications are due December 15. Full applications are due January 15.

Interested candidates should contact Dr. Karen Kapheim (karen.kapheim@usu.edu) with a statement of research interests, CV, and contact information for references.

Karen M. Kapheim Assistant Professor Utah State University Department of Biology 5305 Old Main Hill Logan, UT 84322-5305

(435) 797-0685 karen.kapheim@usu.edu

karen.kapheim@usu.edu

UToronto InvasionBiology

Graduate Student Positions in Invasion Ecology at the University of Toronto - applications open

I am looking for Ph.D. and M.Sc. students for investigations into the ecology of plants and their natural enemies (herbivores and pathogens) in Ontario and elsewhere. Recent work by my lab has centred on the effects of these enemies on non-native species. We have used field experiments and surveys to test whether alien plants experience reduced rates of insect and pathogen damage, as predicted by the Enemy Release Hypothesis, and whether exchange of enemies with native species depends upon phylogeny, latitude, population isolation, and other factors. Information on our research can be found at my home page (www.utm.utoronto.ca/~w3pkota).

We are a thriving department at a leading research institution, with excellent resources and many opportunities for interaction and collaboration. All grad-

uate students are guaranteed a stable minimum income, currently \$25,250 from a variety of sources, as well as support for research and conference travel. Information on application procedures and our tri-campus graduate program can be found at <http://www.eeb.utoronto.ca/grad.htm>. We accept applications beginning in November, and begin to review them in January. Interested students should contact me via e-mail: peter.kotanen@utoronto.ca.

Some recent publications

Santangelo J.S. and P.M. Kotanen (in press) Non-systemic fungal endophytes increase host survival but reduce tolerance to herbivory in subarctic *Festuca rubra*. *Ecosphere*: accepted 28 Sept 2015.

Lee, Y. and P.M. Kotanen (2015) Differences in herbivore damage and performance among *Arctium minus* (burdock) genotypes sampled from a geographic gradient: a common garden experiment. *Biological Invasions* 17: 397-408.

Kambo, D. and P.M. Kotanen (2014) Latitudinal trends in herbivory and performance of an invasive species, common burdock (*Arctium minus*). *Biological Invasions* 16: 101-112.

Dunn, A.M., M.E. Torchin, M.J. Hatcher, P.M. Kotanen, D.M. Blumenthal, J.E. Byers, C.A.C. Coon, V.M. Frankel, R.D. Holt, R.A. Huffbauer, A.R. Kanarek, K.A. Schierenbeck, L.M. Wolfe, and S. E. Perkins (2012) Indirect effects of parasites on invasions. *Functional Ecology* 26: 1262-1274.

Hill S.B. and P.M. Kotanen (2011) Phylogenetic structure predicts capitular damage to Asteraceae better than origin or phylogenetic distance to natives. *Oecologia* 166: 843-851.

Peter M. Kotanen Dept. of Ecology & Evolutionary Biology University of Toronto Mississauga 3359 Mississauga Road North Mississauga, ON, L5L 1C6 CANADA tel: 905-828-5365; fax: 905-828-3792 e-mail: peter.kotanen@utoronto.ca <http://www.utm.utoronto.ca/~w3pkota/> "peter.kotanen@utoronto.ca" <peter.kotanen@utoronto.ca>

UWarsaw UrbanEvolutionaryEcol

PhD position in Wild Urban Evolutionary Ecology

A PhD position is available to work in the Wild Urban Evolution and Ecology Lab led by Marta Szulkin at

the Centre of New Technologies (CeNT), University of Warsaw (Poland) for a period of 4 years. The position is part of a 5-year grant from the Polish National Science Centre (NCN) entitled: Ecological genetics of the great tit in a new, long-term population study set along an urbanization gradient. CeNT is a new research institute of the University of Warsaw. Both Polish and English are working languages in the group.

Background. Urban areas are predicted to expand 12-fold between 2000 and 2050, yet knowledge on the evolutionary ecology of free-living animals in urban environments is scarce. To understand the footprint of cities on the phenotype and genotype of wild birds, we will be starting a large-scale, long-term study of urban great tits *Parus major* in the city of Warsaw (Poland).

Job description. The PhD candidate will actively participate in fieldwork and in collecting phenotypic and genetic data. He or she will be interacting with the PI, the postdoctoral fellow, collaborators in Poland and worldwide, and attend relevant workshops and conferences. It is expected that the candidate will learn a large ecological genetics skill set that will allow him/her to infer the evolutionary ecology and / or population genomics of urban great tits. Salary: Monthly scholarship of 3000 PLN not subject to income tax, awarded for 4 years.

Job requirements. We seek motivated candidates with an MSc degree, a strong interest in evolutionary ecology and a good command of English. Beneficial skills include: ecological (avian) fieldwork experience / programming in R / population genetics / lab experience / bird ringing experience.

How to apply. The candidate will start on the 4th of January 2016. Your application should include (preferably in PDF format): a cover letter, C.V. (including, if applicable, your research experience, conference attendance, publication list, contact information for two referees and academic transcripts. Please send your applications to marta.szulkin@cent.uw.edu.pl no later than the 23rd of November 2015 with the term *PhD position* as email subject line. Selected candidates will be asked for reference letters; top candidates will be invited for interviews (Skype interviews are also possible).

This advertisement is also available in html and PDF formats at <http://www.cent.uw.edu.pl/pl/node/2813> Dr hab. Marta Szulkin Associate Professor Centre of New Technologies (CeNT), University of Warsaw Research Associate, Department of Zoology, University of Oxford

Marta Szulkin <marta.szulkin@zoo.ox.ac.uk>

UWisconsin Madison 2 ArthropodEvolution

PH.D. POSITION IN ARTHROPOD EVO-DEVO

The newly established Sharma Lab at the University of Wisconsin-Madison is seeking a doctoral student for Fall semester of 2016, who is interested in the evolution of developmental mechanisms and the biology of arthropods. The position will be based in UW-Madison's Department of Zoology.

Arthropods have featured prominently in the evo-devo literature, owing to their short generation times, tractability in laboratory environments, and modular segmental architecture. The rapid dissemination of genomic technologies and resources has also contracted the gap between model organisms and emerging systems for study of evolution. Targets of ongoing/planned projects include the evolution of arthropod appendage patterning and the evolution of respiratory organs in arachnids.

Candidates should be self-motivated, intellectually curious, focused, determined, and able to function as part of a team. Independent research questions are highly encouraged. Training of graduate students will vary depending on the scope of their project, but will invariably incorporate (a) workshops in analysis of next-generation sequence data classes, and (b) workshops in programming. Techniques implemented in the lab will include sequencing and analysis of developmental transcriptomes; gene expression; microinjection; RNA interference; CRISPR/Cas9; and imaging on various systems.

Successful candidates should anticipate training with at least three non-model organisms. General imaging and microinjection equipment will be available in the Sharma Lab, with additional imaging facilities in the building (<http://www.botany.wisc.edu/nic/>) or nearby on campus. The Sharma Lab includes space in a dedicated animal care facility, which houses six (three arachnid, one myriapod, two pancrustacean) species. Initial training and mentoring will be intensive and hands-on, and taper off as trained students take charge of their research projects. Regular attendance at scientific conferences will be supported.

While considerations will be made for international students, strong proficiency in written English is expected

of graduate students.

Departmental guidelines, resources, and application information are available at <http://zoology.wisc.edu/grad/Prospective.html>. Information about the research projects of the Sharma Lab is available at <http://www.sharmalabuw.org>. The deadline for the current cycle is 1 December 2015.

Interested applicants should email Prashant P. Sharma at their earliest convenience (psharma37@wisc.edu) with a statement of interest, a curriculum vitae, contact information for 2-3 professional references, and availability for interview by telephone or Skype.

PH.D. POSITION IN ARTHROPOD SYSTEMATICS AND PHYLOGENY

The newly established Sharma Lab at the University of Wisconsin-Madison is seeking a doctoral student for Fall semester of 2016, who is interested in the systematics, phylogeny, and/or biogeography of arthropods. The position will be based in UW-Madison's Department of Zoology.

In terms of described species, arthropods constitute the most diverse group of animals, and thus an ideal group to study the evolution of biodiversity. Through the lens of molecular phylogenies, research projects in the Sharma Lab aim to decipher how various groups are related, how geological history has affected the diversification of endemic lineages, and how the evolution of morphology affects diversification rate. Major ongoing/planned projects include the evolution of Southeast Asian arachnids, and the systematics and phylogeny of Pycnogonida (sea spiders), using a target capture sequencing approach.

Candidates should be self-motivated, intellectually curious, focused, determined, and able to function as part of a team. Independent research questions are highly encouraged. Training of graduate students will vary depending on the scope of their project, but will invariably incorporate (a) workshops in analysis of next-generation sequence data classes, and (b) workshops in programming. Techniques implemented in the lab include sequencing and analysis of transcriptomes and genomes; orthology inference; phylogenetic reconstruction; and comparative methods.

Successful candidates should anticipate training in field-work targeting their taxon of interest. General imaging equipment will be available in the Sharma Lab, with additional imaging facilities in the building (<http://www.botany.wisc.edu/nic/>) or nearby on campus. Access to Illumina MiSeq and HiSeq 2000/2500 platforms

will be made available through the UW Biotechnology Center (<https://www.biotech.wisc.edu>). Initial training and mentoring will be intensive and hands-on, and taper off as trained

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UWisconsin Madison Evolutionary Genomics

Ph.D. Positions in Evolutionary Genomics

The Genetics PhD program at the University of Wisconsin - Madison welcomes applications from students with interests in population genetics, evolutionary genomics, and related topics.

The Genetics program has an especially strong contingent of faculty with evolutionary interests: <http://www.genetics.wisc.edu/EvoPopGenetics.htm> A more complete list of evolution faculty at UW Madison is available through the J. F. Crow Institute for the Study of Evolution: <http://www.evolution.wisc.edu/> Students are encouraged to contact faculty of particular interest before applying. Students typically rotate in three labs during their first semester before choosing an advisor.

Full financial support for Genetics PhD students is available from training grants, research assistantships, and teaching assistantships (one semester of teaching is required).

Madison offers an exceptional quality of life in a beautiful natural setting. Downtown and campus are bordered by lakes, and the area includes a number of long distance bike trails. Madison features diverse art, music, and cultural offerings. A great farmers market and a focus on local food are complemented by a wide range of international restaurants. <http://www.visitmadison.com/media/rankings/> Interested students should apply by December 1: <http://www.genetics.wisc.edu/PHDProspective.htm> John Pool Assistant Professor Laboratory of Genetics University of Wisconsin-Madison jpool@wisc.edu

"jpool@wisc.edu" <jpool@wisc.edu>

UWisconsin Madison Insect Genotypic Variation

Graduate Research Assistantship

Community Genetics of Plant-Insect Interactions

University of Wisconsin, Madison

Funding will be available (2016) at the University of Wisconsin-Madison to support graduate research, at the Master's or Ph.D. level, on insect community ecology in relation to genotypic variation in aspen (*Populus tremuloides*). This work is part of a larger project that will employ genome-wide association (GWA) studies to link variation in foliar insect communities and plant phenotypic traits to their underlying genetic/ genomic components. Applicants may pursue admission to UW graduate programs in Entomology, Zoology or Forestry.

The University of Wisconsin-Madison is a premier institution for research in entomology, ecology and evolution, and has ranked among the top five research universities in the United States for each of the past 25 years. Graduate students have the opportunity to participate in the thriving Ecology (<http://ecology.wisc.edu/>) and Evolutionary Biology (<http://www.evolution.wisc.edu/>) communities at UW-Madison.

Qualifications: Highly motivated individuals with a strong academic background in entomology or ecology, as well as excellent quantitative and communication skills, are encouraged to apply. Candidates must have experience with, and/or be willing to learn, field insect taxonomy. They should be able to work independently and as part of a collaborative research team. Preference will be given to candidates who are available to begin work in June 2016.

Stipend/benefits: A 50% Graduate Research Assistantship is available beginning summer 2016, providing a stipend of \$21,600 (12 mo.), tuition waiver, and excellent medical/dental health plans at low cost.

Applications: Questions about the position may be directed to Rick Lindroth (lindroth@wisc.edu). Interested candidates should e-mail Graduate Student Services Coordinator Sara Rodock (rodock@wisc.edu) a single PDF file containing the following information:

* Cover letter outlining research interests, academic and professional backgrounds * Resume * Copies of transcripts (unofficial copies acceptable) * GRE scores (if not

available, indicate when exam will be taken) * Names and contact information for three references

Applications will be reviewed upon receipt. Promising candidates will be requested to submit a formal application to a UW-Madison graduate program in Entomology, Zoology (Ecology), or Forestry. Note that the application deadline for Zoology is Dec. 31, 2015.

Richard L. Lindroth, Ph.D. Professor and Associate Dean for Research

608-262-6792 (Deans office) 608-263-6277 (Lab office) 146 Agriculture Hall 1450 Linden Drive University of Wisconsin-Madison Madison, WI 53706 U.S.A. <http://labs.russell.wisc.edu/lindroth/> Rick Lindroth <richard.lindroth@wisc.edu>

visit: <http://www.uwm.edu/~latch> . To learn more about graduate studies in the Department of Biological Sciences at UWM, visit: <http://www.uwm.edu/Dept/-Biology/Docs/Grad/gradindex.html>. The Department has an active research group in Behavioral and Molecular Ecology <http://www.preferencefunctions.org/-behavioral-molecular-ecology.html> If you are interested, please send me an email including a statement of research interests and a CV (including GPA and GRE scores). I will start reviewing applications immediately, and will continue reviewing applications until the position is filled. Qualified candidates will also have to apply to the UWM Graduate School (deadline Jan 1, 2016). Anticipated start date is June or August 2016.

Emily K Latch <latch@uwm.edu>

UWisconsin-Milwaukee BatEvolution

Graduate position (MS or PhD) in Bat Molecular Ecology in the lab of Dr. Emily Latch, Department of Biological Sciences, University of Wisconsin-Milwaukee.

The Latch Lab is seeking a highly motivated and enthusiastic graduate student to join the Ecology and Evolutionary Biology program in the Department of Biological Sciences at the University of Wisconsin-Milwaukee. The student would work on a federally-funded project investigating bat molecular ecology, in collaboration with the U. S. Forest Service (Rhinelander, WI), beginning Summer or Fall 2016. The student will help to design a project investigating multi-scale movement ecology in bats using genetic techniques, with the goal of helping populations expand following white-nose syndrome (WNS) exposure.

Qualified candidates should have completed a B. S. in Biological Sciences or a related discipline, and be broadly interested in the evolution, conservation, and management of vertebrate populations. Candidates should have experience and interest in combining population genetics, landscape ecology, and wildlife biology. Funding in the form of assistantships, research support, and travel grants are available for qualified candidates.

Research in the Latch Lab employs molecular genetic tools and statistical genetic methods to address fundamental questions in vertebrate population genetics and evolutionary ecology. Many projects have an applied focus, helping to inform conservation and management programs. For more information about the Latch Lab,

UWisconsin-Milwaukee SnowshoeHareConsGen

Graduate position (MS) in Snowshoe hare genetics in the lab of Dr. Emily Latch, Department of Biological Sciences, University of Wisconsin-Milwaukee.

I am seeking a highly motivated and enthusiastic MS student to work on a collaborative research project investigating snowshoe hare genetics. The student would help to design a project investigating abundance and spatial genetic structure of snowshoe hare in the Upper Peninsula of Michigan.

Qualified candidates should have completed a B. S. in Biological Sciences, Wildlife Ecology, or a related discipline, and be broadly interested in the evolution, conservation, and management of vertebrate populations. Experience working in a molecular or population genetics lab is a plus. Funding in the form of assistantships, research support, and travel grants are available for qualified candidates.

Research in the Latch Lab employs molecular genetic tools and statistical genetic methods to address fundamental questions in vertebrate population genetics and evolutionary ecology. Many projects have an applied focus, helping to inform conservation and management programs. For more information about the Latch Lab, visit: <http://www.uwm.edu/~latch> . To learn more about graduate studies in the Department of Biological Sciences at UWM, visit: <http://www.uwm.edu/Dept/-Biology/Docs/Grad/gradindex.html>. The Department has an active research group in Behavioral and Molecular Ecology <http://www.preferencefunctions.org/->

[behavioral-molecular-ecology.html](#) If you are interested, please send me an email including a statement of research interests and a CV (including GPA and GRE scores). I will start reviewing applications immediately, and will continue reviewing applications until the position is filled. Qualified candidates will also have to apply to the UWM Graduate School (deadline Jan 1, 2016). Anticipated start date is August 2016.

Emily K. Latch Associate Professor Dept. of Biological Sciences University of Wisconsin - Milwaukee 3209 N. Maryland Ave. Milwaukee, WI 53211

Email: latch@uwm.edu Tel: 414-229-4245 Web: <http://www.uwm.edu/~latch> "latch@uwm.edu" <latch@uwm.edu>

UZurich 2 EvoDevo

This is a re-advertisement of a previous post for various reasons.

Two PhD positions.

University of Zurich, Institute of systematic Botany and Institute of Plant Biology.

RESEARCH PROJECT:

The most prominent biphasic organisms are multicellular land plants, where a haploid gametophyte phase alters with a diploid sporophyte phase. It is widely agreed that embryophyte land plants have originated from a haplontic ancestor with the evolution and subsequent elaboration of the sporophyte and a parallel reduction of the gametophyte phase. The bryophytes, the most basal group of extant land plants, have subordinate, unbranched, monosporangiate and upright sporophytes that remain attached to and nurtured by the gametophyte generation. By contrast, vascular land plants have established complex branched sporophytes consisting of a diversity of vegetative and reproductive organs. In spite of its evolutionary significance, information on the detailed developmental and genetic mechanisms underlying the elaboration of the sporophyte phase remains fragmentary. Advancement in the field is primarily hindered by the lack of appropriate model systems in basal groups of land plants.

Our project proposes to fill this gap by providing a detailed account on the regulatory mechanism governing sporophyte development in the most basal group of extant land plants, the bryophytes. Importantly, we have recently established two new model species, one

for mosses and one for hornworts, making this research feasible. More specifically, we propose (1) to investigate the regulatory networks governing the development of the sporophyte in two major groups of bryophytes, the mosses and hornworts, using laser capture micro dissection assisted RNA sequencing; (2) to reconstruct the putative regulatory networks of bryophyte sporophyte development and to assess their homology with developmental mechanisms of angiosperms; and (3) finally, to begin to experimentally verify the regulatory function of candidate genes using reverse genetics.

This project is funded by a Swiss National Science Foundation (SNSF) grant.

The Institute of Systematic Botany hosts research groups working on the evolutionary and ecological drivers of biodiversity, on the macroevolution of plants, on plant-insect interactions/pollination, on the evolution of mating systems, hybridization and speciation. The Institute of Plant Biology hosts many groups working on plant molecular and developmental biology, epigenetics, community genomics and plant adaptation. Both institutes are housed in the beautiful Botanical Gardens and host a diverse community of researchers in plant biology.

Ideal candidates will have an MSc in biology with a specialization in evolution, developmental genetics and/or bioinformatics. They should be experienced in laboratory techniques (DNA/RNA extraction, PCR and RT-PCR, DNA sequencing, molecular cloning, plant transformation, In Situ Hybridization) with advanced skills in handling, analyzing and interpreting high-throughput next-generation sequencing and RNA-seq data. The position is initially for three years. Selected candidates will be enrolled in one of the two affiliated PHD schools in evolution or plant sciences.

CLOSING DATE: The positions are opened until filled, but all application material including CV, a summary of research experience, a letter of motivation, copies of relevant publications (published or submitted) and names and contact information of three reference persons should be received by the 15 of December 2015 to ensure full consideration. The position will start at the earliest possible date but it is negotiable (January-February 2016). Candidates should indicate in a cover letter when they could take up the position.

Peter Szovenyi University of Zurich Institute of Systematic Botany Zollikerstr 107 CH-8008 Zurich Phone: (+41) 044 63 48418 <http://www.systbot.uzh.ch/-Personen/ProfessorenundDozenten/szovenyi.html> AND/OR <http://peterszovenyi.weebly.com> peter.szovenyi@systbot.uzh.ch

UZurich MouseSelfishGenes

PhD - Evolutionary genetics of a selfish gene in house mice

Selfish genes are genetic elements that “drive”, this is, they are transmitted to more than 50% of offspring in diploids, and therefore are able to rapidly spread within populations. This generates conflict within the genome, as alternative alleles, which may give higher fitness to the genome, are transmitted less often to offspring. The effects of such conflicts are widespread. With the advent of new technology for creating synthetic driving elements able to genetically transform wild populations of animals, it is becoming increasingly important to understand how ecology and evolution affect the success of selfish genes.

Our intensive longterm field study of a large population of wild house mice provides a rich source of material for investigating the effects of a selfish gene, the t haplotype. Our field and laboratory studies, ranging from animal behaviour to genomic analyses, have revealed that the t haplotype influences male reproductive success in the wild, male success in sperm competition in the lab, female activity levels, female lifespan, and MHC diversity.

In the first part of this project you will analyse to what extent fitness of wild mice is influenced by quantitative trait loci associated with the t haplotype versus other regions of the genome, using fitness estimates from our longterm study, an extensive genetic pedigree, and a large SNP dataset from genotyping arrays. In the second part you will perform an experiment to test the effect of population density on spread of the t haplotype using replicate captive populations. While much of the animal husbandry is supported by animal care technicians, you will also contribute to animal care.

The ideal applicant is interested in evolutionary and behavioural ecology, is highly motivated and independent, has skills in statistical analysis of large datasets, and experience in handling animals. A background in quantitative genetic analysis, including QTL mapping, is an asset. A MSc degree in a relevant field is required.

The student will participate in the PhD program in Evolutionary Biology at the Institute for Evolutionary Biology and Environmental Studies at the University of Zurich. Salary is available for 3 years and starts at

CHF 47,040 per year. The working language in the laboratory is English. German skills, although helpful, are not essential.

Screening of applicants will start on October 19, 2015 and continue until the position is filled. Ideally, the candidate would start in January 2016. Please send the following application material in a single PDF file to anna.lindholm@ieu.uzh.ch: * Cover letter explaining your motivation and expectations * CV, including any publications * One page summary of your MSc degree * Contact information for at least two references

PD Dr Anna Lindholm Independent Group Leader Institute for Evolutionary Biology and Environmental Studies University of Zurich Winterthurerstrasse 190 8057 Zurich Switzerland +41 44 6355276 anna.lindholm@ieu.uzh.ch <http://www.ieu.uzh.ch/staff/leaders/-alindholm.html> “anna.lindholm@ieu.uzh.ch” <anna.lindholm@ieu.uzh.ch>

Vienna SymbioticSpeciation

PhD Position in Symbiotic Speciation, Genetics & Microbiology at the Medical University of Vienna, Austria

A PhD position funded by the Austrian Science Fund (FWF) is available to study the impact of the endosymbiotic bacteria *Wolbachia* on physiology, sexual behavior and de novo speciation of the model system *Drosophila*.

This intracellular bacterium is well known as the prime reproductive parasite of insects by causing cytoplasmic incompatibilities, feminization, parthenogenesis or male killing, but depending on their evolutionary stage, it also can provide adaptive fitness benefits to insect hosts, such as nutritional provisioning or pathogen protection. We recently found that in some *Drosophila* species *Wolbachia* specifically colonize defined host brain regions that orchestrate sexual behavior of male and female flies. Furthermore we found that even slight perturbations of this intimate host-symbiont homeostasis can foster de novo speciation of *Drosophila* in the wild plus under experimental conditions in our laboratory.

In this newly started FWF research project we aim to decipher the temporal and functional dynamics of this *Wolbachia*-*Drosophila* symbiosis in two different *Drosophila* systems, which are currently under speciation in the Neotropics.

The successful candidate will be embedded in the highly

multidisciplinary and collaborative environments at the Department of Cell and Developmental Biology of the Medical University of Vienna.

Applicants should hold a master's degree in biology, genetics, microbiology, or a related discipline. We are looking for enthusiastic scientists with proficient communication skills, who are good team players. Previous experiences with DNA & RNA techniques, sequence analyses, fly work, FISH assays, immunocytochemistry and/or microscopy techniques are advantageous.

Please send applications (including CV, a letter of intent and contact information of at least two referees) to the address below. Informal enquiries are welcome.

Contact: Wolfgang Miller, Lab Genome dynamics, Center of Anatomy and Cell Biology, University of Vienna, Austria E-Mail: wolfgang.miller@meduniwien.ac.at Phone: 0043 1 40160 37750

Website: Department for Cell and Developmental Biology | Department for Cell and Developmental Biology | View on www.meduniwien.ac.at | Preview by Yahoo |

Wolfgang J. Miller, PhD Lab Genome Dynamics, Dept Cell & Developmental Biology Center of Anatomy and Cell Biology, Medical University of Vienna, Schwarzschanerstr. 17, AHP 36 A-1090 Vienna AUSTRIA.

email: wolfgang.miller@meduniwien.ac.at <http://www.meduniwien.ac.at/celldev/miller/> Tel. 0043 1 40160 37750 Fax 0043 1 40160 937790

Wolfgang Miller <wolfmanmiller@yahoo.com>

WageningenU SexualSelection

PhD position: Molecular Ecology / Sexual Selection

Job description

We offer a PhD position (1.0 FTE) to undertake research on female mate choice and sexual selection in livebearing fish within the Experimental Zoology group at the Animal Science Department of Wageningen University, the Netherlands. This position is financed by the Netherlands Organisation for Scientific Research (NWO).

The aim of this project is to study differences in sexual selection among natural populations of the livebearing fish *Poeciliopsis retropinna* in Costa Rica. The project will quantify the relationships between local environmental conditions, reproductive strategy (placentation,

superfetation) and multiple paternity (polyandry). This will then be linked to female mate choice by looking at pre-copulatory selection (based on male phenotype and behaviour), post-copulatory selection (sperm competition) and post-fertilization selection (genetic compatibility, asymmetric provisioning). This project will use an integrated approach to study sexual selection by combining mate choice experiments, genetic analyses, comparative analyses of male genitalia and an evaluation of sperm locomotion. The PhD student will use established lab populations housed at the Aquatic Research Facilities of Wageningen University. The project is supervised by Dr. Bart Pollux and Prof. Johan van Leeuwen at Wageningen University.

Requirements

For this interdisciplinary project we look for an enthusiastic, result-driven person with a MSc degree in biology, with a specialization in Molecular Ecology and a strong interest in evolutionary questions. The candidate should have excellent research and communication skills, be creative and independent (yet at the same time a team player) and be proficient in English (both oral and written).

Conditions of employment & Organisation

As a PhD candidate, you will be offered a fulltime position (38 hours) for 4 years, after which you should have completed your PhD thesis and individual training plan. The salary for a PhD candidate starts at 2.125,- gross per month in the first year and extends to a maximum of 2.717,- gross per month in the fourth year (in accordance with the Collective Labour Agreement for Dutch Universities).

Additional information

For further information, please contact Dr. Bart Pollux (bart.pollux@wur.nl or b.pollux@gmail.com; <http://www.bartpollux.nl>).

The application deadline is 15 November 2015. Applications should include a letter of motivation, CV and names of three references. Please send your application via e-mail directly to Dr. Pollux or use the application button at Academic Transfer: <https://www.academictransfer.com/employer/-WUR/vacancy/30083/lang/en/> . "Pollux, Bart" <bart.pollux@wur.nl>

WashingtonStateU Vancouver PlantMicrobe

The Porter lab at Washington State University, Vancouver, is recruiting graduate students for fall 2016. Our lab explores the evolutionary and ecological dynamics of plants and their microbial symbionts to test fundamental theory about cooperative interactions. We focus on environmentally acquired symbioses between plants and microbial mutualists such as nitrogen-fixing rhizobium bacteria. Our research projects range from the field, to the lab to the greenhouse and integrate approaches from quantitative genetics, ecological genetics and genomics.

Graduate students will have the opportunity to participate in the PI's collaborative multi-year NSF-funded project with the Friesen lab at Michigan State University to investigate evolutionary and ecological shifts in plant-symbiont mutualism during plant invasions from Europe into North America. Students are also welcome to develop a research program aligned with their own interests and expertise on related topics in plant or microbial evolutionary ecology. The lab currently supports diverse projects ranging from examining how plant-soil-microbial feedbacks impact succession post-eruption on Mount Saint Helens, to testing the importance of microbes to plant adaptation to heavy metals, to quantifying natural selection on cheating strategies in mutualism. Visit our research page to read more about the lab: <http://research.vancouver.wsu.edu/porter-lab>. Graduate students will be supported through a combination of TAs and research assistantship in the Porter lab (5-6 years for PhD, 2 for MS) with the opportunity for summer funding. The PI will work with students to develop competitive applications for independent graduate funding. WSU is a vibrant, rapidly growing institution located within the greater Portland/Vancouver metropolitan area, near the Columbia River, Cascade Mountains and coastal ocean, and as such offers an exceptional quality of life.

Interested students should send a copy of their CV, description of research interests, and GPA to stephanie.porter@wsu.edu.

“stephanie.porter@wsu.edu”
<stephanie.porter@wsu.edu>

WilliamMary MastersProgramAssistantships

Masters Graduate Assistantships in Ecology and Evolution at the College of William and Mary

The Biology Department at the College of William and Mary is recruiting new research Masters students in ecology and evolution to start in Fall 2016. Full assistantships are provided to nearly all students.

We offer a two-year research-intensive Masters program where students are supported by teaching assistantships and full tuition waivers. For many students, getting a Masters in two years and writing publications and grants is the ideal preparation for applying to highly competitive Ph.D. programs or jobs. We have a great track record of our recent MS students going on to excellent PhD programs and professional positions. With a low student-to-faculty ratio (approximately 10 new students each year with 23 full-time faculty) we can offer an intimate and highly personalized research and education experience.

Importantly, we have real strengths in many aspects of ecology and evolution. We are one of the few smaller universities that have many evolutionary biologists and ecologists on their faculty, including: John Swaddle (sexual selection/behavioral ecology), Jon Allen (evolution and development), Joshua Puzey (evolutionary genomics), Helen Murphy (evolutionary genetics/experimental evolution), Drew LaMar (mathematical modeling), Paul Heideman (physiological evolution), Dan Cristol (behavioral ecology/ecotoxicology), Harmony Dalgleish (forest ecology), Laurie Sanderson (functional ecology), Randy Chambers (wetlands ecology), Kurt Williamson (viral ecology), and Matthias Leu (conservation/landscape ecology). The proximity of William and Mary to county, state, and federal parks as well as the Chesapeake Bay allows for extensive field research opportunities.

Deadline for applications is February 1, but you should contact potential advisors soon. You can get general information about our program from the department website: <http://www.wm.edu/as/biology/graduate/index.php> and more on potential advisors here:

Harmony Dalgleish: <http://wmpeople.wm.edu/hjdalgleish> Kurt Williamson: <http://wmpeople.wm.edu/kewilliamson> Randy Chambers: <http://rmcham.people.wm.edu/> Jon Allen:

<http://wmpeople.wm.edu/jdallen> Dan Cristol: Murphy: <http://www.helenmurphy.net> Laurie
<http://wmpeople.wm.edu/dacris> Matthias Leu: Sanderson: <http://slsand.people.wm.edu> Paul Heide-
<http://wmpeople.wm.edu/mleu> Drew LaMar: man: <http://pdheid.people.wm.edu/> Joshua Puzey:
<http://www.people.wm.edu/~mdlama/> Helen Swaddle: <http://puzeylab.weebly.com> John Swaddle: <http://jpswad.people.wm.edu/>

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AlbionCollege InvertEvolution

INVERTEBRATE BIOLOGIST

The Biology Department of Albion College invites applications for an INVERTEBRATE BIOLOGIST, full-time, tenure-track ASSISTANT PROFESSOR position beginning August, 2016. A PhD in an appropriate field is required, with preference given to candidates with teaching and postdoctoral experience. The successful candidate will share responsibilities in our introductory Ecology, Evolution, and Biodiversity course, teach a majors' course in Invertebrate Zoology with a field component, and teach an upper-level course in their area of expertise (e.g. Behavioral Ecology, Entomology, Evolution, Marine Biology, Neuroscience, Systematics/Bioinformatics, etc.). The candidate will also be expected to develop a research program involving undergraduate students. The Biology Department resides in a well-equipped, interdisciplinary science complex with state-of-the-art teaching and research facilities and a nature center adjacent to campus. Class sizes are small, allowing for close faculty/student interaction, providing opportunities for innovative, active approaches to teaching and learning. Teaching is at the heart of our mission, and we're committed to building student-mentoring relationships. Letters of application, current curriculum vitae, statements on teaching philosophy and research interests, recent reprints, copies of graduate and undergraduate transcripts, should be submitted electronically to: <https://www.albion.edu/hr/online-employment-application>. Letters of support should be sent by recommenders to fdavis@albion.edu. All materials are due by October 15th, 2015. Albion College is a private liberal arts college of approximately 1300 students, situated in a culturally diverse community in south-central Michigan within an hour's drive of the University of Michigan, Michigan State University, and Western Michigan University. Albion is dedicated

to the highest quality in undergraduate education and committed to diversity as a core institutional value. The College is committed to a policy of equal opportunity and non-discrimination on the basis of sexual orientation and of race, color, national origin, religion, sex, age or disability, as protected by law, in all educational programs and activities, admission of students and conditions of employment. We are especially interested in candidates who will contribute to a campus climate that supports equality and diversity. Visit our Web site at <http://www.albion.edu>. Sheila Lyons-Sobaski, Ph.D.

Associate Professor of Biology 611 East Porter Street
Biology Department Albion, MI 49224

Phone: 517/629-0649 Fax: 517/629-0264

Sheila Lyons-Sobaski <ssobaski@albion.edu>

AustralianNatIU FacilityManager Ecogenomics

Facility manager, The Australian National University

We seek a motivated and accomplished scientist to establish and operate a new ANU-CSIRO Ecogenomics and Bioinformatics Facility. This newly built and equipped facility will promote novel methods for genomic analysis of biodiversity in natural and agricultural ecosystems as part of a broader ANU-CSIRO partnership around transformational agriculture. The appointee will have extensive experience in library preparation for next-gen sequencing, ability to innovate and train users in emerging methods and to maximise collaboration between empirical genomicists and bioinformaticians using the facility.

The ANU College of Medicine, Biology and Environment (CMBE) brings together medical, biological, population health, psychological and environmental sciences in six

schools: The ANU Medical School, The Fenner School of Environment and Society, The John Curtin School of Medical Research, the Research School of Biology, the Research School of Population Health, and the Research School of Psychology. Together the schools integrate high level research with a research-led curriculum that encompasses all of these different areas.

The University actively encourages applications from Aboriginal and Torres Strait Islander people. For more information on employment opportunities, contact our Indigenous Employment Consultant on indigenous.employment@anu.edu.au ANU values diversity and inclusion and believes employment opportunities must not be limited by socio-economic background, race, religion or gender. For more information about staff equity at ANU, visit <http://hr.anu.edu.au/staff-equity> For further information, please contact: Professor Craig Moritz, Email: craig.moritz@anu.edu.au or Phone: (02) 6125 5651

For further information, and to apply, please go to: <http://jobs.anu.edu.au/cw/en/job/505445/facility-manager> – Craig Moritz Research School of Biology & Cntr for Biodiversity Analysis Australian National University +61 2 6125 5651 (CM office) +61 2 6125 9492 (via Claire, M-W am only)

gekkojessie@gmail.com

BarnardC ColumbiaU EvolutionaryBiol

Assistant Professor of Biology

(Evolutionary biologists are encouraged to apply)

The Department of Biology at Barnard College, Columbia University, seeks a full-time, tenure-track Assistant Professor (starting July 2016) to teach undergraduates and establish an active, externally funded research program. We are interested in candidates who are broadly trained and address questions at the physiological and/or whole-organism level. Teaching responsibilities include an advanced lecture, laboratory, and seminar course in the candidate's area of specialization, and participation in core courses required for the major. Ph.D. and postdoctoral experience required; teaching experience desirable. Applicants should electronically submit cv, research and teaching statements, three representative publications, and contact information for three references from whom we can solicit recommendation

letters. Please apply at <http://careers.barnard.edu/postings/1774>. Review of applications begins November 2. Barnard College is an Equal Opportunity Employer and is actively committed to creating a diverse and inclusive community. We especially encourage women and candidates from diverse backgrounds to apply.

Regards, Sarah

Sarah Boorsma <snickel@barnard.edu>

Bayer PlantStatisticalGenetics

I believe this job should fit the evolutionary biologist bill from what the recruiter told me:

Bayer is a global enterprise with core competencies in the Life Science fields of health care and agriculture. Its products and services are designed to benefit people and improve their quality of life. Bayer CropScience (BCS), an Equal Opportunity Employer, is a subgroup of Bayer AG. It is one of the world's leading innovative crop science companies in the areas of crop protection, non-agricultural pest control, seeds and traits. At Bayer you have the opportunity to be part of a culture where we value the passion of our employees to innovate and give them the power to change.

The primary responsibility of this role, Graduate Scholar Biostatistics is to:

- .Proactively identify, develop, and incorporate new algorithms and statistical tools to facilitate bioassay optimization in the lab and in the greenhouse;
- .Support agronomic development and product development teams in the analysis of large datasets and to translate field trial data into practical knowledge;
- .Build statistical, quantitative genetics, and computing mathematics expertise on the team;
- .Train research staff in experimental design, basic statistical concepts, and the use of relevant statistical tools;
- .Contribute to building the internal critical mass on molecular breeding and quantitative genetics. Liaise with external experts and opinion leaders on these topics;
- .Develop, test, and document novel statistical analysis tools;
- .Be able to communicate effectively through listening, documentation, and presentation, especially using compelling visualization tools to share analysis and interpretation of data;
- .Provide analysis and feedback about experimental results to supervisors, highlighting important results and defining next step experiments;
- .Coordinate and cooperate on research activities with peers, supervisors, and subor-

dinates; .Communicate effectively by listening, documentation, and presentation; .Broad understanding of instrumentation and scientific principles; .Works with external service providers or outsourcing providers.

Your success will be driven by your demonstration of our LIFE values. More specifically related to this position, Bayer seeks an incumbent who possesses the following:

.M.S. in Biostatistics, Statistics, Ecology and Evolution, Plant Population Genetics, Quantitative Genetics, plus 1+ years of relevant experience; or PhD in Biostatistics, Statistics, Ecology and Evolution, Plant Population Genetics, Quantitative Genetics; .Previous industry experience, or experience with microbial/biologicals is preferred; .Knowledge of plant statistical genetics and/or previous experience in plant breeding is an asset and exposure to Bayesian statistics; .Expertise in statistical analysis software R is essential with some exposure to Shiny; .Knowledge of other programming languages is an asset (Unix, Python); .An understanding of agronomic approaches and cropping production systems; .Ability to conceptualize, design, and execute experiments that address research questions.

Bayer offers a wide variety of competitive compensation and benefits programs. If you meet the requirements of this unique opportunity, and you have the “Passion to Innovate” and the “Power to Change”, we encourage you to apply now.

Thank you for posting this!!!

Mit freundlichen Grüßen / Best regards,

Frank M. Cherup Corporate Recruiter Bayer HRServices
- Recruiting One HR

Bayer Corporation 100 Bayer Road Pittsburgh, PA
15205-9741 USA Phone: (412) 778-6733 Fax: 1-888-473-
1001 Email: frank.cherup@bayer.com Company Site:
www.bayerus.com Career Site: www.career.bayer.us
Frank Cherup <frank.cherup@bayer.com>

BostonCollege 3yr TeachingEvolution

Boston College: Biology Department

Biology Full-Time Non-Tenure Track Faculty in Ecology
& Evolution

Location: Chestnut Hill, MA

The Biology Department at Boston College invites appli-

cations for a full time non tenure-track faculty position in Ecology and Evolution, with a 3-year renewable contract. The appointment will be at the level of Assistant or Associate Professor of the Practice, and we welcome applicants with expertise in any area of ecology from micro- to macroscopic. We are especially interested in individuals who are familiar with novel approaches to ecological questions and can invigorate our Ecology and Evolution course for biology majors. A PhD is required (post-doctoral experience preferred), and candidates are expected to have a record of excellence and productivity in research.

Qualifications

Candidates must demonstrate commitment to undergraduate teaching as informed by current practice and scholarship in the field and have an interest in expanding the diversity of our biology graduates. The teaching load is 3/2 and in addition to the foundational course in Ecology and Evolution will include intermediate and advanced level courses within their specialty. The incumbent will have opportunities to engage undergraduates in research through structured research lab courses or independent projects. The successful candidate will also be expected to participate in academic advising and departmental and college service. This appointment will begin on July 1, 2016.

Application Instructions

Applicants should submit a cover letter, curriculum vitae, statement of teaching interests and arrange to have three letters from professional referees submitted online via interfolio at: apply.interfolio.com/30759.

The teaching statement should indicate how the applicant will leverage their research accomplishments into lecture and laboratory experiences for undergraduates. Review of applications begins October 1, 2015 will continue until the position is filled. This institution is using Interfolio's ByCommittee to conduct this search. Applicants to this position receive a free Dossier account and can send all application materials, including confidential letters of recommendation, free of charge.

Apply Now For Free For help signing up, accessing your account, or submitting your application please check out our help and support section or get in touch via email at help@interfolio.com or phone at (877) 997-8807.

Boston College is an Affirmative Action/Equal Opportunity Employer and does not discriminate on the basis of any legally protected category including disability and protected veteran status. To learn more about how BC supports diversity and inclusion throughout the university please visit the Office for Institutional Diversity at <http://www.bc.edu/offices/diversity> . Diane Butera

<diane.butera@bc.edu>

“hammer@bu.edu” <hammer@bu.edu>

BostonU MarineGenomics

As part of a major initiative in Marine Global Change, the BU Marine Program and Biology Department invite applications for a tenure-track assistant professor position in Marine Population Genomics, starting July 1, 2016. We seek a candidate using genomic approaches to investigate how marine organisms and populations respond to the effects of global climate change, such as ocean acidification and warming.

Applicants must have a PhD in a relevant field, post-doctoral experience, and a strong publication record. Responsibilities include establishing a research program with extramural funding, and teaching at both the graduate and undergraduate levels. Teaching would include a research-based course in the Marine Semester, as well as a lecture course in the Biology Department curriculum. In addition to being an active participant in the Marine Program, the successful candidate will join a strong and growing genomics research community at Boston University, including possible participation in BU's graduate program in Bioinformatics. The successful candidate will be offered newly renovated laboratory facilities as well as a competitive salary and start-up package.

Review of applications will begin November 1, 2015. Please submit a cover letter, curriculum vitae, statements of research and teaching interests, and three representative reprints, and arrange for three letters of reference to (<https://academicjobsonline.org/ajo/jobs/-6263>).

Inquiries can be addressed to John R. Finnerty (jrf3@bu.edu), Chair, Marine Population Genomics Search Committee. Please visit the following websites for additional information about the Marine Program (<http://www.bu.edu/bump>), the Biology Department (<http://www.bu.edu/biology/>) and Bioinformatics Program (<http://www.bu.edu/bioinformatics/>).

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, or any other characteristic protected by law. We are a VEVRAA Federal Contractor. Women and minorities are especially encouraged to apply.

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(<http://www.bu.edu/bump>), the Biology Department (<http://www.bu.edu/biology/>) and

Bioinformatics Program (<http://www.bu.edu/bioinformatics/>).

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are especially encouraged to apply.

Julia Hammer Mendez Program Manager Boston University Marine Program (BUMP) hammer@bu.edu | bu.edu/bump 617.358.4961

5 Cummington Mall, Room 431 Boston, MA 02215

Julia Mendez <hammer@bu.edu>

three references to Prof. Laurel A. Eckhardt, Search Chair, through the City University Employment online portal (cuny.jobs), entering the Job ID “13244” under “What.” CUNY is an equal opportunity employer and encourages applications from groups underrepresented in the scientific community.

Weigang Qiu <Weigang@GENECTR.HUNTER.CUNY.EDU>

CityUNewYork TheoreticalEvolBiology

Faculty positions Theory and the Biological Sciences

Biology Program and Initiative for the Theoretical Sciences (ITS) The Graduate Center, City University of New York <http://gc.cuny.edu/biology> and <http://www.gc.cuny.edu/its>

The Graduate Center of the City University of New York has launched an Initiative for the Theoretical Sciences (ITS), with the goal of building a multidisciplinary community of faculty, postdoctoral fellows, students, and visitors, all united by their interest in the mathematical description of nature. In the current academic year, we are searching for faculty members whose research interests are focused on the phenomena of life, but whose methods and style are grounded in the traditions of theoretical physics and applied mathematics. Applications will be considered across the full range of biological topics, from the dynamics of single molecules through the behavior of animal groups, to models of evolution and adaptation to changing environments; we are especially interested in candidates whose interests transcend historical boundaries among the subfields of biology.

Appointments will be made through the PhD program in Biology, with affiliations to other doctoral Programs possible (e.g. Physics, Mathematics, Computer Science, Earth and Environmental Sciences), as appropriate. Positions are available at all academic ranks, although it is the preference of the Graduate Center to make appointments with tenure (Associate Professor and above). Applicants are expected to demonstrate an outstanding record of independent research accomplishment and creativity, as well as an interest in mentoring and community building. In particular, faculty recruited in this search will play a crucial role in the further development of ITS, across the full range of intellectual opportunities for theory in the natural sciences.

Applicants should submit CV, a research statement, and

Cornell Lecturer Evolution

The Department of Ecology and Evolutionary Biology (EEB) at Cornell University, invites applicants for a full-time Lecturer position. The successful applicant will play a key role in supporting the transition of the course Evolutionary Biology and Biodiversity (BIOEE 1780) from a traditional lecture course format to an active learning format focused on student participation and group problem solving.

Cornell University has a renowned tradition of excellence in the life sciences, including the instructional engagement of an exceptionally talented and intellectually motivated undergraduate student body. The person who fills this Lecturer position will support Cornell’s flagship Introduction to Evolutionary Biology and Diversity course (BIOEE 1780), which attracts more than 500 students per year as a required course for all Biology and Environmental Studies majors. This course covers central concepts in evolutionary biology (including phylogenetics, natural selection, sexual selection, macroevolution, population genetics, and paleontology) as well as the overall diversity of life on Earth (presented in a ‘tree of life’ evolutionary framework). As a component of Cornell’s Active Learning Initiative, this course is being restructured to stress student engagement by adopting a variety of innovative active learning instructional methods. The Lecturer will work with a rotating and highly collaborative group of faculty who alternate in leading the course and contributing subject modules. There will be some flexibility over the summer months for the Lecturer to define their research interests. Approximately 75% of the effort in this position will be focused directly on implementing and assessing active learning methods.

This position is a full-time 9-month appointment, paid over 12 months. Currently, there is funding for 3 years. At least a half-time FTE could be renewed indefinitely beyond 3 years, contingent on funding and performance, and we are committed to seeking additional sources to

make this a full-time position. The starting salary will be commensurate with training and experience. The anticipated start date for the appointment is July 1, 2016, although an earlier start date would be possible.

We are now reviewing applications and will continue until a suitable candidate is found. To apply applicants should submit a single pdf file including their CV, a statement of teaching philosophy and experience, a statement of research experience, and the names, phone numbers, and email addresses of three individuals who can serve as references to <https://academicjobsonline.org/ajob-jobs/6333>.

Qualifications:

The candidate should have a PhD in Evolutionary Biology, Biology Education, or a related field, and have excellent organizational, interpersonal communication, team building, and collaboration skills. A track record in undergraduate teaching is required, and previous experience developing active learning curricula, assessing learning outcomes, and coaching educators is highly desirable.

Cornell University is an innovative Ivy League university and a great place to work. Our inclusive community of scholars, students and staff impart an uncommon sense of larger purpose and contribute creative ideas to further the university's mission of teaching, discovery and engagement. Located in Ithaca, NY, Cornell's far-flung global presence includes the medical college's campuses on the Upper East Side of Manhattan and Doha, Qatar, as well as the new Cornell Tech campus to be built on Roosevelt Island in the heart of New York City.

Diversity and Inclusion are a part of Cornell University's heritage. We are a recognized employer and educator valuing AA/EEO, Protected Veterans, and Individuals with Disabilities.

"robertreed@cornell.edu" <robertreed@cornell.edu>

DalhousieU BioinformaticsModeling

Canada Research Chair (Tier II) in Stochastic Modeling with Application to Bioinformatics

Dalhousie University invites applications from outstanding candidates in stochastic modeling of complex data structures, with application to bioinformatics, to be nominated for a Tier II Canada Research Chair.

The priorities of the appointment are the excellence of

the candidate and the ability to initiate a world-class research program. The successful candidate will have a PhD in the Mathematical Sciences, with expertise in stochastic modeling, and inter-disciplinary experience in applying such models to real-world bioinformatics data.

Dalhousie is a world leader in several areas of bioinformatics, with the hub of bioinformatic research being the Centre for Comparative Genomics and Evolutionary Bioinformatics (<http://cgeb.dal.ca>). Networks play a role of central importance, with areas of interest including metabolic and ecologic networks, metagenomics and phylogenetic reconstruction.

The successful candidate will be appointed to a tenure stream position at the rank of Assistant or Associate Professor. The position is not conditional on receipt of the Canada Research Chair, but the successful candidate will be expected to be a strong candidate for, and apply for, a Tier II Canada Research Chair position. Canada Research Chairs are research-intensive faculty positions providing the chair holder with an opportunity to grow their research program through the provision of protected time for research. Tier II Chairs are 5 year appointments, renewable once. Details of the program can be found at www.chairs.gc.ca. The start date for the position is July 1, 2016, or as soon as possible thereafter.

Consideration of candidates will begin in October, 2015, and will continue until the position is filled. Applications should include a curriculum vitae, a research proposal (max 3 pages), a statement of teaching interests and experience, and three confidential letters of reference forwarded under separate cover by the referees, to:

Chair, Department of Mathematics and Statistics Chase Building, Room 219 PO Box 15000, 6316 Coburg Road Halifax, N.S. B3H 4R2 Canada

email: chair@mathstat.dal.ca phone: 902-494-2572 fax: 902-494-5130 web: mathstat.dal.ca

Dalhousie is Atlantic Canada's leading research university. The main campus is situated in Halifax - a city known for its youthful spirit, rich history, and scenic waterfront. Dalhousie University is an Employment Equity/Affirmative Action employer. The University encourages applications from qualified Aboriginal people, persons with a disability, racially visible persons and women. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

Edward Susko <edward.susko@gmail.com>

East Carolina University Fish Evolution

Although the ad does not specify evolutionary biology, applications from evolutionary biologists working in fisheries would be welcomed.

The Department of Biology at East Carolina University, Greenville, NC invites applications for a nine-month tenure-track position at the Assistant Professor level with expertise in Fisheries Biology, to begin August 15, 2016. We seek a broadly trained individual with a successful, innovative research program that addresses fundamental questions in fisheries biology. In support of ECU's strategic emphasis in coastal research, we seek applicants whose research programs can be applied to coastal ecosystems, including oceanic, estuarine or freshwater ecosystems.

The successful candidate will be expected to establish a vigorous, externally funded research program that involves work in a coastal area; teach undergraduate and graduate-level courses in aquatic sciences such as: fisheries biology, environmental biology, and marine biology; mentor students in the M.S. and Ph.D. programs; and contribute to ECU's research initiatives, centers, and institutes (Biodiversity Initiative, Center for Sustainability, Institute for Coastal Science and Policy). Candidates are expected to engage in university, regional, community, and professional service. Research foci should complement existing ECU research programs, which include groups taking interdisciplinary and ecological approaches. Departmental resources include a high performance computing facility, central environmental lab, genomics core facility, imaging facility, university-owned natural areas, and a fleet of field vehicles and small vessels (capable of electrofishing, trawling, gill netting, hydroacoustic surveys, including a new NSF-funded autonomous wave glider for fisheries research). ECU-AFS is an award-winning student subunit of the American Fisheries Society based in our department. East Carolina University students and faculty have collaborated extensively with scientists in the region at state and federal agencies (North Carolina Division of Marine Fisheries, NC Department of Natural Resources, APNEP, and the NOAA Fisheries Laboratory at Beaufort, NC) as well as academic partners (notably the UNC Coastal Studies Institute as well as UNC system universities, and Duke Marine Laboratory). Please visit our

website at www.ecu.edu/biology for more information on the department.

Minimum Qualifications: A Ph.D. in Biology or Biology-related field with training in fish biology, invertebrate biology, or in fisheries and at least one year of post-doctoral research experience are required. Qualifying degrees must be received from appropriately accredited institutions.

Special Instructions to Applicants: Applicants must complete a candidate profile and submit a cover letter, curriculum vitae, statement of research interests, and a statement of teaching experience/philosophy online at www.jobs.ecu.edu using the position number 934009 - Tenure Track Faculty in Biology, Fisheries Biology. The curriculum vitae should include the names and contact information for at least three references. We will ask top candidates to have three reference letters sent to the Search Committee Chair via email within seven days of notification by the search committee.

Official transcript and original hard-copy reference letters are required upon employment. Inquiries may be directed to Dr. Joseph Luczkovich (luczkovichj@ecu.edu), Search Committee Chair. Review of applications will begin on October 26, 2015 and continue until the position is filled.

Additional Instructions to Applicants: Applicants must complete a candidate profile or staff application (see "Application Types Accepted" below) online via the PeopleAdmin system. In addition, applicants must submit the documents requested in order to be considered for the position.

Application Types Accepted: Candidate Profile (EPA only) Applications will be considered until position is filled. ECU application for vacancy #934009 to ECU Human Resources at www.jobs.ecu.edu. East Carolina University is an Equal Opportunity/Affirmative Action Employer.

Visit this job posting at ecu.peopleadmin.com/applicants/Central?quickFindy742

Christopher Balakrishnan Assistant Professor Department of Biology East Carolina University Howell Science Complex Greenville, NC 27858 252-328-2910 balakrishnanc@ecu.edu www.rebelmouse.com/-EvolutionPirate "Balakrishnan, Christopher" <BALAKRISHNANC@ECU.EDU>

GeorgiaTech EvolutionaryEcol

The ad includes the scope of integration with evolutionary biology (see text). Moreover, I have found that a focus on microbial ecology (again, see text) inevitably includes an evolutionary perspective.

Assistant or Associate Professor in Ecology at Georgia Tech, Deadline: 10/1/2015

As part of a substantial expansion in the biological sciences, the School of Biology at Georgia Tech is seeking applications for tenure-track positions in Ecology from candidates whose research would thrive in our community - <http://www.biology.gatech.edu> Applications are particularly encouraged in the following areas: molecular chemical ecology, microbial ecology, and behaviors and interactions that are mediated by chemical signals and cues. Candidates will be favored whose research integrates well with the department's strengths in chemical ecology, ecology and evolutionary biology, microbiology, or marine ecology.

Candidates should submit an application online at <http://searches.biology.gatech.edu>, including a letter of application, curriculum vitae, statement of research interests and plans, and contact information for three references. Review of applications begins October 1, 2015 and will continue until positions are filled.

Joshua S. Weitz Associate Professor, School of Biology
Courtesy Associate Professor, School of Physics Director, Interdisciplinary Graduate Program in Quantitative BioSciences Georgia Institute of Technology 310 Ferst Dr. Atlanta, GA 30332

email: jswertz@gatech.edu phone: 404-385-6169
office: Cherry Emerson 219 group: <http://ecothery.biology.gatech.edu/> web: <http://www.biology.gatech.edu/people/joshua-weitz> twitter: @weitzlab & @QBioS.GT

(New) Interdisciplinary Graduate Program in Quantitative BioSciences <http://qbios.gatech.edu> (Register for online chats @ QBioS) Next chat, October 2, 12:00pm EDT <http://bit.ly/qbios.gt.webex.chat> (Book Quantitative Viral Ecology, December 2015 <http://press.princeton.edu/titles/10642.html> "Joshua S. Weitz" <jswertz@gatech.edu>

ImperialCollege London 2 EvolutionaryBiol

Imperial College London

Faculty of Natural Sciences

Department of Life Sciences

Lecturer/Senior Lecturer in Conservation Science

Lecturer salary in the range £46,410 - £51,720 per annum

Senior Lecturer minimum starting salary: £57,020 per annum

Imperial College's Department of Life Sciences is looking to make one academic appointment in the area of Conservation Science. The post will be based at the Silwood Park Campus (<http://www3.imperial.ac.uk/-silwoodparkcampus>).

The Lecturer/Senior Lecturer in Conservation Science will contribute to the mission of the Department of Life Sciences at Imperial College London, and further develop and promote the College's work in conservation science. The goal is to improve scientific understanding of biodiversity conservation. In addition, the post holder will be required to contribute to undergraduate and postgraduate teaching within the Department.

The successful candidate will have a good honours degree and a doctorate (or equivalent) in a relevant subject area. You will also have a strong reputation for research and innovation in conservation science commensurate with the current stage of your career, underpinned by a record of high impact journal publications in the field. Current active engagement in interdisciplinary research will be favourably considered. You must also be able to demonstrate the potential to raise significant research funding from UK and EU sources to maintain and enhance the College's leading research activities. Previous experience of teaching at Undergraduate and Masters levels is essential. Experience working for, and/or with, government agencies, non-government organisations and/or donors in the biodiversity conservation sector will be favourably considered. While not essential, quantitative skills (statistics) and/or experience with geographic information systems (GIS) and a previous record of successful postgraduate supervision, would be an advantage.

The successful candidate will have excellent interpersonal, verbal and written communication skills, with an ability to convey ideas and concepts clearly and effectively to a range of audiences through a variety of methods and media. You will also be expected to demonstrate a willingness and ability to build long-term relationships with biodiversity conservation agencies, both locally surrounding the Silwood Park Campus, and more broadly. You must have the ability to lead a research team and manage its finances and staff. You must also have the ability to communicate with, and inspire, students, as you will be expected to contribute to our undergraduate and postgraduate teaching programmes.

For appointment to Senior Lecturer level, in addition to the above, candidates must also have an exceptionally strong research record in conservation science, and a proven track record of securing research funding. You will also be expected to have extensive experience in postgraduate and undergraduate teaching across a range of subjects within Conservation Science, together with a track record of successful postgraduate student supervision and postdoctoral mentoring.

The potential for productive research collaboration with current staff within Imperial's Department of Life Sciences, and the College more broadly will also be carefully assessed.

Fellows and previous applicants are welcome to apply.

Please contact Professor Vincent Savolainen (Deputy Head of the Department of Life Sciences) v.savolainen@imperial.ac.uk for informal queries about the post.

Applications should be made by submitting the completed Lecturer and Senior Lecturer (Clinical and Non-Clinical) application form and Recruitment monitoring form, along with any other relevant supporting documents such as your full CV to Ms Angela Kehoe, Senior HR Manager, Telephone: 00 44 (0) 20 7594 5653, e-mail: a.kehoe@imperial.ac.uk, quoting reference number NS 2015 223 JT.

Closing date: 4 December 2015 (midnight GMT)

Committed to equality and valuing diversity. We are also an Athena SWAN Silver Award winner, a Stonewall Diversity Champion, a Two Ticks Employer and are working in partnership with GIRES to promote respect for trans people.

Imperial College London

Faculty of Natural Sciences

Department of Life Sciences

Lecturer/Senior Lecturer in Quantitative Ecology and/or Evolution

Lecturer salary in the range: £46,410 - £51,720 per annum

Senior Lecturer minimum starting salary: £57,020 per annum

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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>

IndianaUPennsylvania ConservationGenomics

The Position: The Department of Biology at Indiana University of Pennsylvania is seeking a broadly trained conservation genomicist for a nine-month tenure track position beginning in August 2015. Candidates should have research interests in genomic applications to the conservation of wildlife, fishes, or plants at population, community, and/or landscape scales.

Qualifications: Minimum qualifications include a PhD in Biology or a related discipline, relevant teaching experience, and active research in conservation genetics as evidenced by peer-reviewed publications or external grants. Postdoctoral research experience, a track record of successful publishing and grantsmanship, and at least four years of teaching experience is preferred. Candidates must communicate effectively and perform well during interview(s). Candidates selected for on-campus interviews will be expected to provide a research seminar.

The successful applicant will be expected to develop an active, externally-funded research program focused on organismal conservation using analytical and model-based methods with genetic data in wild and captive populations, and will actively involve undergraduate and master students in research. Applicants specialized on a single taxonomic group will be considered, but preference will be given to applicants with broad interests and the ability to work with multiple taxonomic groups on different scales and scopes of research questions. Candidates should have experience with the collection and analysis of genetic data, including, but not limited to, using next-generation sequencing to identify

target markers at individual, population, species, and community scales. Candidates should have the ability to work collaboratively in an interdisciplinary setting to address research questions related to molecular ecology, endangered species, phylogeography, habitat fragmentation, bio-monitoring, disease ecology, and/or energy development. The successful candidate will be expected to participate in the development of a new departmental core laboratory, including the pursuit of external funding. Our department is committed to innovative teaching and research in a student-centered setting based on the Teacher Scholar Model (<http://www.iup.edu/teachingexcellence/> ; <https://depts.washington.edu/g630/Spring/Boyer.pdf>).

Responsibilities: The successful applicant will be expected to a) build an active, externally-funded research program involving undergraduate and master students, b) teach introductory as well as specialty-area courses to majors and non-majors, and c) contribute to shared university governance through participation in departmental, college or university committees, programs, and work groups as appropriate.

How to Apply: Full consideration will be given to completed applications received by 6 November 2015. Review of applications will begin immediately at that time and continue until the position is filled. Required application materials include 1) a cover letter of application, 2) a current and complete curriculum vitae, 3) unofficial undergraduate and graduate transcripts (official transcripts will be needed for hire), 4) a statement of teaching philosophy, 5) a statement of research goals, and 6) three letters of reference. Visit www.iup.edu/employment to apply through our online application system. Please do not email, fax, or mail any documentation.

Biology Department website: <http://www.iup.edu/biology> . Human Resources website: <http://www.iup.edu/employment> . Pennsylvania State System of Higher Education Collective Bargaining Agreement with faculty

Union (APSCUF) <http://www.apscuf.com/members/contract/2011-2015-faculty-cba> IUP is an equal opportunity employer (M/F/H/V). IUP is a member of the Pennsylvania State System of Higher Education. <http://www.passhe.edu/Pages/default.aspx> Melanie Muscatello Indiana University of Pennsylvania

“Ms. Melanie Jean Muscatello” <melanie@iup.edu>

IndianaUPennsylvania EvolutionaryDevelopment

Department of Biology- Assistant Professor of Biology (Anatomy)

The Position: The Department of Biology at Indiana University of Pennsylvania invites applications for a full-time tenure-track position (9-month appointment) in Anatomy at the Assistant Professor level to begin August 2016. Our department is committed to innovative teaching and research in a student-centered setting in accordance with the Teacher Scholar Model.

(<http://www.iup.edu/teachingexcellence/>; <https://depts.washington.edu/g630/Spring/Boyer.pdf>).

Qualifications: We seek an individual with expertise in vertebrate anatomy, who complements existing strengths in the department, and shows the potential for interdisciplinary collaborations. We seek an individual whose research, teaching, or service has prepared them to contribute to our commitment to diversity and inclusion in higher education. Minimum qualifications include a PhD in biology or a related field, prior teaching experience in human anatomy or comparative vertebrate anatomy, and evidence of an active research program such as peer reviewed publications or external grants. Postdoctoral experience is preferred.

The broadly-trained scientist must be capable of teaching both cadaver based human anatomy courses and comparative vertebrate anatomy, along with general biology and upper-level courses in the candidate's area of expertise. Potential areas of research could include: evolutionary developmental biology, functional morphology, or biomechanics. However, additional fields related to anatomy will be considered. Beyond the individual's area of expertise, the candidate should have the ability to foster interdisciplinary collaborations with other departments such as Biochemistry, Geography, Geosciences, Mathematics, or Physics. Candidates should demonstrate outstanding skill and enthusiasm for undergraduate and master's-level education with particular emphasis on developing an active research program that involves students at both levels. Candidates must communicate effectively and perform well during interview(s). Candidates selected for on-campus interviews will be expected to provide a research seminar.

Responsibilities: The successful candidate will be ex-

pected to teach 12 contact hours each semester. Teaching responsibilities will include: comparative vertebrate anatomy, human anatomy, and advanced undergraduate and graduate level biology courses in the candidate's area of expertise. In addition to classroom teaching, we expect our faculty to provide students with opportunities for active learning through hands-on science such as research projects and internship opportunities. The successful applicant will be expected to advise undergraduate and graduate students and contribute to shared university governance through participation in committees and programs at the departmental, college, and university levels, as appropriate.

How to Apply: Full consideration will be given to completed applications received by 10/26/2015. Review of applications will begin immediately at that time and continue until the position is filled. Required materials include 1) a letter of application, 2) a current and complete curriculum vitae, 3) undergraduate and graduate transcripts, 4) a statement of teaching philosophy, 5) a statement of research goals, and 6) three letters of reference. Visit www.iup.edu/employment to apply through our online application system. Please do not e-mail, fax, or mail any documentation.

Biology Department website: <http://www.iup.edu/biology> . Human Resources website: <http://www.iup.edu/employment> . Pennsylvania State System of Higher Education Collective Bargaining Agreement with faculty

Union (APSCUF) <http://www.apscuf.com/members/contract/2011-2015-faculty-cba> IUP is an equal opportunity employer (M/F/H/V). IUP is a member of the Pennsylvania State System of Higher Education. <http://www.passhe.edu/Pages/default.aspx> Thanks,

Melanie Muscatello Indiana University of Pennsylvania
"Ms. Melanie Jean Muscatello" <melanie@iup.edu>

LeibnizInst Berlin TechAssist EvolGenetics

The Leibniz-Institute of Freshwater Ecology and Inland Fisheries (IGB) is the largest freshwater ecology research institute in Germany. IGB offers excellent laboratory and field facilities for interdisciplinary research, large-scale experimental facilities, and long-term research programs and data sets.

IGB (labs: Wolinska, Monaghan) invites applications

for a Technical Assistant for Molecular Biology and Genomics.

The position is available from 01.01.2016 for two years, with a possibility for extension to a permanent contract.

Duties and responsibilities

* successful candidate will participate in research projects focused on molecular ecology and evolutionary genetics. Duties include molecular, genetic and genomic applications on non-model organisms, including DNA and RNA extraction, PCR, qPCR, microsatellite genotyping, genomics (including library preparation for next-generation sequencing).

* The candidate will be responsible for overseeing a laboratory and equipment (including Sanger Sequencer) shared by students and post-doctoral researchers.

* The primary working place will be at IGB in Berlin-Friedrichshagen, but the successful candidate will work regularly in the laboratories of the Berlin Center for Genomics in Biodiversity Research in Berlin-Dahlem, thus, some flexibility is required. Requirements

* or medical technical assistant (BTA/MTLA), or university degree in molecular biology, genetics, genomics or a related field.

* Experience or familiarity with an academic research environment, i.e. non-routine and often not well established techniques.

* Excellent organizational skills and a strong work ethic. Very importantly, we are seeking an enthusiastic and highly motivated person.

* A demonstrated ability to work in a multi-cultural research environment.

* Proficiency in German and English. Salary is paid according to the TVöD (100% position). In keeping with the IGB's policy regarding gender equality, female applicants are particularly encouraged. Severely disabled applicants with equal qualification and aptitude are given preferential consideration.

Please send your applications (in English) to the secretary office (Ms Katrin Lehmann) by 15.11.2015 via e-mail (lehmann@igb-berlin.de). Applicants should submit a single pdf file containing a CV, a cover letter detailing your experience (including specific methods, skills), and the name and contact details of two referees. Please quote "job application_molecular TA_IGB" in the subject line. For informal inquiries please contact Justyna Wolinska (wolinska@igb-berlin.de).

Michael Monaghan: <http://monaghanlab.org/> Justyna Wolinska: <http://www.igb-berlin.de/staff-a2/show/-573.html> Leibniz-Institute of Freshwater Ecology and

Inland Fisheries in the Forschungsverbund Berlin e.V.
Department of Ecosystem Research Müggelseedamm
301, 12587 Berlin, Germany

Justyna Wolinska

Leibniz-Institute of Freshwater Ecology and Inland
Fisheries (IGB) Department II (Ecosystem Research)
Mueggelseedamm 301 12587 Berlin, Germany

Group Leader at the IGB & Professor for Aquatic Evo-
lutionary Ecology at the Free University of Berlin

Phone: +49 (0)30 64181 686 Fax: +49 (0)30 64181 682
email: wolinska@igb-berlin.de

<http://www.igb-berlin.de/staff-a2/show/573.html>

Justyna Wolinska <wolinska@igb-berlin.de>

LouisianaStateU HerbariaDirector

Job: LouisianaStateU.HerbariaDirector

ASSISTANT PROFESSOR (TENURE-TRACK) AND
HERBARIA DIRECTOR (Vascular Plant Systematics)
Biological Sciences College of Science Louisiana State
University

Louisiana State University Department of Biological
Sciences invites applications for a tenure-track Assistant
Professor and Herbaria Director position (see <http://www.herbarium.lsu.edu>). Exceptional candidates at the
Associate Professor level will also be considered. Respon-
sibilities: Develop and maintain a vigorous, extramurally
funded, specimen-based research program in vascular
plant systematics; teach undergraduate and graduate
classes; curate and further develop LSU's Herbaria col-
lections with support of a recently enhanced endowment
and a collections manager; and participate in extracur-
ricular activities at LSU. Required Qualifications: Ph.D.
degree in plant biology or related area; a successful
record of independent research in vascular plant system-
atics; and experience in collecting, managing, and using
herbarium specimens in research. Preferred Qualifica-
tions: Postdoctoral experience preferred.

An offer of employment is contingent on a satisfactory
pre-employment background check. Application dead-
line is November 30, 2015, or until a candidate is selected.
Anticipated start date is August 2016. We encourage
applications from women and minorities. Apply online
for position #029339 at www.lsusystemcareers.lsu.edu,
where application materials are uploaded, including
a statement of how you would help LSU attain the

goals stated in Flagship 2020: <http://www.lsu.edu/-flagshipagenda> LSU IS COMMITTED TO DIVER-
SITY AND IS AN EQUAL OPPORTUNITY/EQUAL
ACCESS EMPLOYER

Quick link at ad URL: [https://-
lsusystemcareers.lsu.edu/applicants/-
Central?quickFind=59946](https://lsusystemcareers.lsu.edu/applicants/-Central?quickFind=59946) Brant Faircloth
<brant@faircloth-lab.org>

LouisianaStateU PlantSystematics

ASSISTANT PROFESSOR (TENURE-TRACK) AND
HERBARIA DIRECTOR (Vascular Plant Systematics)
Biological Sciences College of Science Louisiana State
University

Louisiana State University Department of Biological
Sciences invites applications for a tenure-track Assistant
Professor and Herbaria Director position (see <http://www.herbarium.lsu.edu>) Exceptional candidates at the
Associate Professor level will also be considered. Respon-
sibilities: Develop and maintain a vigorous, extramurally
funded, specimen-based research program in vascular
plant systematics; teach undergraduate and graduate
classes; curate and further develop LSU's Herbaria col-
lections with support of a recently enhanced endowment
and a collections manager; and participate in extracur-
ricular activities at LSU. Required Qualifications: Ph.D.
degree in plant biology or related area; a successful
record of independent research in vascular plant system-
atics; and experience in collecting, managing, and using
herbarium specimens in research. Preferred Qualifica-
tions: Postdoctoral experience preferred.

An offer of employment is contingent on a satisfactory
pre-employment background check. Application dead-
line is November 30, 2015, or until a candidate is selected.
Anticipated start date is August 2016. We encourage
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where application materials are uploaded, including
a statement of how you would help LSU attain the
goals stated in Flagship 2020: <http://www.lsu.edu/-flagshipagenda> LSU IS COMMITTED TO DIVER-
SITY AND IS AN EQUAL OPPORTUNITY/EQUAL
ACCESS EMPLOYER

Quick link at ad URL: [https://-
lsusystemcareers.lsu.edu/applicants/-
Central?quickFind=3D59946](https://lsusystemcareers.lsu.edu/applicants/-Central?quickFind=3D59946) Thanks-

Christie L. Dillon, MS Manager Human Resource Management Louisiana State University 110 Thomas Boyd Hall, Baton Rouge, LA 70803 office 225-578-8334 | fax 225-578-6571 clefiles@lsu.edu | lsu.edu | www.lsu.edu/hrm

Christine L Dillon <clefiles@lsu.edu>

MiamiU EvolutionaryBotany

The Department of Biology at Miami University, Oxford, OH, invites applications for a tenure-track position as an Assistant Professor in Ethnobotany to start August 2016 to teach at the undergraduate and graduate levels, maintain an active research agenda and provide service to the institution. Teaching may include introductory biology for majors or non-majors, economic or medical botany, biotechnology, or advanced plant biology courses in areas of expertise. Required: Ph.D. in biology, botany, or a related field. Strong candidates will have postdoctoral experience and a demonstrated commitment to developing an externally funded research program and teaching at the undergraduate and graduate levels; research expertise in medicinal, pharmacological, or nutritional properties of plants using molecular, physiological, phylogenetic, or ecological approaches. We are especially interested in candidates with research and teaching experience that complement our existing departmental strengths (<http://www.miamioh.edu/biology>).

Biology has over 40 faculty with excellence in undergraduate and graduate teaching and research, and offers multiple bachelors, masters, and PhD degrees in biology, botany, and in the interdisciplinary programs of cell, molecular, and structural biology (<http://miamioh.edu/cmsb>) and ecology, evolution and environmental biology (<http://miamioh.edu/eeeb>). Research and teaching are supported by outstanding core facilities, including the Willard Sherman Turrell Herbarium, the Center for Bioinformatics and Functional Genomics, the Center for Advanced Microscopy and Imaging, the Ecology Research Center, and a Laboratory Animal Resources Center. Additional resources housed in the Department of Chemistry & Biochemistry include the Ohio Advanced EPR laboratory, an NMR/MS facility that includes several high field instruments, and a Center of Excellence for Structural Biology and Metabonomics. Miami is a top-ranked public university for its strong commitment to undergraduate education. To apply, submit a letter of application, statement of research plans, teaching phi-

losophy, curriculum vitae, and contact information for three references to <https://miamioh.hiretouch.com/job-details?jobID=3D1934>. Review of applications starts December 1, 2015 and continues until position is filled. Questions may be directed to the Chair of the Search Committee, Dr. Richard C. Moore, Associate Professor, Department of Biology, biology@miamioh.edu. Miami University, an EO/AA employer encourages applications from minorities, women, protected veterans and individuals with disabilities. Miami does not permit, and takes action to prevent, harassment, discrimination and retaliation. Requests for reasonable accommodations for disabilities should be directed to Ms. Mary Jane Leveline at (513) 529-2027. Annual Security and Fire Safety Report may be found at: <http://www.MiamiOH.edu/campus-safety/annual-report/index.html>. Criminal background check required. All campuses are smoke- and tobacco-free.

Richard C. Moore

Associate Professor Miami University Biology Dept. Botany Program Oxford, OH 45056

Phone: (513)529-4278 Email: moorerc@muohio.edu

"moorerc@miamioh.edu" <moorerc@miamioh.edu>

MichiganStateU 6 QuantComputPlantBiol

Cluster Hire in Quantitative and Computational Plant Sciences

The plant science departments at Michigan State University are inviting applications for six tenure-track positions at the Assistant/Associate/Full Professor level for individuals using quantitative/computational approaches involving large-scale omic datasets in model, algal, horticultural/agronomic crops, or ecological systems at the basic and/or applied level. These positions are part of MSU's Global Impact Initiative that will recruit 100 top-level researchers to MSU over the next five years (see <http://research.msu.edu/global-impact>). MSU is world renowned for plant science research and we are seeking candidates that employ large-scale or systems approaches to address compelling research questions in plant science that will strengthen and complement on-going research on campus. Areas of interest include, but are not limited to Epigenetics/Epigenomics, Phyto-biome/Metagenomics, Quantitative Genomics/Genetics, Phylogenomics, Population Genomics, Synthetic Biol-

ogy, and Systems Biology. Experience in computational, bioinformatic, or statistical analysis of large-scale omic datasets is required. Candidates with experience and interest in computational method development to process, analyze, and interpret large-scale plant omic datasets including phenomics data are especially encouraged to apply. Successful applicants will contribute to undergraduate and/or graduate teaching and maintain an externally-funded research program. Applicants should have a strong record of accomplishments and publications.

Depending on candidate interest and research expertise, appointments for these positions may be singly or jointly in two or more departments/programs on campus including the departments of Biochemistry & Molecular Biology, Horticulture, Forestry, Plant Biology, Plant, Soil, & Microbial Sciences, Computational, Mathematics, Science & Engineering, the DOE Plant Research Laboratory and MSU AgBioResearch. Information about the initiative and these positions can be found at <http://clusterhire2015.plantbiology.msu.edu>. To apply, applicants should provide curriculum vitae, summary of research accomplishments and future research objectives, brief description of teaching philosophy and goals, and a list of three references in a single PDF document to plantgenomics@plantbiology.msu.edu. Candidates also must submit an application for this position through the MSU Human Resources site at <http://jobs.msu.edu/> (posting #2109).

The review of applications will begin November 13, 2015 and continue until suitable candidates are identified. Questions regarding this position may be emailed to Search Chair at plantgenomics@plantbiology.msu.edu.

C Robin Buell, Ph. D. Michigan State University Foundation Endowed Professor William J Beale Distinguished Faculty Department of Plant Biology Michigan State University Plant Biology Laboratories 612 Wilson Road, Rm 166 East Lansing MI 48824 Phone: (517) 353 5597 Fax: (517) 353 1926 Email: buell@msu.edu <http://buell-lab.plantbiology.msu.edu> C Robin Buell <buell@msu.edu>

MichiganStateU ResAssoc SwitchgrassEvolution

Research Associate and Project Coordinator: Biogeochemistry and genomics of plant-microbe interactions

We are looking for a research associate and project coordinator for a multi-PI project at Michigan State University recently funded by the Department of Energy. The project is focused on plant-microbe-nutrient interactions in biofuel cropping systems on degraded lands and will include: microbial genomics, transcriptomics and stable isotope probing; root exudate metabolomics and plant transcriptomics; and soil biogeochemical and plant functional trait measurements. The successful candidate will spend at least 50% of their time coordinating grant activities, which will include overseeing laboratory and field operations, coordinating travel to field sites and conferences; managing undergraduate student lab assistants; and assisting with data collection, entry and maintenance. For qualified and interested candidates, there will also be opportunities for contributions to experimental design, data analysis and manuscript preparation and publication, as well as work and training in bioinformatics. This position will require wide-ranging travel in Michigan and Wisconsin and travel between Michigan State University main campus and the W.K. Kellogg Biological Station, which is located approximately 1.25 hours south of main campus. Applicants may choose to live near main campus or the biological station, with their primary employment location at either site.

For more information, please see the following press release: <http://msutoday.msu.edu/news/2015/grant-to-help-increase-biofuel-yield-while-limiting-fertilizer-use/>

And explore the project leaders' websites: Sarah Evans (<http://saraheevanslab.weebly.com>); Lisa Tiemann (<http://tiemann.psm.msu.edu/>); Maren Friesen (<http://friesen.plantbiology.msu.edu/>); Jim Cole (<http://rdp.cme.msu.edu/>)

The successful candidate must have a Master's or Ph.D. or commensurate experience in soil ecology, microbiology, biogeochemistry, plant ecology, plant biology or a closely related field with preference given to those with some experience in field biology, molecular or isotopic methods, and/or statistics and bioinformatics. Strong candidates will also possess the following attributes: a publication record from their Master's or Ph.D. (papers

published, in press, or submitted); creativity, independence, and the desire to learn new things; excellent communication skills, both written and oral; experience with project coordination and/or demonstration of excellent organizational skills.

This is a 2-year position renewable for up to 5 years contingent upon funding and/or performance. A start date of January 4, 2016 is preferred, but alternative start dates through May 2016 will be considered and should be noted in the cover letter. All questions about the position and application materials should be submitted to: Dr. Lisa Tiemann (ltiemann@msu.edu). Applications should be submitted by October 30th for full consideration but will be accepted until the position is filled.

Applications, sent to Dr. Tiemann as a single pdf file, should include: 1) a brief cover letter (no more than 2-pages) that highlights past research accomplishments, describes future career and research goals and gives examples of project coordination and/or organizational skills; 2) a curriculum vitae; 3) names and contact information for three references.

MSU is an affirmative action/equal opportunity employer.

– Maren L. Friesen Assistant Professor, Dept. Plant Biology Michigan State University 612 Wilson Rd, East Lansing, MI USA 48824-6481 phone: +1 (323) 454-3023 || office: +1 (517) 844-6947 || fax: +1 (517) 353-1926 <http://friesen.plantbiology.msu.edu/> maren.l.friesen@gmail.com

NatlTaiwanU PlantDiversity txt

Assistant Professor (or higher rank) in Plant Diversity (Functional Plant Morphology), Plant Physiological Ecology, Systematics of Green Algae and Plants, or Plant Evolutionary Biology

Organization: National Taiwan University (NTU) Application Deadline: December 15, 2015 Job Starting Date: August 1, 2016 Country: Taiwan Type of Position: Academic Education Requirement: PhD (or equivalent)

Description

The Department of Life Science, National Taiwan University seeks an outstanding scientist to fill one position at the rank of Assistant Professor (or higher). The successful candidate is expected (1) to teach General Bi-

ology, Plant Diversity and Evolution (Functional Plant Morphology), or Plant Physiological Ecology and (2) to develop an internationally recognized research program. The majority of the current faculty received doctoral and/or postdoctoral training in leading universities worldwide (mostly US and UK). Students admitted each year are among the top 5% of all high school graduates in Taiwan. We welcome applicants who are committed to undergraduate education, as well as a strong emphasis on academic research.

Qualifications

The applicant must have a PhD (or equivalent degree) and post-doctoral experience is required. Evidence of exemplary scholarly achievement (funding, publications, presentations, etc.) commensurate with position and years of experience is expected. The candidate should have effective communication skills (oral and written) and the ability to collaborate with other scientists.

How to Apply / Contact

Applicants should submit a cover letter indicating their suitability for the advertised position. Additional application materials include a current curriculum vitae, research and teaching plans, copies of official transcripts of doctoral program, list of publications since August 1, 2009, and PDF files of all publications. All documents must be sent electronically to: fume@ntu.edu.tw. At least three recommendation letters should be sent directly by the referees to the above e-mail address.

Chun-Neng (Bruce) Wang

leafy@ntu.edu.tw

NorthCarolinaStateU PopGenomics

Cluster Hire in Emerging Plant Disease and Global Food Security NC State University

As part of the Chancellor's Faculty Excellence Program, NC State University seeks four outstanding faculty at any rank to form a new interdisciplinary faculty cluster on merging Plant Disease and Global Food Security. Understanding the dynamics of and managing emerging plant diseases requires a collaborative approach with expertise in epidemiology, population biology, microbial evolution, geospatial modeling and bioinformatics. The new cluster faculty will develop basic knowledge in these areas and work collaboratively with several existing clusters to advance NC State University as a

leader in addressing the challenges of emerging plant diseases and global food security.

The faculty cluster will develop new knowledge to understand the fundamental basis of emerging diseases caused by pathogens of plants “including the development of tools” enabling a more rapid response to contain and limit potential damage by emerging threats. The cluster will study plant pathogens and their arthropod vectors that transmit them in nature, in agriculture, and post-harvest making linkages from genomes to ecosystem processes. The cluster seeks faculty members in four colleges with expertise in the following areas:

Integration of ecology, epidemiology, population genomics or host-microbe interactions from the molecular to population levels to investigate the biology of emerging plant disease agents, including potential vectors, that threaten local and global food security,

Engineering next generation devices for real-time detection of plant pathogens or pests that vector them (e.g., isothermal nucleic acid amplification assays; ligand and binding-based methods; novel biosensors, nanodevices; volatile detection apparatus, or three-dimensional goggles) and deploy sensors using robotic devices or unmanned aerial vehicles.

Data scientist focused on conducting cross-cutting research in population genomics, epidemiology and the evolution of emerging crop pests and pathogens using molecular, bioinformatics, and evolutionary tools to track sources of disease outbreaks at multiple levels of scale

Geospatial analytics for spatially-explicit prediction of transmission pathways and deploying rapid response strategies to detect and limit potential damage by emerging threats including approaches that leverage frontiers in citizen science, crowdsourcing with mobile technologies, and engaging stakeholders

Minimum requirements include a PhD in a relevant field (such as plant pathology, entomology, biology, evolutionary biology, bioinformatics, statistics, math, geography, chemical and biomolecular engineering, computer science) from an accredited institution. The candidates should have a strong capacity to teach at both the undergraduate and graduate levels and become part of the integrated core team that develops a Global Food Security Graduate Certificate Program. The capacity to mentor doctoral students and postdoctoral fellows is expected. Priority will be given to candidates that have demonstrated interdisciplinary collaborations that cut across academic units. Inclusiveness and diversity are academic imperatives and thus university goals. The University is particularly interested in candidates with

experience in working with students from diverse backgrounds and who have a demonstrated commitment to improving access to higher education for students from underrepresented groups.

For consideration, a curriculum vitae, cover letter, a statement of research experience and goals as it relates to the cluster and contact information for references are requested. Materials for consideration will be accepted electronically via <http://jobs.ncsu.edu/postings/-58983/>. A comprehensive review of applications will begin by Dec. 15, 2015 and continue until the positions are filled. The target start date for is August 2016; however, a mutually beneficial time may be negotiated. Questions about the position may be directed with a subject line “GFSCluster inquiry to Jean Ristaino (jean_ristaino@ncsu.edu) or globalfoodsecurity-cluster@ncsu.edu

The Chancellor’s Faculty Excellence Program is bringing some of the best and brightest minds to join NC State University’s interdisciplinary efforts to solve some of the globe’s most significant problems. Guided by a strong strategic plan and an aggressive vision, the cluster hiring program is adding new faculty members in select fields to add more breadth and depth to NC State’s already-strong efforts. The Chancellor’s Faculty Excellence Program marks a major initiative of the university’s strategic plan, “The Pathway to the Future.” We invite you to explore more information about the Emerging Plant Disease and Global Food Security cluster at Chancellor’s Faculty Excellence Program and

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OkinawaInstSciTech EvolutionaryBiol

OIST is seeking at least seven(!) new faculty members, in a wide variety of fields including evolutionary biology. You can find more information on these jobs here: <https://groups.oist.jp/facultypositions> Sasha (Alexander) Mikheyev Assistant Professor Ecology and Evolution Unit[1] Okinawa Institute of Science and Technology Graduate University

Sasha Mikheyev <alexander.mikheyev@oist.jp>

PrincetonU EcosystemBioEco

ASSISTANT PROFESSOR: ECOSYSTEM BIOLOGY, COMMUNITY ECOLOGY, OR GLOBAL CHANGE BIOLOGY

Faculty Position

Princeton University's Department of Ecology and Evolutionary Biology is seeking candidates for a tenure-track faculty position in the areas of ecosystem biology, community ecology, and/or global change biology. We are interested in scientists who address fundamental questions with the goal of offering novel conceptual advances, and whose work is relevant to contemporary environmental problems. The successful applicant will have the opportunity to interact with a diverse and interdisciplinary group of like-minded faculty members in several departments and in the Princeton Environmental Institute.

Applicants should write a vision statement, no longer than two pages, that outlines one or more major unsolved problems in their field and how they plan to address them. In this respect, the vision statement should go beyond a summary of the applicant's prior and current research.

Applications, including the vision statement, curriculum vitae, three reprints, and contact information for three references can be submitted online via <http://jobs.princeton.edu>, Req #1500822. Screening of applications will begin November 15, 2015.

Princeton University is an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability status, protected veteran status, or any other characteristic protected by law. This position is subject to the University's background check policy.

Direct link to posting: <https://jobs.princeton.edu/applicants/jsp/shared/position/-JobDetails.css.jsp?postingId=215151> (If the site does not show, click twice or search Req#.)

Diane Carlino <dcarlino@Princeton.EDU>

PrincetonU EvolutionaryGenomics

ASSISTANT PROFESSOR, EVOLUTIONARY GENOMICS Faculty Position – Princeton University's Department of Ecology and Evolutionary Biology, in partnership with the Lewis Sigler Institute for Integrative Genomics, is seeking candidates for a tenure track faculty position at the Assistant Professor level in the area of genomics and evolution. We are interested in scientists working at the intersection of functional genomics and evolutionary biology, who use approaches that include the analysis of large data sets. The successful candidate will address fundamental questions in evolutionary and population biology with the aim of offering novel conceptual advances and strengthen intellectual bridges between evolutionary and systems biology. They will also have the opportunity to interact with a diverse and interdisciplinary group of like-minded faculty including members from Ecology and Evolutionary Biology, Computer Science, Molecular Biology, the Lewis Sigler Institute for Integrative Genomics, the Princeton Neuroscience Institute and the newly formed Center for Statistics and Machine Learning. More broadly, we seek colleagues who will enthusiastically contribute to a climate of interdisciplinary collaboration, excellence and diversity. Applicants should write a vision statement, no longer than two pages, that outlines one or more major unsolved problems in their field and how they plan to address them. In this respect, the vision statement should go beyond a summary of the applicant's prior and current research.

Applications, including the vision statement, curriculum vitae, three reprints, and contact information for three references can be submitted online via <http://jobs.princeton.edu>, Req #1500823. Screening of applications will begin November 15, 2015.

Princeton University is an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability status, protected veteran status, or any other characteristic protected by law. This position is subject to the University's background check policy.

Direct link to posting: <https://jobs.princeton.edu/applicants/jsp/shared/position/->

[JobDetails_css.jsp?postingId=215152](#) (If the site does not show, click twice or search Req#.)

Diane Carlino <dcarlino@Princeton.EDU>

RoslinInst UEdinburgh QuantitativeGenetics

Postdoctoral Researcher in Quantitative Genetics

Salary Range: £31,342 - £37,394 per annum

The Roslin Institute is a world-class centre for the quantitative genetics of populations, particularly in managed populations such as livestock and companion animals. We have a vacancy for a post-doctoral researcher in quantitative genetics to work alongside Dr. Pam Wiener (Roslin), Dr. John Hickey (Roslin) and Dr. Marie Haskell (Scotland's Rural College) on the genomic dissection of behavioural characteristics in dogs. The post will involve the development of a low-density platform for genotyping two major dog breeds, characterisation of behavioural traits based on questionnaire data and genomic association and genomic prediction analyses of the behavioural data.

The successful applicant will have (or be close to having) a PhD in Quantitative Genetics, Population Genetics, Statistics, Biology, or a related area. The candidate will be expected to have experience of working with large-scale SNP marker data, for example, genome-wide association mapping and genomic prediction, and experience with multivariate statistical analysis. Demonstrable skills in project management, ability to communicate effectively with the public and the oral and written communication of scientific results are also essential.

The post-holder will join the Genetics and Genomics department at the Institute, which comprises 24 research groups. He/she will also join a large and active group of scientists across Edinburgh researching the genetics of complex traits. The successful candidate will have the chance to collaborate with leading researchers in the field and to present results at meetings and conferences.

The post is funded for 18 months with the possibility of extension.

For further information, please contact pam.wiener@roslin.ed.ac.uk

Closing Date: 02 November 2015

Applications can be made via this weblink: <http://->

www.roslin.ed.ac.uk/vacancies/034494/postdoctoral-research-fellow/ Pam Wiener The Roslin Institute and Royal (Dick) School of Veterinary Studies University of Edinburgh Easter Bush, Midlothian EH25 9RG, UK

phone: 44 (0) 131 651 9100 email: pam.wiener@roslin.ed.ac.uk "The University of Edinburgh is a charitable body, registered in Scotland, with registration number SC005336

Disclaimer: This e-mail and any attachments are confidential and intended solely for the use of the recipient(s) to whom they are addressed. If you have received it in error, please destroy all copies and inform the sender."

"pam.wiener@roslin.ed.ac.uk"

<pam.wiener@roslin.ed.ac.uk>

RowanU EvolutionaryGenomics

While not explicitly an evolution position, this should be of interest to those in evolutionary genomics.

The Department of Biological Sciences at Rowan University (Glassboro campus) invites applications for a tenure-track Assistant or Associate Professor position in Genomics starting September 1, 2016. A Ph.D. and post-doctoral experience focused on genomics (e.g., sequence-based, functional, structural, epi- or meta- genomics) is required. The successful candidate will be expected to establish an externally-funded research program that contributes to the biomedical and bioinformatic initiatives of the Department and the College of Science & Mathematics. The successful candidate will have opportunities for collaboration with other STEM departments on the Glassboro campus and at the two Rowan medical schools (Cooper Medical School of Rowan University and Rowan School of Osteopathic Medicine). The successful candidate will teach undergraduate and graduate courses in Biological Sciences and in the new Bioinformatics Program, and pursue a research program involving graduate/undergraduate students. The candidate will also be expected to participate in the further development of the interdisciplinary Bioinformatics Program, which includes both undergraduate and graduate programs.

The College of Science & Mathematics currently offers related BS degrees in Biological Sciences, Biochemistry, Biophysics, and Bioinformatics, in addition to MS degrees in Pharmaceutical Science and Bioinformatics.

Rowan University is a comprehensive state-designated research institution with approximately 15,000 students.

Its main campus is located in Glassboro, N.J., 20-miles southeast of Philadelphia, and it has a branch campus and medical school in Camden and a second medical school in nearby Stratford. Rowan is the second university in the country to offer M.D. and D.O. medical-degree granting programs. The School of Osteopathic Medicine has a faculty practice plan that serves approximately 200,000 patients in Southern New Jersey. The institution is also home to the South Jersey Technology Park, which fosters the translation of applied research into commercial products and processes. Its business incubator also supports that mission. The University boasts seven colleges-William G. Rohrer College of Business, Henry M. Rowan College of Engineering and colleges of Communication and Creative Arts, Education, Humanities and Social Sciences, Performing Arts, and Science and Mathematics, as well as the School of Biomedical Science and Health Professions.

Candidates must be legally authorized to work in the United States.

The application must be submitted through our online application system as a single file (PDF format) containing a curriculum vitae, a detailed description of research interests and plans, a statement of teaching philosophy, and graduate transcripts (copies acceptable). Three letters of recommendation should be sent via email directly to biosearch1516@rowan.edu.

The application deadline is November 5, 2015.

Rowan University values diversity and is committed to equal opportunity in employment

All positions are contingent upon budget appropriations.

“Holbrook, Luke T.” <holbrook@rowan.edu>

SaintLouisU Bioinformatics

Tenure Track Assistant Professor

Position in Bioinformatics

Saint Louis University, a Catholic, Jesuit institution dedicated to student learning, research, health care, and service is seeking applicants for a tenure-track Assistant Professor position in the Department of Biology. The area of emphasis is bioinformatics, computational biology, or related field. The position will support a new interdisciplinary Master’s program in Bioinformatics and Computational Biology. Applicants should have a Ph.D., post-doctoral experience, a record of research

productivity, and a commitment to undergraduate and graduate student mentoring. The position includes a competitive salary and start-up package. A secondary appointment in Mathematics and Computer Science or an affiliated department will be considered for candidates with appropriate qualifications. All applications must be made online at <http://jobs.slu.edu> (req #F20150192) and should include a cover letter, curriculum vitae, a research statement, and a statement of teaching experience and philosophy. In addition, please have three letters of reference sent by mail to Dr. Robert Wood, Department of Biology, Saint Louis University, 3507 Laclede Avenue, St. Louis, MO, 63103-2010 or by email to watkinst@slu.edu. Applications received by December 15, 2015 are assured full consideration and the search will continue until suitable candidates are identified. Additional information on the BCB program or Department of Biology can be found at <http://bioinformatics.slu.edu> and <http://bio.slu.edu>.

Saint Louis University is an Affirmative Action/Equal Opportunity Employer (AA/EOE), and encourages nominations of and applications from women and minorities.

Thank you! Zhenguo

Zhenguo Lin <zhenguolin@slu.edu>

SanFranciscoStateU EvolutionaryPhysiology

The Department of Biology at San Francisco State University invites applications for a tenure-track position in Animal Physiology at the rank of Assistant or Associate Professor, to begin in August 2016.

We encourage applications from individuals working in all areas of physiology, and we are especially interested in complementing our research strengths in comparative (evolutionary and/or environmental) physiology, using vertebrate or invertebrate systems.

Review of applications begins 15 November 2015 and continues until the position is filled. For additional information, please visit our web site at <http://biology.sfsu.edu> under “Announcements.”

Andrew G. Zink Associate Professor of Biology San Francisco State University <http://online.sfsu.edu/zink/>
Andy Zink <zink@sfsu.edu>

Spelman College Atlanta ResTech Microbe Evolution

Applications are invited for a full-time research technician in the Tekle lab in the Biology Department at Spelman College Atlanta, GA. General research areas in the laboratory include eukaryotic microbial evolution and behavior with emphasis in amoeboid microorganisms. The technician is expected to carry out isolation, culturing and maintaining of microorganisms, molecular and behavior studies. Duties will include: DNA/RNA extraction and purification, PCR and RT-PCR, RNA sequencing as well as light and fluorescence microscopy; supervising undergraduate researchers; general lab maintenance.

The candidate should have a Bachelors degree in biology, molecular biology, biochemistry, bioinformatics or a related discipline and 1-3 years of relevant research experience or equivalent combination of experience, training and/or education is required. The ideal candidate will have experience with basic molecular techniques (DNA extraction, PCR), limited field experience, good organizational skills and attention to detail, and an ability to work well with and supervise undergraduate students. Previous experience working with microorganisms and basic programming skills are desirable.

This is a full-time, one-year position with the possibility of two additional years subject to performance review. Salary is commensurate with experience and includes benefits.

Please email a letter of interest, CV, and names of and contact information for 2 references to ytekle@spelman.edu. Review of applications will begin November 1, 2015. Anticipated start date is December (earlier) 2015 and can be flexible. For more information on the lab: <http://faculty.spelman.edu/yonastekle/>. Please feel free to email me with questions at the above email address.

Yonas Tekle Assistant Professor

Department of Biology Spelman College

350 Spelman Lane SW Atlanta, GA 30314-4399 Office:
404-270-5779

Yonas Isaak Tekle <yonastekle@gmail.com>

SGN Frankfurt Theoretical Population Genomics

Job offer Ref. # 8.10

The Senckenberg Gesellschaft für Naturforschung (SGN), a member institution of the Leibniz Association, with almost 800 employees and its headquarters in Frankfurt am Main, is conducting advanced natural history research with leading research institutions in six federal states. The Senckenberg Biodiversity and Climate Research Centre (BiK-F) is exploring in this context the interactions between organismic biodiversity and climate.

For the new DFG project “Rapid seasonal thermal adaptation in Chironomus riparius”, as part of the “Rapid Adaptation” Priority Program, senior scientist Dr. Bob O’Hara invites applications for a

PhD Position in theoretical population genomics

Your tasks:

- To extend current models of cyclic selection to look at its effects on multiple loci, and predict the effects of future climate change on cyclic selection
- To develop statistical models for effects of cyclic selection on the genome
- To help analyse data coming out of field sampling and experiments on cyclic adaptation

Your profile:

- Master in evolutionary biology, bioinformatics, statistics or similar fields
- Good quantitative and modelling skills
- Familiarity with population genetic concepts
- Dedication to scientific research
- Good written and oral communication skills
- Interest to work in interdisciplinary teams

Salary and benefits are in accordance with a public service position in Germany (E13, 65%). The contract shall start no later than January, 1st 2016 and will be limited to a 3-year term. The Senckenberg Research Institute supports equal opportunity of men and women and therefore strongly invites women to apply. Equally qualified handicapped applicants will be given preference. The duty station will be Frankfurt am Main, Germany. The employer is the Senckenberg Gesellschaft für Naturforschung (SGN).

Please send your application until November, 3d 2015 preferably by e-mail (attachment in a single pdf docu-

ment), mentioning the reference of this position (Ref. # 8.10) and including a letter outlining your suitability and motivation, detailed CV, all transcripts and grades, contact details of two potential references, a summary of your Master's or Diploma thesis and, if available, publications to the address below:

Herrn Dr. Tobias Schneck c/o Senckenberg Gesellschaft für Naturforschung Senckenberganlage 25 60325 Frankfurt E-Mail: recruiting@senckenberg.de

For scientific enquiries please get in contact with Dr. Bob O'Hara. E-Mail: bohara@senckenberg.de.

– Mit freundlichen Grüßen /Best Regards

Isabel Gajcevic i.A. des Teams Personal

SENCKENBERG Gesellschaft für Naturforschung
Abtl. Service & Administration - Personal und
Soziales/Personnel and Social Affairs Senckenberganlage
25 60325 Frankfurt/Main

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

Leiterin Personal & Soziales - 1458 Loke, Uta

Leiterin Team Personal - 1319 Elsen, Carina

Team Personalbeschaffung (Recruiting) - 1313 di Biase,
Maria - 1313 Bast, Isabell - 1478 Gajcevic, Isabel

Fax: 0049 (0)69 / 7542-1467 Mail: recruiting@senckenberg.de Homepage: www.senckenberg.de

SENCKENBERG Gesellschaft für Naturforschung
(Rechtsfähiger Verein gemäß §22 BGB) Senckenberg-
anlage 25 60325 Frankfurt am Main Direktorium: Prof.
Dr. Dr. h.c. Volker Mosbrugger, Prof. Dr. Andreas
Mulch, Hon. Prof. Dr. h.c. (STU) Rolf Pfrenge, Prof.
Dr. Katrin Böhning-Gaese, Prof. Dr. Uwe Fritz, PD Dr.
Ingrid Kröncke Präsidentin: Dr. h. c. Beate Heraeus
Aufsichtsbehörde: Magistrat der Stadt Frankfurt am
Main (Ordnungsamt) P Before printing, think about
the environment

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

Smithsonian contract VideoDataAnalyst

Job opportunity at the Smithsonian NMNH (contract).

Please forward it to anyone with graduate level experience identifying live deep-sea corals and other invertebrate fauna from in situ video footage.

“Hiring now: Deep-Sea Coral and Associated Fauna

Video Data Analyst (Smithsonian National Museum of Natural History). Excellent employment opportunity analyzing collected imagery and video to assess diversity and abundance of deep-sea corals and associated fauna in the western North Atlantic. See add for details. Submit application using Integrated Statistic webpage in the link below: <http://-jobs.intstats.com/JobDetails.jsp?jobListingIdX> Cheryl Lynn Ames <clames1@umd.edu>

SouthDakotaStateU PlantConservation

Assistant Professor, Plant Conservation Biologist/Herbarium Curator (60% teaching, 40% research / full time, 9 month position) Department of Natural Resource Management South Dakota State University

The Department of Natural Resource Management (NRM) at South Dakota State University invites applications for a full-time, tenure-track, 9-month position at the rank of Assistant Professor with expertise in Plant Conservation Biology and Plant Systematics, beginning fall 2016. We seek a talented collaborative colleague who will contribute to teaching excellence in the department and is capable of building an externally funded competitive research program that will incorporate prairie and grassland habitat management with the overall goal of contributing to the preservation of plant biodiversity of the Great Plains. The successful candidate will also receive support to curate the C.A. Taylor Herbarium.

The NRM Department is composed of three major research foci: ecology and environmental sciences, rangeland ecology and management and wildlife and fisheries sciences. The department has 26 faculty (22 tenured/tenure-track and 4 non-tenure-track) and 2 Extension Field Specialists. It is also the home of the South Dakota Cooperative Fish and Wildlife Research Unit (3 research scientists). In addition, 4 faculty members in the Geospatial Sciences Center of Excellence chose the department as their promotion and tenure home. The department has diverse teaching, research and extension appointments. Natural Resource Management faculty have secured on average \$4 million in grants in FY 14 and FY 15. The C.A. Taylor Herbarium was established in 1891 and currently has approximately 60,000 records, including specimens from the Black Hills National Forest, the Fort Pierre and Grand River National Grasslands, and the Prairie Pothole Region. Over 4,000

specimens have been included in an ongoing, supported effort to digitize the collection.

RESPONSIBILITIES: The successful candidate will have established a publishing track record, exhibit demonstrable skills in plant systematics and field taxonomy, knowledge of herbarium curation, and a strong commitment to teaching. Teaching responsibilities will include courses that support our four undergraduate majors: Ecology and Environmental Science, Natural Resources Law Enforcement, Rangeland Ecology and Management and Wildlife and Fisheries Sciences. Specifically, the successful candidate will teach systematics and identification of terrestrial and aquatic plant species, and prairie and grassland habitat conservation and management. This position will advise undergraduate and graduate students and assist in recruitment and placement. A commitment to enhancing public support of plant systematics and the vital role of field botany to professional stakeholders is also expected.

MINIMUM QUALIFICATIONS: Applicants must have completed their Ph.D. by application date in a research area germane to plant conservation biology and/or plant taxonomy; post-doctoral experience is preferred. Candidate must be an enthusiastic scientist and teacher with excellent communication skills (verbal, written and electronic). Applicant must demonstrate the ability to work cooperatively with other faculty, extension field specialists, producers, and other clientele.

PREFERRED QUALIFICATIONS: We prefer a candidate with postdoctoral experience and an established record of external grant funding with accompanying publications in peer-reviewed journals; proven experience in grant budget management; demonstrated interest, knowledge and accomplishments in teaching pedagogy and scholarship of teaching and learning; and an expert skill set in plant conservation biology, field botany and plant taxonomy with experience in prairie or grassland systems.

SALARY: Commensurate with qualifications and experience.

UNIVERSITY/COMMUNITY: South Dakota State University, founded in 1881, is the state's land grant institution and its largest and most comprehensive institution of higher learning. It is a designated Carnegie Research University-High Intensity, and enrolls approximately 12,500 students. SDSU and the NRM department offers research and teaching opportunities at four field stations, two with equipped laboratories and long-term data sets. These field stations offer opportunities to investigate the influence of fire, grazing and other manipulative tools on prairie and grassland vegetation dynamics. Other departments with plant biology exper-

tise in the College of Agriculture and Biological Sciences include Biology & Microbiology and Plant Science. Additionally, the SDSU Functional Genomics Core Facility facilitates interdisciplinary gene function research and training. Moreover, the McCrory Gardens is adjacent to campus and houses the South Dakota State Arboretum.

South Dakota State University is located in Brookings, on the east-central border of South Dakota. Brookings is an economically vibrant and welcoming

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TexasAM Galveston MarineMicrobialEvolution

Even though this position is titled “Marine Microbial Ecology”, we welcome applications with a more evolutionary focus as well.

POSITION ANNOUNCEMENT ASSISTANT PROFESSOR IN MARINE MICROBIAL ECOLOGY

The Department of Marine Biology at Texas A&M University at Galveston (TAMUG) invites applications for a tenure-track Assistant Professor position in Marine Microbial Ecology. We seek an individual with a Ph.D. and preferably postdoctoral or equivalent experience whose research complements that of faculty in the Department of Marine Biology (www.tamug.edu/marb). Candidates with research interests in any area of marine microbiology will be considered, including environmental microbiology, microbial ecology, marine microbial genomics, pathogens of aquatic organisms, human pathogens in aquatic environments, and marine microbial natural products. Individuals should have experience with high throughput sequencing approaches, as well as classical microbial analytical and culture techniques. Competitive candidates will demonstrate the potential for interdisciplinary research collaborations across the departments of Marine Biology and Marine Sciences as well as with researchers on the main campus. Teaching responsibilities will include an upper-level undergraduate course in marine microbial ecology and undergraduate or graduate courses in laboratory techniques and/or data processing. The successful applicant will be expected to establish and sustain an externally funded research

program as well as mentor undergraduate and graduate students. Salary is commensurate with qualifications and experience.

TAMUG is the ocean-oriented branch campus of Texas A&M University (TAMU). In addition to undergraduate programs, TAMUG is the host campus of a graduate-level Interdisciplinary Degree Program (IDP) in Marine Biology, which is comprised of faculty from six departments within the Texas A&M University System. Apart from the IDP, members of the Department of Marine Biology also maintain joint or graduate appointments in departments on the main campus. A joint or graduate appointment in the Department of Marine Sciences on the Galveston Campus is also an option. The TAMUG departments are housed in the new Ocean and Coastal Studies Building, which is home to over 20 research laboratories, two teaching laboratories, and a Sea Life Center with running sea water systems. Various shared and core facilities are available locally and on the main campus with instrumentation for advanced microscopy, genomic and biogeochemical analyses.

Applications should be received by November 30, 2015 for full consideration. Anticipated start date for the position is fall 2016. To apply, send a curriculum vitae, statement of current research and teaching interests and list of three references with contact information to: Chair, Marine Biology Search Committee PAR # 3821, c/o Human Resources Department, Texas A&M University at Galveston, P.O. Box 1675, 200 Seawolf Parkway, Galveston, TX 77553-1675 or by email referencing PAR # 3821 (hr@tamug.edu).

For more information regarding the position, contact the Department Head of Marine Biology (Dr. John R. Schwarz) by e-mail (schwarzj@tamug.edu). Employment is contingent upon successful completion of a background check and verification of eligibility to work in the U.S. Texas A & M University at Galveston is an Equal Opportunity/Affirmative Action/Veterans/ Disability Employer.

Notice of Non-discrimination <http://vpfa.tamu.edu/-media/642261/NoticeOfNonDiscrimination.pdf> Anja Schulze <schulzea@tamug.edu>

TulaneU EvolutinaryBiol Deadline

Assistant/Associate Professor: Ecology and Evolutionary Biology

The Department of Ecology and Evolutionary Biology, Tulane University, is conducting a broad search for an Ecologist or Evolutionary Biologist. We are interested in applicants who will fit into our department's focal research areas of tropical biology and coastal wetlands. We are especially interested in applicants whose research is solutions-based and who would expand departmental expertise in areas of bioinformatics, genomics, biostatistics, urban ecology, or disease ecology. Applicants with a taxonomic focus on plants, invertebrates, or microbes are particularly encouraged to apply.

Submit letter of application, curriculum vitae, statements of research and teaching interests, three selected publications, and names and addresses of three references to: apply.interfolio.com/30088. This site will begin accepting applications on August 1. Review of applications will begin *October 15, 2015*, and the search will remain open until the position is filled. Tulane is an EOE/M/F/Vet/Disabled employer.

See <http://tulane.edu/sse/eebio/about/positions/-research-positions.cfm> for details about the position, department, and search.

Please contact any member of the search committee below if you have additional questions

Dr. Tom Sherry (tsherry@tulane.edu, committee chair)
Dr. Caz Taylor (caz@tulane.edu) Dr. Sunshine Van Bael (svanbael@tulane.edu) Dr. Elizabeth Derryberry (ederrybe@tulane.edu)

Elizabeth Derryberry, Ph.D. Assistant Professor Ken and Ruth Arnold Early Career Professor in Earth & Ecological Science Department of Ecology & Evolutionary Biology Tulane University New Orleans, LA 70118 504-862-8285 (office) 504-862-8706 (fax) elizabethderryberry.tulane.edu

Elizabeth Derryberry <ederrybe@tulane.edu>

UAlabama HostPathogenInteractions

Are you studying the influence of host-parasite/pathogen interactions on phenotypic evolution? The Department of Biological Sciences at the University of Alabama is seeking tenure-track Assistant Professor applications in this field! The full ad is appended below:

The Department of Biological Sciences at the University of Alabama, Tuscaloosa, invites applications for a tenure-track Assistant Professor position in Disease Ecology. The successful candidate should have a strong background in research examining host-parasite or host-pathogen interactions at the population and/or community level. Applicants should employ integrative approaches to characterize the dynamics of disease transmission, parasite/pathogen manipulation of host behavior and physiology, links between social context and disease susceptibility, phenotypic evolution driven by host-parasite/pathogen interactions, or related areas. Candidates that utilize either field-based approaches or laboratory-based investigations are encouraged to apply. Applicants must have a Ph.D. and post-doctoral or equivalent experience. Evidence of significant intellectual contributions to the field and a demonstrated commitment to teaching at both the undergraduate and graduate levels are also required. The successful applicant will be expected to establish an extramurally funded and internationally recognized research program. Teaching responsibilities will include introductory biology, undergraduate courses in disease ecology or parasitology, and graduate courses in the successful candidate's area of expertise.

Queries for additional details should be addressed to the chair of the search committee: Dr. Ryan L. Earley at rlearley@ua.edu. To apply, go to <http://facultyjobs.ua.edu/postings/37673>, complete the online application (Job #0809744), and upload: (1) an application letter with a list of three to five references (including contact information); (2) CV; (3) statement of research interests and goals; and (4) statement of teaching interests and philosophy. The search committee will request letters of reference as appropriate. Consideration of applications will begin 28 October 2015, and will continue until the position is filled. Prior to hiring, the final candidate will be required to pass a pre-employment background investigation. The start date is August 16,

2016. Additional information about the Department of Biological Sciences and this position can be found on our website at <http://bsc.ua.edu>. Applications from women and members of traditionally underrepresented groups in Biology are especially encouraged. The University of Alabama is an Equal Opportunity/Equal Access Employer and actively seeks diversity among its employees.

“Earley, Ryan Louis” <rlearley@ua.edu>

UAlabama PlantSystematics

THE UNIVERSITY OF ALABAMA Plant Systematist

The Department of Biological Sciences at The University of Alabama invites applications for a tenure-track faculty position at the rank of Assistant Professor in Plant Systematics to begin August 2016. All taxonomic groups of vascular plants will be considered. Applicants whose research integrates field and museum-based studies with modern genomic approaches to address fundamental questions in taxonomy, systematics, biogeography, and evolution of vascular plants are encouraged to apply. The successful applicant will be expected to establish an active independent research program, attract extramural funding, and must be committed to excellence in teaching and mentoring undergraduate and graduate students. Ability to teach upper level courses in plant systematics, dendrology or field botany is desired and one or more graduate courses in the candidate's area of expertise. The successful applicant is expected to curate the UNA Herbarium maintained by the Department of Biological Sciences and must provide evidence of curatorial experience and/or other relevant abilities. The Herbarium at the University of Alabama contains significant holdings of vascular plants from the USA and the neotropics, and particularly from SE USA freshwater habitats. Individuals interested in diversifying this actively growing collection are encouraged to apply. The successful candidate also would serve as the Departments liaison with the University of Alabama Arboretum. Candidates must have a Ph.D. in the Biological Sciences or a related field and postdoctoral (or equivalent job) experience.

A complete application includes

- (1) an application letter with a list of at least four references (including contact information);
- (2) CV;
- (3) statement of research interests and goals;
- (4) statement of teaching interests and philosophy; and
- (5) statement of curatorial experience(s) and philosophy.

Letters of reference will be requested by the search committee as appropriate. To apply, go to <https://facultyjobs.ua.edu>, complete the online application (Job #0809743) and upload all requested documents. Questions about the position may be addressed to Dr. Juan Lopez-Bautista, jlopez@ua.edu, (205) 348-1791. Consideration of applications will begin no later than October 28, 2015 and will continue until the position is filled. For more information about the department, visit our website at <http://bsc.ua.edu>. Applications from women and members of traditionally under-represented groups in Biology are especially encouraged. The University of Alabama is an Equal Opportunity/Equal Access Employer and actively seeks diversity among its employees.

Juan M. Lopez-Bautista Professor and College of Arts and Sciences Leadership Board Fellow The University of Alabama, Department of Biological Sciences 500 Hackberry Lane, Mary Harmon Bryant Hall #309 Tuscaloosa, AL 35487-0345 <http://www.phycolab.ua.edu> Ph Office (205) 348-1791 Lab (205) 348-7383 Students (205)-348-5828 Postdocs (205)-348-3582

“Lopez-Bautista, Juan” <jlopez@ua.edu>

UAlberta Plant Genomics

UNIVERSITY OF ALBERTA Department of Biological Sciences

Tenure-track position in Plant Genomics Assistant/Associate Professor

The University of Alberta invites applications for a tenure-track position at the Assistant or Associate Professor level Department of Biological Sciences in the Faculty of Science. We are seeking an excellent candidate whose innovative research focuses on the biology of plants or plant systems, including areas such as biochemistry, development, physiology, molecular biology, and plant interactions with other organisms. We view plants and plant systems broadly, including vascular, non-vascular and non-seed plants, algae, and plant-microbe or plant-fungal interactions. Candidate's research will include a genomic dimension; we particularly welcome applicants with demonstrated research strengths in functional genomics techniques that include but are not limited to transcriptomics, metabolomics, proteomics, epigenomics and/or metagenomics. Expertise in bioinformatics is considered a complementary asset, as is evidence of cross-disciplinary collaboration in fields such as evolutionary developmental biology and

quantitative or population genomics. The appointment will be normally made at the Assistant or Associate Professor level.

The Department of Biological Sciences (<http://www.biology.ualberta.ca>) comprises over 65 faculty members conducting research and teaching across scales of biological organization from molecular to global and geological time. The successful candidate will be expected to contribute to a vibrant, forward-looking Department through teaching in the Department's undergraduate and graduate programmes; building upon their expertise to develop an independent, original, externally funded research programme that includes the ability to recruit and supervise undergraduate and graduate students; and contributing to a collegial environment through service. The successful candidate will augment the Department's existing strengths in Plant Biology. The Department houses outstanding facilities for conducting research in genomics, including plant growth facilities, a microscopy unit equipped with confocal and electron microscopes, and a molecular biology service unit housing liquid handling robots, next generation sequencers, real-time PCR, and liquid chromatography-tandem mass spectrometry instrumentation.

Applicants must hold a PhD in the biological sciences or related field, with postdoctoral experience in a discipline relevant to plant biology and functional genomics. The successful candidate will have a strong publication record demonstrating exceptional research expertise in plant biology and genomics, and show the ability or potential to obtain external funding from different programmes or sources to develop a strong research programme. The successful candidate will have the ability to teach courses in topics such as plant biology, biochemistry, molecular biology, and genomics. Prior experience in teaching and mentorship is highly desirable. An outstanding candidate will be invited by the Dean, Faculty of Science, to apply for a Canada Research Chair at the Tier II level. (www.chairs-chaire.gc.ca)

Candidates should electronically submit a curriculum vitae, a two-page summary of research interests, a one-page statement of teaching interests, and reprints of their three most significant publications to recruitment1@biology.ualberta.ca. Please arrange for three letters of reference to be sent to the attention of the Chair to recruitment1@biology.ualberta.ca

All correspondence should be addressed to:

Dr. Michael Caldwell, Chair Department of Biological Sciences CW405 Biological Sciences Building University of Alberta Edmonton, AB Canada T6G 2E9

Closing Date: December 23, 2015 The effective date of

employment will be July 1, 2016

All qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents will be given priority. The University of Alberta hires on the basis of merit. We are committed to the principle of equity in employment. We welcome diversity and encourage applications from all qualified women and men, including persons with disabilities, members of visible minorities, and Aboriginal peoples.

Linda Christensen <linda.christensen@ualberta.ca>

UAlberta PlantGenomics 2

UNIVERSITY OF ALBERTA Department of Biological Sciences

Tenure-track position in Plant Genomics Assistant/Associate Professor

The University of Alberta invites applications for a tenure-track position at the Assistant or Associate Professor level Department of Biological Sciences in the Faculty of Science. We are seeking an excellent candidate whose innovative research focuses on the biology of plants or plant systems, including areas such as biochemistry, development, physiology, molecular biology, and plant interactions with other organisms. We view plants and plant systems broadly, including vascular, non-vascular and non-seed plants, algae, and plant-microbe or plant-fungal interactions. Candidate's research will include a genomic dimension; we particularly welcome applicants with demonstrated research strengths in functional genomics techniques that include but are not limited to transcriptomics, metabolomics, proteomics, epigenomics and/or metagenomics. Expertise in bioinformatics is considered a complementary asset, as is evidence of cross-disciplinary collaboration in fields such as evolutionary developmental biology and quantitative or population genomics. The appointment will be normally made at the Assistant or Associate Professor level.

The Department of Biological Sciences (<https://uofa.ualberta.ca/biological-sciences>) comprises over 65 faculty members conducting research and teaching across scales of biological organization - from molecular to global - and geological time. The successful candidate will be expected to contribute to a vibrant, forward-looking Department through teaching in the Department's undergraduate and graduate programmes;

building upon their expertise to develop an independent, original, externally funded research programme that includes the ability to recruit and supervise undergraduate and graduate students; and contributing to a collegial environment through service. The successful candidate will augment the Department's existing strengths in Plant Biology. The Department houses outstanding facilities for conducting research in genomics, including plant growth facilities, a microscopy unit equipped with confocal and electron microscopes, and a molecular biology service unit housing liquid handling robots, next generation sequencers, real-time PCR, and liquid chromatography-tandem mass spectrometry instrumentation.

Applicants must hold a PhD in the biological sciences or related field, with postdoctoral experience in a discipline relevant to plant biology and functional genomics. The successful candidate will have a strong publication record demonstrating exceptional research expertise in plant biology and genomics, and show the ability or potential to obtain external funding from different programmes or sources to develop a strong research programme. The successful candidate will have the ability to teach courses in topics such as plant biology, biochemistry, molecular biology, and genomics. Prior experience in teaching and mentorship is highly desirable. An outstanding candidate will be invited by the Dean, Faculty of Science, to apply for a Canada Research Chair at the Tier II level. (www.chairs-chaire.gc.ca)

Candidates should electronically submit a curriculum vitae, a two-page summary of research interests, a one-page statement of teaching interests, and reprints of their three most significant publications to recruitment1@biology.ualberta.ca. Please arrange for three letters of reference to be sent to the attention of the Chair to recruitment1@biology.ualberta.ca

All correspondence should be addressed to: Dr. Michael Caldwell, Chair Department of Biological Sciences CW405 Biological Sciences Building University of Alberta Edmonton, AB Canada T6G 2E9

Closing Date: December 23, 2015 The effective date of employment will be July 1, 2016

All qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents will be given priority. The University of Alberta hires on the basis of merit. We are committed to the principle of equity in employment. We welcome diversity and encourage applications from all qualified women and men, including persons with disabilities, members of visible minorities, and Aboriginal peoples.

Linda Christensen, Administrative Assistant Depart-

ment of Biological Sciences University of Alberta
CW405 Biological Sciences Building Edmonton, AB
T6G 2E9 Phone: 780-492-7348, Fax: 780-492-9234 e-
mail: linda.christensen@ualberta.ca

Linda Christensen <linda.christensen@ualberta.ca>

UArkansas PlantEvolutionaryBiol

ASSISTANT PROFESSOR in PLANT EVOLUTION- ARY BIOLOGY

The Department of Biological Sciences at the University of Arkansas invites applications for a 9-month tenure-track faculty position in Plant Evolutionary Biology at the Assistant Professor level to start August 2016.

We seek candidates with a research focus on evolutionary aspects of land plants (embryophytes), working in areas including, but not limited to, phylogenetically based comparative biology, evolutionary ecology, or the genetics of adaptation and speciation. Candidates implementing phylogenomic, comparative analysis, or quantitative approaches to answer compelling issues in plant biology are encouraged to apply. Minimum requirements include a Ph.D. and post-doctoral experience in land plants and evolutionary biology, and demonstrated research accomplishments. Successful candidates will be expected to establish a dynamic extramurally-funded research program, teach an undergraduate course in evolutionary biology, contribute to or develop an undergraduate- or graduate-level plant course, and participate in departmental service.

The Department of Biological Sciences emphasizes cell and molecular biology, ecology and evolutionary biology. Biological sciences maintains one of the largest undergraduate majors in the university. Special topics courses, interdisciplinary graduate programs and undergraduate research opportunities expose students to a rigorous background in basic and advanced biology and allow for specialized coursework. Additional information about the Department of Biological Sciences at the University of Arkansas can be found at: <http://biology.uark.edu>. There are additional opportunities for collaboration and graduate recruitment through the Cell and Molecular Biology program (<http://cemb.uark.edu>), Statistics and Analytics program (<http://grad.uark.edu/stan>), Environmental Dynamics program (endy.uark.edu) and the Arkansas High Performance Computing Center (<http://hpc.uark.edu/hpc/>).

All application materials (Application letter, Curriculum vitae, teaching statement, and research statement) are submitted through the faculty position listing at <http://jobs.uark.edu/postings/10034>. The names, titles, email addresses, and contact numbers of three professional references willing to provide letters of reference will be requested during the application process. Specific inquiries may be directed to the Search Committee Chair, Dr. Jeffrey Silberman (jeff@uark.edu). Applications received by 25 November 2015 will receive full consideration, and late applications may be considered as necessary to fill the position.

The University of Arkansas is an Affirmative Action/Equal Opportunity Employer. The university welcomes applications without regard to age, race, gender (including pregnancy), national origin, disability, religion, marital or parental status, protected veteran status, military service, genetic information, sexual orientation or gender identity. Persons must have proof of legal authority to work in the United States on the first day of employment. All applicant information is subject to public disclosure under the Arkansas Freedom of Information Act.

Jeffrey Donald Silberman <jeff@uark.edu>

UBath Bioinformatics PlantPathogenInteractions

As the first part of a multi-step hiring plan we are seeking outstanding individuals to join our new Milner Centre for Evolution at The University of Bath. The Milner Centre, led by Professor Laurence Hurst <<http://people.bath.ac.uk/bssldh/LaurenceDHurst/-Home.html>> FRS is the first dedicated centre for research and public engagement for evolutionary science in the UK (<http://www.bath.ac.uk/projects/the-milner-centre-for-evolution/>). Three positions are available:

1. Director of Bioinformatics:

This Reader-level appointment is core to the pure and applied evolution themes of the Milner Centre and is intended to enhance our standing in evolutionary genomics. Aside from an independent research program, the successful candidate will be responsible for the design and maintenance of a bioinformatics cluster and provide advice on pipe development and optimal technologies/packages. In addition, they will play a central role in establishing and managing a Masters Program

in Bioinformatics; this initiative will build on the recent establishment of the Tarr computational suite. Applicants with experience of any branch of bioinformatics are encouraged to apply:

<https://www.bath.ac.uk/jobs/Vacancy.aspx?ref=-3DFY3456> 2. Lecturer (Assistant Professor) in plant-pathogen interactions and evolution

This post will maintain our current level of research and teaching activity in the critically important fields of plant disease management and food security. Although the post is formally independent of our new Milner Centre for Evolution, key areas of synergy are envisaged. Hence we will favour applicants researching the evolution of plant host-pathogen interactions, particularly where relevant to agriculture. The appointee will help deliver plant pathology and plant biotechnology teaching. The successful candidate should have an excellent track record in publishing and ideally have demonstrated ability to attract funding:

<https://www.bath.ac.uk/jobs/Vacancy.aspx?ref=-3DFY3457> 3. Lecturer (Assistant Professor) in Evolution

Preference will be given to candidates working in whole organism biology (including evolutionary conservation biology and behavioural ecology), but all fields will be considered. The candidate will be expected to develop and run courses, including a field course, in whole organism biology although this need not be their focal interest. The successful candidate should have an excellent track record in publishing and ideally have demonstrated ability to attract funding:

<https://www.bath.ac.uk/jobs/Vacancy.aspx?ref=-3DFY3458> Informal enquiries may be made to Professor Rod Scott, Department of Biology and Biochemistry on 01225 383136.

Laurence D. Hurst FMedSci FRS Professor of Evolutionary Genetics The Milner Centre for Evolution Department of Biology and Biochemistry University of Bath Bath Somerset, UK BA2 7AY

Tel: +44 (0)1225 386424 Fax: +44 (0)1225 386779 Email: l.d.hurst@bath.ac.uk Website: <http://people.bath.ac.uk/bssldh/LaurenceDHurst/Home.html>
Laurence Hurst <L.D.Hurst@bath.ac.uk>

UBath Evolution

We are advertising a position for a Lecturer (Assistant Professor) broadly working on evolution at the University of Bath. We will consider applications across all areas of evolutionary research, but preference will be given to candidates working on problems at the level of whole organism biology (including evolutionary conservation biology and behavioural ecology). See:

<https://www.bath.ac.uk/jobs/Vacancy.aspx?ref=ÿ3458>

The candidate will be expected to develop and run courses, including a field course, in whole organism biology although this need not be their focal interest. The successful candidate should have an excellent track record in publishing and ideally have demonstrated ability to attract funding. The candidate will join the new Milner Centre for Evolution:

<http://www.bath.ac.uk/projects/the-milner-centre-for-evolution/> The Centre is currently recruiting for two other positions (see links below) and is likely to recruit additional positions in the near future.

Other positions available at the University of Bath:

Director of Bioinformatics: This is intended to be an academic position, with appointment at the Reader level (which roughly translates to being between associate and full professor). See:

<https://www.bath.ac.uk/jobs/Vacancy.aspx?ref=ÿ3456>

Lecturer (Assistant Professor) in plant-pathogen interactions and evolution. See

<https://www.bath.ac.uk/jobs/Vacancy.aspx?ref=ÿ3457>

Informal enquiries may be made to Professor Rod Scott, Department of Biology and Biochemistry on 01225 383136.

jason@evolutionarygenetics.org

UCalifornia Davis PlantBreeder

Tenure track Woody Plant Breeder Position: University of California, Davis.

The Department of Plant Sciences in the College of Agricultural and Environmental Sciences at the University of California, Davis is recruiting an Assistant Professor Plant Sciences - Woody Plant Geneticist/Breeder with a preferred emphasis in genetics, genomics, germplasm improvement and breeding of California nut crops (walnut, pistachio, other). This is an academic year (9-month), Assistant Professor tenure-track position with teaching, research, outreach/engagement and service responsibilities and includes the expectation that the appointee will conduct mission-oriented research and outreach/engagement of relevance to the California Agricultural Experiment Station.

Research will on focus genetics, genomics, germplasm improvement and breeding of California nut crops (walnut, pistachio, other) This can include the use of genomic methods and strategies to link advances in genotyping, phenotyping and population and quantitative genetics theory to crop improvement. Expertise in genomic selection theory and application is desirable. The faculty member would be expected to lead a long-standing and industry supported breeding program in walnut and possibly other nut crops. The incumbent will lead an active germplasm improvement and varietal breeding program for both scion and rootstock. Research strategies could include genome sequencing, genetic association and mapping studies, identification of important genes/traits, population genetics and marker-assisted selection strategies for maintaining genetic variation and its efficient utilization, and genetic/physiological mechanisms underlying these traits. The position will require participation in multi-disciplinary teams, consistent with the Plant Sciences department's emphasis on discovery and application of fundamental science ranging from the molecular level to field applications. Interactions and collaborations with colleagues at UC Davis, Cooperative Extension (CE), other academic or research institutions, and agricultural industry stakeholders are expected. The candidate will be expected to establish a vigorous, dynamic and innovative teaching program and contribute to teaching of core courses in the undergraduate plant sciences curriculum in the areas of plant genetics and breeding. The candidate will also teach at the graduate level within her/his area of

research expertise in the horticulture and agronomy, genetics, plant biology or other relevant graduate groups. Enthusiastic and effective advising and mentoring of undergraduate and graduate students and postdoctoral fellows is expected. The successful candidate will be expected to participate in departmental, college, and campus committees and programs and work with state, regional and national organizations as appropriate to address the mission of the department, college and Agricultural Experiment Station (AES).

Qualifications: Ph.D. or equivalent degree in breeding, genetics, genomics or related area, with preferred experience in the area of genetics and breeding. Post-doctoral experience is preferred. Evidence of research excellence is expected. The candidate should have the ability to develop and instruct undergraduate and graduate courses.

Salary: Commensurate with experience within the Assistant Professor rank at the University of California.

TO APPLY: Candidates should begin the application process by registering online at <http://recruitments.plantsciences.ucdavis.edu> Please include statements of research goals for this position and teaching philosophy, curriculum vitae, publication list, copies of 3 of your most important research publications, copies of undergraduate and graduate transcripts (if within 5 years of either degree), and the names, e-mail addresses, and telephone numbers of at least five professional references. Optional material: Statement of Contributions of Diversity. For technical or administrative questions regarding the application process please email Melanie Greenleaf at mjgreenleaf@ucdavis.edu. Review of the applications will begin October 15, 2015. The position will remain open until filled.

Dr. David Neale Chair, Search Committee Department of Plant Sciences University of California 262C Robbins Hall Davis, CA 95616 E-mail dbneale@ucdavis.edu

“UC Davis is an affirmative action/equal employment opportunity employer and is dedicated to recruiting a diverse faculty community. We welcome all qualified applicants to apply, including women, minorities, veterans, and individuals with disabilities.

Melanie Greenleaf

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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>

UCalifornia Davis PlantBreeder 2

Tenure track Woody Plant Breeder Position: University of California, Davis.

The Department of Plant Sciences in the College of Agricultural and Environmental Sciences at the University of California, Davis is recruiting an Assistant Professor Plant Sciences - Woody Plant Geneticist/Breeder with a preferred emphasis in genetics, genomics, germplasm improvement and breeding of California nut crops (walnut, pistachio, other). This is an academic year (9-month), Assistant Professor tenure-track position with teaching, research, outreach/engagement and service responsibilities and includes the expectation that the appointee will conduct mission-oriented research and outreach/engagement of relevance to the California Agricultural Experiment Station.

Research will on focus genetics, genomics, germplasm improvement and breeding of California nut crops (walnut, pistachio, other) This can include the use of genomic methods and strategies to link advances in genotyping, phenotyping and population and quantitative genetics theory to crop improvement. Expertise in genomic selection theory and application is desirable. The faculty member would be expected to lead a long-standing and industry supported breeding program in walnut and possibly other nut crops. The incumbent will lead an active germplasm improvement and varietal breeding program for both scion and rootstock. Research strategies could include genome sequencing, genetic association and mapping studies, identification of important genes/traits, population genetics and marker-assisted selection strategies for maintaining genetic variation and its efficient utilization, and genetic/physiological mechanisms underlying these traits. The position will require participation in multi-disciplinary teams, consistent with the Plant Sciences department's emphasis on discovery and application of fundamental science ranging from the molecular level to field applications. Interactions and collaborations with colleagues at UC Davis, Cooperative Extension (CE), other academic or research institutions, and agricultural industry stakeholders are expected. The candidate will be expected to establish a vigorous, dynamic and innovative teaching program and contribute to teaching of core courses in the undergraduate plant sciences curriculum in the areas of plant genetics and breeding. The candidate will

also teach at the graduate level within her/his area of research expertise in the horticulture and agronomy, genetics, plant biology or other relevant graduate groups. Enthusiastic and effective advising and mentoring of undergraduate and graduate students and postdoctoral fellows is expected. The successful candidate will be expected to participate in departmental, college, and campus committees and programs and work with state, regional and national organizations as appropriate to address the mission of the department, college and Agricultural Experiment Station (AES).

Qualifications: Ph.D. or equivalent degree in breeding, genetics, genomics or related area, with preferred experience in the area of genetics and breeding. Post-doctoral experience is preferred. Evidence of research excellence is expected. The candidate should have the ability to develop and instruct undergraduate and graduate courses.

Salary: Commensurate with experience within the Assistant Professor rank at the University of California.

TO APPLY: Candidates should begin the application process by registering online at <http://recruitments.plantsciences.ucdavis.edu> Please include statements of research goals for this position and teaching philosophy, curriculum vitae, publication list, copies of 3 of your most important research publications, copies of undergraduate and graduate transcripts (if within 5 years of either degree), and the names, e-mail addresses, and telephone numbers of at least five professional references. Optional material: Statement of Contributions of Diversity. For technical or administrative questions regarding the application process please email Melanie Greenleaf at mjgreenleaf@ucdavis.edu. First review of the applications will begin November 15, 2015. The position will remain open until filled.

Dr. David Neale Chair, Search Committee Department of Plant Sciences University of California 262C Robbins Hall Davis, CA 95616 E-mail dbneale@ucdavis.edu

“UC Davis is an affirmative action/equal employment opportunity employer and is dedicated to recruiting a diverse faculty community. We welcome all qualified applicants to apply, including women, minorities, veterans, and individuals with disabilities.

Melanie Greenleaf

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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>

hillary.young@gmail.com

UCalifornia SantaBarbara QuantitativeModeling

The Department of Ecology, Evolution and Marine Biology (EEMB; www.eemb.ucsb.edu) at the University of California, Santa Barbara invites applications for a tenure-track faculty position in Quantitative Ecology, at the rank of Assistant Professor. We are searching for a highly creative and interactive scholar who fits into our multidisciplinary department. The area and system of study are open, although we are most interested in candidates who will address fundamental topics in ecological theory through the use of modeling and analytical approaches. We encourage applications from candidates who adopt an integrative approach in their research.

The candidate is expected to have or develop an internationally recognized research program, mentor graduate and undergraduate students in the candidates area of expertise, and teach both graduate and undergraduate courses. This position requires a PhD at the time of appointment.

Applicants should submit: 1) a cover letter, 2) a curriculum vitae, 3) a statement of research that covers research accomplishments and future plans, 4) a statement of teaching experience and interests, 5) three selected publications, and 6) letters of recommendation from three to four persons with the ability to evaluate the candidate. EEMB is especially interested in candidates who can contribute to the diversity and excellence of the academic community through research, teaching and service. Submit applications electronically at: <https://recruit.ap.ucsb.edu/apply/JPF00583>. Review of applicants will begin November 25, 2015 and will continue until the position has been filled.

The University of California is an Equal Opportunity/Affirmative Action Employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability status, protected veteran status, or any other characteristic protected by law.

Hillary S Young Noble Hall 2116 Department of Ecology, Evolution, and Marine Biology University of California, Santa Barbara Santa Barbara, CA Phone: 805-893-4681 <http://www.eemb.ucsb.edu/people/faculty/young>

UCBerkeley StatisticalEvolutionaryGenetics

Postdoctoral Scholar- Statistical Evolutionary Genetics

The Nielsen lab at UC Berkeley is seeking a postdoc in statistical genetics to work on evolutionary modeling and methods for statistical inferences for DNA sequencing data in the context of ontogenetic trees. The postdoc will be hired as part of a joint project with the Makova group at Penn State. The candidate should have a strong background in computational statistics and statistical modeling. The ideal candidate also has previous experience with development of methods for statistical inference in population genetics and/or phylogenetics, including familiarity with computationally intensive methods such as MCMC, and has previous experience with Next Generation Sequencing data.

The initial appointment will be for 100% time for one year with the expectation of extension based on performance and the availability of funding. Salary: \$42,840-\$50,112 depending on experience and qualifications. This position provides full benefits. UC Berkeley has an excellent benefits package as well as a number of policies and programs to support employees as they balance work and family

Interested individuals should submit application documents as PDFs, which includes, a cover letter, updated curriculum vitae, and names with contact information for at least 3 individuals who have agreed to provide a reference for this specific position. For more information about the position including required qualifications and review date or to submit your application please go to: <https://aprecruit.berkeley.edu/apply/JPF00877>. The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age or protected veteran status. For the complete University of California nondiscrimination and affirmative action policy see: <http://policy.ucop.edu/doc/4000376/-NondiscrimAffirmAct>. "rasmus.nielsen@berkeley.edu" <rasmus.nielsen@berkeley.edu>

UCBerkeley ViralEvolution

THE UNIVERSITY OF CALIFORNIA, BERKELEY VIROLOGIST

*The department of Plant and Microbial Biology at UC Berkeley is hiring an Assistant Professor of Virology: <https://aprecruit.berkeley.edu/apply/JPF00824> < <https://aprecruit.berkeley.edu/apply/JPF00824> >. One of the areas they are looking for is evolution, and the evolution of viral interactions would be a perfect fit for the department and a fantastic addition to a growing group in evolutionary and ecological microbiology. *

The Department of Plant and Microbial Biology at the University of California, Berkeley, has an opening for an Assistant Professor (tenure track, nine-month appointment) with an expected start date of July 1, 2016. The Department of Plant and Microbial Biology is seeking applications for a faculty position in virology. We seek an individual studying the biology of viruses, including but not limited to those that impact plants, bacteria, and/or archaea at the individual or community level. Research areas of interest include multiple areas of mechanistic virology, including viral replication, evolution, and virus-host interactions.

Applicants must have a Ph.D. or equivalent degree by the time of application. Candidates must have demonstrated excellence and originality in research and relevant postdoctoral experience by the appointment start date. The successful applicant will be expected to develop an outstanding, extramurally funded research program as well as participate in undergraduate and graduate teaching and will integrate with a dynamic and collaborative group of faculty whose research spans diverse areas of biology including virology, plant-associated and environmental microbes, microbial communities, mycology, and applied microbiology.

They will join a vibrant community of microbiologists on the UC Berkeley campus in the Plant & Microbial Biology Department (<http://pmb.berkeley.edu/>), the Graduate Group of Microbiology (<http://pmb.berkeley.edu/ggm/faculty>) and the UC Berkeley Energy Biosciences Institute (<http://www.energybiosciencesinstitute.org>) with opportunities to establish collaborations with the Innovative Genomics Initiative (<http://innovativegenomics.org/>) and Synthetic Biology Institute (<http://synbio.berkeley.edu/>) and the Berkeley Lab (<http://www.lbl.gov/>), Joint

Genome Institute (<http://www.jgi.doe.gov/>), and the Joint BioEnergy Institute (<http://www.jbei.org/>).

To apply, please go to the following link: <https://aprecruit.berkeley.edu/apply/JPF00824> Applicants should submit a cover letter, a curriculum vitae, a 2-3 page overview of current and future research interests, a 1 page statement of teaching experience and philosophy, three to five letters of recommendation, and up to five supporting papers (optional). In addition, please provide a statement of contributions to diversity, addressing past and/or potential contributions to diversity through research, teaching, and/or service. All letters of recommendation will be treated as confidential per University of California policy and California state law. Please refer potential referees, including when letters are provided via a third party (i.e., dossier service or career center), to the UC Berkeley statement of confidentiality (<http://apo.berkeley.edu/evalltr.html>) prior to submitting their letters.

The application and all supporting documents should be submitted by the search closing date, November 13, 2015. Applications submitted after the deadline will not be accepted. Please direct questions to pmb-search@berkeley.edu.

For additional information about the Department, the graduate programs and the campus, please visit <http://pmb.berkeley.edu> and <http://berkeley.edu>.

UC Berkeley is interested in recruiting a diverse applicant pool and is committed to addressing the family needs of faculty, including dual career couples and single parents. For information about potential relocation to Berkeley, or career needs of accompanying partners and spouses, please visit: <http://ofew.berkeley.edu/newfaculty>. The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age or protected veteran status.

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UCentralArkansas PopEvolGenetics

TENURE-TRACK FACULTY POSITION

Population/Evolutionary Geneticist

The Department of Biology at the University of Central Arkansas invites applications for a tenure-track position in the area of Population/Evolutionary Genetics. Teaching responsibilities will include sophomore-level Genetics for majors and upper-division/graduate courses that augment our current programs. The appointment will be at the Assistant Professor level and will begin August 15, 2016. Applications are sought from outstanding individuals who value quality teaching and are dedicated to developing an active research program involving both undergraduate and Masters level students. The position offers a reduced teaching load initially, dedicated research space, start-up funding, and opportunities for internal as well as external grants.

The Department of Biology has 35 full-time faculty, approximately 700 undergraduate majors, an interdisciplinary Environmental Science program, and a growing Masters program that currently enrolls 25 graduate students (18 institutionally supported TA positions). A new research and teaching addition is under construction and scheduled to open January 2017. The department is research active with funding from external, competitive sources (e.g., NSF, NIH, federal and state agencies). Shared research space and instrumentation includes plant growth chambers, three greenhouses, approved animal facilities, a real-time PCR machine, confocal microscope, and a flow cytometer. Please visit our website for more details <http://uca.edu/biology/>. Once on this website, enter 173149 as the Position Number to access the full advertisement.

Submit letter of interest, curriculum vitae, copies of graduate transcripts, statement of teaching philosophy, an outline of research plans indicating where students may participate, and the names and contact information for three references to the on-line application process at <https://jobs.uca.edu>. Review of applications will begin December 1 and will continue until the position is filled. Questions regarding the position may be sent to Dr. Brent Hill, Interim Chair of Biology (bhill@uca.edu).

Ph.D. required. Post doctoral experience is preferred. Review of applications will begin December 1. UCA is an Equal Opportunity/Affirmative Action Employer.

Matthew E. Gifford Assistant Professor Department of Biology University of Central Arkansas 201 Donaghey Ave. Conway, Arkansas 72035 Office: LSC120, 501.450.5927 Email: megifford@uca.edu Web: gifford-lab.weebly.com

megifford@uca.edu

UCentralFlorida BehaviouralEvolution

Assistant Professor, Behavioral Ecologist

The Department of Biology at the University of Central Florida (UCF) invites applications for a tenure-track faculty position at the rank of Assistant Professor anticipated to begin in August 2016. We seek a Behavioral Ecologist with an innovative research program guided by fundamental questions in evolutionary biology. Researchers that employ a combination of empirical and theoretical approaches, and that utilize cutting-edge methodological and analytical tools are especially encouraged to apply, regardless of animal taxon or ecosystem.

The successful candidate will be expected to complement departmental research strengths in organismal biology and conservation biology, and will contribute to teaching and mentoring students in our graduate and undergraduate programs (see <http://biology.cos.ucf.edu>).

Applicants must have a Ph.D. from an accredited institution in a relevant field, a strong publication record, and show a demonstrated ability or strong potential to maintain a vigorous, extramurally-funded research program.

UCF has a strong research emphasis and provides competitive startup funds and teaching loads. UCF is designated by the Carnegie Foundation as a doctorate-granting university of very high research activity (RU/VH). This hire is part of multiple departmental hires and 200 new faculty positions university-wide in 2015-16.

Applicants must complete a job application at <http://www.jobswithucf.com/postings/43420>. In addition, applicants must e-mail a single pdf document that includes a letter of intent, curriculum vitae, statements of research interests and teaching philosophy, and contact information for three references to biosearchbe@ucf.edu

Applications will be reviewed until the position is filled;

for full consideration send applications by January 11 2016.

Questions regarding this search may be directed to Dr. Will Crampton, Chair, Behavioral Ecologist Search Committee, at biosearchbe@ucf.edu

The University of Central Florida, the nation's second-largest university with more than 63,000 students, has grown in size, quality, diversity, and reputation in its first 50 years. Today, the university offers more than 200 degree programs at its main campus in Orlando and more than a dozen other locations. UCF is an economic engine attracting and supporting industries vital to the region's future while providing students with real-world experiences that help them succeed after graduation. For more information, visit <http://ucf.edu>. UCF is an equal opportunity/affirmative action employer. All qualified applicants are encouraged to apply, including minorities, women, veterans and individuals with disabilities. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, age, disability or national origin. As a Florida public university, UCF makes all application materials and selection procedures available to the public upon request.

William Crampton <William.Crampton@ucf.edu>

UColorado TeachingEvolution

Tenure-track Assistant Professor Position in Discipline Based Education Research (DBER) in Ecology and Evolution #719642

Specialization - Expertise in education research in the fields of ecology and/or evolutionary biology (EEB). The department will consider applications from individuals with an EEB background and evidence of successful education research in the discipline.

Rank - Tenure-track position at the level of Assistant Professor

Start Date - August 17, 2016

Qualifications - Applicants must have a Ph.D. in either (1) Ecology, Evolutionary Biology, or a related field or (2) Education with a strong emphasis and background in biology. Applicants are expected to have experience in discipline-based education research at the post-secondary level. Post-doctoral experience in ecology and/or evolution education research is desired. Appli-

cants should provide evidence of or show potential to secure extramural funding for education research.

Responsibilities The candidate will (1) establish an independent research program in ecology and evolution education research; (2) contribute to the teaching mission of the undergraduate program; (3) provide teaching and mentoring for graduate students and postdoctoral fellows; and (4) perform service for the department, university, and profession.

General Information The University of Colorado at Boulder (CU) is strongly committed to undergraduate education and a nationally recognized leader in STEM education. The Department of Ecology and Evolutionary Biology is committed to providing a student-centered learning environment for our students and actively participates in the larger network of educators and scientists advancing STEM education at CU and various partner institutions. The faculty roster for the Department of Ecology and Evolutionary Biology includes 32 tenured and tenure-eligible faculty and 4 instructors. The department offers the B.A., M.A., and Ph.D. degrees in ecology and evolution. For more details on the department and the university, visit our website (<http://www.colorado.edu/ebio/>). The University of Colorado desires to establish a community of discipline-based education researchers (DBER) in its IPHY (Integrative Physiology), EBIO (Ecology & Evolutionary Biology), and MCDB (Molecular, Cellular & Developmental Biology) departments. The DBER position for MCDB has already been filled. This year separate searches are being conducted for DBER positions in IPHY and EBIO. It is anticipated that the successful Ecology and Evolution applicant will develop collaborations within the department as well as with broader campus initiatives and programs in STEM education.

Application Procedure - Applications are only accepted electronically at <https://www.jobsatcu.com>, posting #719642. An application requires: (1) cover letter stating qualifications and an explanation of how your expertise adds synergy to existing strengths in the department; (2) separate teaching/mentoring and research statements; (3) current curriculum vita; and (4) names and e-mail addresses of three references who have specific knowledge of your research or teaching skills, or both. They will be asked to submit their letters through Jobs at CU.

The deadline for applications is November 4, 2015. Additional information can be obtained by e-mail to Andrew Martin (andrew.martin-1@colorado.edu). The University of Colorado Boulder is an Equal Opportunity Employer committed to building a diverse workforce. We encourage applications from women, racial and ethnic

minorities, individuals with disabilities, and veterans. Alternative formats of this ad can be provided upon request for individuals with disabilities by contacting the ADA Coordinator at hr-ada@colorado.edu.

After November 4th, you will be redirected to CU Careers, our new career site. In order to access this posting, please use the keyword search for posting #719642.

Andrew Martin Professor University of Colorado A mind once stretched by a new idea never regains its original dimensions.

Andrew Martin <andrew.martin-1@colorado.edu>

UConnecticut Arthropod Evolution Ecology

Assistant Professor, Arthropod Evolution/Ecology Department of Ecology and Evolutionary Biology University of Connecticut

For the complete position announcement, please visit <https://academicjobsonline.org/ajo/jobs/6351> Job Summary: The Department of Ecology and Evolutionary Biology at the University of Connecticut seeks a researcher who uses innovative approaches to address fundamental evolutionary or ecological questions using arthropods as a study system. We especially encourage applications from individuals working in one or more of the following areas: population and evolutionary genomics, species interactions, functional and behavioral biology, population biology, biodiversity, paleobiology, diversification, and adaptation.

This position builds on Departmental strengths in organismal biology, ecology, evolution, systematics, and conservation biology. The Department offers a highly collaborative environment at a top public research university that is committed to fostering a diverse, inclusive academic community. More information about the Department can be found at <http://www.eeb.uconn.edu>. Minimum Qualifications: The successful candidate will have a minimum of two first-authored publications related to arthropod evolution/ecology and have earned a Ph.D. in Ecology and Evolutionary Biology, Entomology, or a related field by time of appointment. Equivalent foreign degrees are acceptable.

Preferred Qualifications: Potential to establish a nationally recognized research program using arthropods to answer fundamental ecological or evolutionary questions; research program that complements and expands

the Department's strengths; evidence of or potential for excellence in teaching and mentoring; commitment to fostering and supporting diversity in the Department and University; broad training in arthropod biology; relevant postdoctoral experience.

Appointment Terms: This is a full-time, 9-month, tenure-track Assistant Professor position with an anticipated start date of August 23rd, 2016.

To Apply: Follow the 'Faculty Positions' link at <http://jobs.uconn.edu>, which will redirect you to Academic Jobs Online. Please submit the following: 1) a cover letter addressing qualifications, including a description of experience with and commitment to enhancing diversity; 2) curriculum vitae; 3) a summary of research accomplishments and future research objectives (3 pages maximum); and 4) a description of teaching experience, interests, and approach (2 pages maximum). Additionally, please follow the instructions in Academic Jobs Online to direct at least three reference writers to submit letters of reference on your behalf. To ensure full consideration, applications should be received by November 2, 2015. We request that all reference letters also be received by this date. (Search # 2016155)

The University of Connecticut is committed to building and supporting a multicultural and diverse community of students, faculty and staff. The diversity of students, faculty and staff continues to increase, as does the number of honors students, valedictorians and salutatorians who consistently make UConn their top choice. More than 100 research centers and institutes serve the University's teaching, research, diversity, and outreach missions, leading to UConn's ranking as one of the nation's top research universities. UConn's faculty and staff are the critical link to fostering and expanding our vibrant, multicultural and diverse University community. As an Affirmative Action/Equal Employment Opportunity employer, UConn encourages applications from women, veterans, people with disabilities and members of traditionally underrepresented populations.

Elizabeth Jockusch Professor, Ecology and Evolutionary Biology University of Connecticut elizabeth.jockusch@uconn.edu

"elizabeth.jockusch@uconn.edu"
<elizabeth.jockusch@uconn.edu>

UDenver PlantEvolution

Associate Professor in Biological Sciences, Plant Ecology
- Kurtz Endowed Chair in Biological Sciences

The Division of Natural Sciences and Mathematics and the Department of Biological Sciences at the University of Denver invites applications for a Plant Ecologist in a tenure-track position at the Associate Professor level to begin September 1, 2016. Applicants at the level of Full Professor will also be considered. We are interested in candidates studying plant ecology at any scale from population to community to landscape ecology, and those interested in plant ecological interactions with other organisms, including in an evolutionary context. Candidates will have a Ph.D. in an appropriate field and demonstrated success in extramural funding with an established research program that complements the research interests of faculty. The successful candidate will be the Kurtz Endowed Chair in Biological Sciences, supervise undergraduate research projects and M.S. and Ph.D. students, teach undergraduate and graduate courses in biology and specific areas of specialty, and will serve as the Director of the Chester Alter Arboretum at the University of Denver by consulting and working with campus facilities. Information on Departmental programs can be found at <http://www.du.edu/nsm/departments/biologicalsciences/>. All candidates must submit their application through <https://dujobs.silkroad.com>. The online application should include: a cover letter, a curriculum vitae, and separate statements of research interests and teaching philosophy and two recent publications. In addition, at least three recommenders should email letters of reference to: Plant Ecology Faculty Search Committee, University of Denver, Department of Biological Sciences at biology.rec@du.edu. The review of applications will begin November 15, 2015 and continue until the position is filled. Contact Dr. Anna Sher at Anna.Sher@du.edu if you have questions regarding the search.

The University of Denver is committed to enhancing the diversity of its faculty and staff and encourages applications from women, minorities, members of the LGBT community, people with disabilities and veterans. The University is an equal opportunity/affirmative action employer.

Shannon M. Murphy

Assistant Professor Department of Biological Sciences

University of Denver 2050 E. Iliff Avenue Denver, Colorado 80208

Office: Boettcher West 302 Lab: Boettcher West 301 Phone: (303) 871-7571 Web: <http://mysite.du.edu/~smurph71> Shannon Murphy <Shannon.M.Murphy@du.edu>

UGeorgia ComputationalPlantBiol

ASSISTANT/ASSOCIATE PROFESSOR POSITION
IN
COMPUTATIONAL PLANT BIOLOGY
AT THE UNIVERSITY OF GEORGIA

Job Summary:

The University of Georgia invites applications at the Assistant/Associate Professor level for a tenure-track faculty position addressing the big data/data science challenges posed by Computational Plant Biology starting August 2016. We welcome applications from candidates who address fundamental computational, technical, and biological challenges in plant biology using appropriate study systems including forest trees and/or their interacting organisms. The candidate should have a Ph.D. or equivalent degree in the sciences or any related field and a strong research record at the interface of computational biology and plant sciences. Candidates currently holding the rank of Associate Professor will be given consideration for hiring at that rank, depending upon experience and qualifications. The successful candidate will join our world-class interdisciplinary plant biology group, with a tenure home in the Franklin College Department of Plant Biology (<http://www.plantbio.uga.edu/>), and joint appointments in both the Institute of Bioinformatics (<http://iob.uga.edu/>) and the Warnell School of Forestry and Natural Resources (<http://www.warnell.uga.edu/>). The faculty in these units are highly interactive and collaborate with plant scientists across campus through the Plant Center (<http://plantcenter.uga.edu/>).

Athens, Georgia is well known for its quality of life in regard to both outdoor and urban activities. The University of Georgia, the oldest state-chartered university in the United States, is a land/sea grant institution located in the city of Athens (<http://visitathensga.com/>), 70 miles northeast of Atlanta.

The University of Georgia and its many units are com-

mitted to increasing the diversity of its faculty and students, and sustaining a work and learning environment that is inclusive. Women, minorities and people with disabilities are encouraged to apply. The University of Georgia is an Equal Opportunity/Affirmative Action employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, gender identity, sexual orientation, national origin, disability, or protected veteran status.

Minimum Qualifications:

The successful candidate must have a PhD and record that demonstrates future leadership in the field of computational biology and the ability to develop and maintain a high impact, externally funded research program while mentoring the next generation of computational biologists through undergraduate and graduate student training.

Special Instruction to applicants:

Candidates should apply at (<http://facultyjobs.uga.edu/postings/338>) and submit the following: (1) vitae, (2) cover letter, (3) research portfolio statement of accomplishments/goals in both computational biology and experimental research, (4) list of references with contact information (they may be contacted by the search committee), (5) PDF including 3 highest impact publications, and (6) teaching philosophy/accomplishments statement that includes bioinformatics instruction. The committee will begin reviewing applications on November 2, 2015, and continue until the position has been filled.

Jim Leebens-Mack Department of Plant Biology 4505 Miller Plant Sciences University of Georgia Athens, GA 30602-7271

Phone: 706-583-5573 Fax: 706-542-1805
 email: jleebensmack@uga.edu url: <http://research.franklin.uga.edu/jleebensmack/> James
 H Leebens-Mack <jleebensmack@uga.edu>

UHawaii Biodiversity

Title: Assistant or Associate Professor (Biological Systems, Hawaiian Biology and Native Culture) Position Number: 0083295 Hiring Unit: Pacific Biosciences Research Center (PBRC), School of Ocean and Earth Science and Technology (SOEST) Location: Manoa Date Posted: September 09, 2015 Closing Date: Continuous - application review begins November 01, 2015

Salary Information: Salary commensurate with qualifications and experience Monthly Type: 11 Month Tenure Track: Tenure Full Time/Part Time: Full Time Temporary/Permanent: Permanent Funding: General

Other Conditions: To begin approximately August 2016. Duties and Responsibilities 1. Summary: The University of Hawai'i (UH) has "a commitment to being a foremost indigenous-serving institution and to advancing sustainability" (University of Hawai'i Strategic Directions, 2015-2021). The directions embrace the work and input of Hawai'i Papa o Ke Ao (www.hawaii.edu/offices/op/hpokeao.pdf), a plan for the university to become a model institution serving indigenous peoples. 2. To this aim, a tenure-track faculty position has been established in PBRC through the efforts of the Kualii Council, an advisory group to the Chancellor of the University of Hawai'i (UH) at Manoa that represents some 15 schools, departments, and units serving Native Hawaiian students and initiatives. The successful applicant for this position is expected to develop research programs at UH Manoa focused on (i) the unique communities and biodiversity of the Hawaiian and other Pacific islands and (ii) the need to develop sustainable practices for the islands. A strong commitment to sustained interactions and collaborations with the Hawaiian community is essential. The successful applicant will: 3. -Engage in research in the biological sciences that complements existing expertise in PBRC, which includes comparative and evolutionary biology, ecology, environmental sciences, neurobiology, health sciences, and microbiology. 4. -Actively pursue creative and scholarly work, demonstrate academic resourcefulness including the ability to obtain extramural funding on a regular basis, lead dynamic mentoring and learning communities comprising Native Hawaiian and other indigenous students, and participate in service activities at the school, university and community levels. 5. -Enter into collaborative projects and creative endeavors that build bridges across disciplines, such as those with faculty in PBRC/SOEST, the John A. Burns School of Medicine, and other departments across the UH Manoa campus (i.e., Native Hawaiian cluster scholars, the Coastal Sustainability cluster, the Center for Microbial Oceanography: Research and Education). 6. -Teach or team-teach undergraduate and graduate courses emphasizing biological systems of Hawai'i. 7. -Collaborate with the UH Manoa Hawai'inuiakea (School of Hawaiian Knowledge) and other indigenous scholars on transdisciplinary projects related to mutual areas of interest in Hawaiian biological systems.

Assistant Professor Minimum Qualifications 1. -Ph.D. or equivalent doctorate degree from a college or university of recognized standing in the biological sciences.

Strong preference will be given to candidates who have successfully completed productive postdoctoral training. 2. -Evidence of scholarly achievement, including publication of predoctoral and postdoctoral research in quality journals in their field. 3. -Experience working among Native Hawaiian and/or indigenous organizations and/or communities. 4. -Ability to work and communicate effectively across disciplines. 5. -Demonstrated experience as a mentor.

Associate Professor Minimum Qualifications 1. -Same as stated above for Assistant Professor, plus a minimum of four (4) years of full-time college or university teaching/research at the rank of assistant professor, with evidence of increasing professional maturity and proven ability to secure extramural funding.

Desirable Qualifications 1. -Demonstrated understanding of Native Hawaiian traditional ecological knowledge and cultural practices, including Native Hawaiian sources and archives for research into anthropogenic impacts and land/ocean use management strategies, such as Ahupuaâ and the Kapu systems. 2. -Demonstrated experience working among Native Hawaiians and/or other indigenous groups in STEM-related activities. 3. -Experience leading or participating in local, national or international research, education or development activities. -----

To Apply: Please send a single .PDF document to pbr-cprof@hawaii.edu with the subject line "Assistant or Associate Professor, Biological Systems, Hawaiian Biology and Native Culture, Position: 0083295" with the

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UKentucky ResTech BehavioralEvolution

Clare Rittschof's new laboratory at the University of Kentucky (Department of Entomology) is searching for a full time research technician. The lab studies the ways in which social interactions modulate individual and group behaviors through changes in gene expression, physiology, and neural function, as well as the implications of these mechanisms for behavioral evolution (please see clarerittschof.blogspot.com). Current research projects

are focused on honey bees. This position offers the opportunity to participate in or manage an interesting variety of lab-based and field-based projects.

Primary responsibilities for the position include day-to-day lab management, assisting graduate students with research projects, maintaining lab equipment, ordering supplies, managing undergraduate students, and implementing and trouble-shooting molecular protocols (e.g., RNA extraction, qPCR, RNAseq library preparation, enzyme activity assays). Candidates will be expected to carry out research projects independently and as part of a team.

Salary will be commensurate with degree level and experience. Minimum qualifications include a bachelor's degree in biology or a related field, and at least some experience in molecular biology. Experience working with insects or honey bees is desirable but not essential.

This is a full time position with a minimum commitment of 1 year. The earliest anticipated start date is January 15, 2016. If you are interested in applying for this position, please contact Clare Rittschof (clare.rittshof@gmail.com).

– Clare Rittschof, Ph.D. Post-doctoral Associate

Department of Entomology Pennsylvania State University, State College, PA

Department of Entomology and Carl R. Woese Institute for Genomic Biology University of Illinois, Urbana-Champaign, IL

Website: clarerittschof.blogspot.com

Clare Rittschof <ccr13@psu.edu>

UMassachusetts Boston EvolutionaryBiology

Assistant Professor in Evolutionary Biology

Job Description:

The Biology Department at the University of Massachusetts, Boston seeks applicants for a full-time tenure track Assistant Professor in Evolutionary Biology starting September 1, 2016. This individual should be well versed in evolutionary and ecological theory, and special preference will be given to investigators conducting research in the area of global change evolution. Applications are particularly welcome from candidates who use creative molecular, experimental, comparative, pa-

leontological, or theoretical approaches to study the evolutionary responses of living organisms to global changes, but candidates working in any area of evolutionary biology are welcome to apply. The successful applicant is expected to establish an externally funded research program, direct the research of students at the undergraduate, masters and doctoral levels, and interact with a dynamic group of ecologists and environmental biologists. Excellence in teaching at the undergraduate and graduate levels is expected.

Requirements:

A Ph.D. and postdoctoral training (or equivalent professional experience) in evolution, ecology, or population genetics is required.

Additional Information:

UMass Boston has a strong faculty with substantial research programs in environmental areas, and doctoral programs in Environmental Biology; Molecular, Cellular and Organismal Biology; and Environmental Sciences. Excellent opportunities exist to collaborate and engage in multidisciplinary research in the new Integrated Science Complex on campus, across the five UMass campuses and at our Nantucket Field Station.

Application Instructions:

Application materials must be submitted online via the following link: <https://umb.interviewexchange.com/-jobofferdetails.jsp?JOBID=65133&CNTRNO=7&TSTMP=144528235220> Applications should include a cover letter addressed to the search committee, a current curriculum vitae, 3-5 representative publications, a statement describing research interests and goals, a teaching statement documenting teaching experience and philosophy, and contact information for three letters of recommendation.

For further information, visit the Biology Department website at www.umb.edu/academics/csm/biology or contact liam.revell@umb.edu or ron.etter@umb.edu, search committee co-chairs. Target date for receipt of applications is Dec. 1, 2015, but applications will be reviewed until the position is filled.

The University of Massachusetts Boston provides equal employment opportunities to all employees and applicants for employment without regard race, color, religion, gender, gender identity or expression, age, sexual orientation, national origin, ancestry, disability, military status, or genetic information. In addition to federal law requirements, the University of Massachusetts Boston complies with applicable state and local laws governing nondiscrimination in employment in every location in which the university operates. This policy applies to all

terms and conditions of employment.

– Liam J. Revell, Associate Professor of Biology University of Massachusetts Boston web: <http://faculty.umb.edu/liam.revell/> email: liam.revell@umb.edu blog: <http://blog.phytools.org> “Liam.Revell@umb.edu” <Liam.Revell@umb.edu>

UMinnesota Evolutionary Botany

Tenure Track Botanist Position: University of Minnesota

The College of Biological Sciences at the University of Minnesota announces a tenure-track botanist position at the assistant professor level in the Department of Plant Biology. We welcome applicants working in any area of botany with a focus on organismal biology and botanical diversity. We seek outstanding candidates who employ innovative comparative approaches to gain insight on the evolution, ecology, systematics, biogeography, genetics, physiology, development, or biochemistry of plants. Competitive applicants will have the skills required to establish successful research programs that integrate different approaches including but not limited to herbarium collections, field exploration, experimentation, phylogenetics, modeling, and/or computation.

Interested in joining the CBS faculty? Visit job posting for detailed information (https://www.myu.umn.edu/psp/psprd/EMPLOYEE/HRMS/c/HRS_HRAM.HRS_APP_SCH_JOB.GBL?Page=HRS_APP_JBPST&Action=U&FOCUS=Applicant&SiteId=1&JobOpeningId05373&PostingSeq=1). Review of applications by the search committee will begin on November 30, 2015.

The College of Biological Sciences at the University of Minnesota recently hired 18 scientists among six interdisciplinary clusters in emerging areas of biology that connect with other STEM disciplines. Find out what makes Minnesota a great place to work and live. Learn more about the College of Biological Sciences (<http://cbs.umn.edu>), the University of Minnesota (<http://umn.edu>) and the Twin Cities (<http://umn.edu/wishyouwerehere>). Questions about the application process may be directed to Michael Ouverson (ouver005@umn.edu). Questions about positions may be directed to the chair of the search committee, George Weiblen (gweiblen@umn.edu).

The University of Minnesota provides equal access to and opportunity in its programs, facilities, and employment

without regard to race, color, creed, religion, national origin, gender, age, marital status, disability, public assistance status, veteran status, sexual orientation, gender identity, or gender expression. The University supports the work-life balance of its faculty and especially encourages applications from women and members of under-represented groups.

Michael Ouverson <ouver005@umn.edu>

UMississippi ChairBiology

Chair, Department of Biology The University of Mississippi

The University of Mississippi invites applications for the full-time, 12-month administrative faculty position as Chair of the Department of Biology in the College of Liberal Arts. The University of Mississippi is in an exciting phase of institutional growth and is located in the city of Oxford, a vibrant community known for its small-town southern charm and outstanding educational and cultural opportunities. The Department of Biology consists of a dynamic mix of tenured/tenure-track and instructional faculty (36), postdoctoral researchers, and graduate students, and hosts one of the largest cohorts of undergraduate majors and course enrollments per year at the university (930 and 11,500 students, respectively). It is home to a diverse yet integrated community of scientist-educators whose research interests span the scale of genes and microbes to ecosystems (for more information visit biology.olemiss.edu). Candidates for the position of Chair must have a Ph.D. degree or equivalent in any area of the biological sciences, a strong record of successful undergraduate and graduate teaching, professional accomplishments commensurate with tenure at the rank of Professor, and be eligible to work in the United States. Candidates should have a history of exemplary research scholarship and funding, a demonstrated record of financial and personnel management, and strong interpersonal and leadership skills. The successful candidate will be expected to convey a clear vision for the Department based on the University Strategic Plan (um2020.olemiss.edu), be committed to the professional development of faculty and staff, foster collaborations with appropriate campus constituencies, and be passionate about advancing the well-being of the Department.

To apply, visit our Online Employment Service at jobs.olemiss.edu. Applications should include: a com-

plete curriculum vitae, a statement of administrative philosophy, a statement of vision for the Department, and a list of at least five references. Review of applications will begin 30 November 2015, and continue until the position is filled or an adequate applicant pool is established. The anticipated starting date is June 2016, but is flexible. Questions about the position may be addressed to Dr. Charles L. Hussey, Chair, Department of Chemistry and Biochemistry, who serves as the search chair (chclh@chem1.olemiss.edu, 662-915-7301). Committed to being one of America's great public universities, the University of Mississippi welcomes applications from women and members of other underrepresented groups, and is an EOE/AA/Minorities/Females/Vet/Disability/Title IV/Title IX/504/ADA/ADEA Employer.

Ryan Garrick Department of Biology 508 Shoemaker Hall University of Mississippi University, MS 38677-1848, USA

webpage: <http://www.rcgarrick.org> "rgarrick@olemiss.edu" <rgarrick@olemiss.edu>

UMississippi DiseaseEvolution

The Biology of Disease

The Department of Biology at The University of Mississippi invites applications for a tenure-track Assistant Professor position in disease biology. Areas of research interest could include, but are not limited to, 1. evolution and ecology of infectious disease, 2. molecular/genetic mechanisms of disease or 3. developmental biology of disease. Applicants must have a Ph.D. in a relevant field and a strong publication record. The successful candidate will be expected to establish an active, externally funded research program and to teach courses in their area of expertise. Candidates whose work is field or laboratory based, spans multiple disciplines, merges experimental and theoretical approaches, and/or complements or expands the department's strengths, are strongly encouraged to apply.

The Department of Biology consists of 36 faculty members and 48 M.S. and Ph.D. graduate students and has one of the largest undergraduate majors (930 students) at the University. Our research interests span levels of biological organization from the gene to the ecosystem, and include plants, animals, protists, fungi, and bacteria as subjects of study. Additional information about the department is available online at biology.olemiss.edu.

The University of Mississippi, recognized by the Chronicle of Education as a 2015 great college to work for, is located in Oxford, Mississippi, a vibrant community known for its small-town Southern charm and outstanding educational and cultural opportunities.

To apply, visit our Online Employment Service at jobs.olemiss.edu. Applications should include: (1) cover letter outlining your interest and suitability for the position, (2) curriculum vitae, (3) 1-2 page statement of research interests, (4) 1-2 page statement of teaching experience and interests, including a list of potential graduate and undergraduate courses, and (5) names and contact information for three references. Review of applications will begin November 15, and continue until the position is filled or an adequate applicant pool is established. The anticipated starting date is August 16, 2016. Questions about the position may be addressed to Search Committee Chair, Biology of Disease, (bygrp@olemiss.edu), (662-915-7479). Committed to being one of America's great public universities, The University of Mississippi is an EOE/AA/Minorities/Females/Vet/Disability/Sexual Orientation/Gender Identity/Title VI/Title VII/Title IX/504/ADA/ADEA employer.

Ryan Garrick Department of Biology 508 Shoemaker Hall University of Mississippi University, MS 38677-1848, USA

webpage: <http://www.rcgarrick.org> <
<http://www.rcgarrick.org/> >

"rgarrick@olemiss.edu" <rgarrick@olemiss.edu>

UMontana AquaticMicrobialEcology

While this position emphasizes ecological structure and dynamics of microorganisms, individuals with evolutionary perspectives that inform ecological processes are invited to apply.

POSITION ANNOUNCEMENT

Assistant or Associate Professor in Aquatic Microbial Ecology Flathead Lake Biological Station, University of Montana

The Flathead Lake Biological Station (FLBS) of The University of Montana invites applications for a tenure-track position at the Assistant or Associate Professor level in the area of aquatic microbial ecology. We seek a qualified and collaborative microbial ecologist using ad-

vanced approaches, including environmental genomics, to address modern questions of microbial structure, function, and interactions in inland waters. We have a special interest in individuals capable of developing research and training programs focused on microbial dynamics in Flathead Lake, its catchment, and its surrounding ecoregion, building on the existing long-term record of ecological dynamics in Flathead Lake. This is a resident position at FLBS with annual teaching duties in the FLBS summer academic program and associated campus programs as well as service obligations to the station, relevant academic unit(s), and university. An individual hired at the former level will be expected to demonstrate strong potential for external research funding; an individual hired at the latter level is expected to have already demonstrated strong funding success.

The successful applicant will be able to leverage individual research efforts via ongoing limnological research that is built on FLBS' permanent endowment, its biennial legislative funding, and various research grants. In addition to proactive, professional collaboration with other resident faculty, the position provides the opportunity to work routinely with outstanding field and laboratory staff, including those in FLBS' recently upgraded facilities for analytical chemistry, genomics, microscopic analyses, and GIS. The successful applicant will make creative contributions to FLBS and university teaching missions and will also be able to successfully mentor graduate and postgraduate scholars. We also seek an individual who can effectively communicate research via the Station's active public engagement programs. We emphasize strong, cooperative interactions among FLBS faculty members and affiliates but with considerable latitude for individual professional development. Join us!

About the Flathead Lake Biological Station (<http://-flbs.umt.edu/>): Established in 1899 on the eastern shore of one of North America's largest lakes, FLBS is a world-class ecological research and education facility adjacent to Glacier National Park in the heart of the Crown of the Continent ecoregion. In 2016 the station will be under the leadership of incoming Director James Elser with a mission to conduct basic and applied ecological research with emphasis on fresh water; provide field ecology courses; and supply scientific data, interpretation and outreach to help resolve environmental problems and inform public policy locally, regionally, nationally and internationally. The FLBS strives to advance understanding of complex linkages among atmospheric, terrestrial, aquatic, and human components of watershed ecosystems in a natural-cultural context. This requires a "genes to ecosystems" approach and, therefore, the scientific team at FLBS is strongly in-

terdisciplinary. Research foci at FLBS include remote sensing of climate-mediated landscape change; plankton ecology; water quality and supply in changing landscapes; ecological stoichiometry; limnology of Flathead and other large river-lake systems; systems ecology and modeling of large river ecosystems; nutrient limitation and biogeochemistry; evolutionary biology of animal, plant, and microbial populations; ecological impacts of invasive species; and integration of social and ecological processes in a systems framework to help solve environmental problems. Major FLBS facilities are recently remodeled and fully equipped for on-site research and education and a newly reconditioned 10-m research vessel, the Jessie B, is available.

Application review will begin on December 1, 2015 and continue until the position is filled. To apply, upload a letter of interest, curriculum vitae and the names and contact information for three professional references at <http://umjobs.silkroad.com/> (tracking code 1386-254). For more information regarding the position, contact the Chair of the Search Committee, Dr. Scott R. Miller (scott.miller@umontana.edu).

Employment is contingent upon successful completion of a background check and verification of eligibility to work in the U.S. The University of Montana is an ADA/EOE/AA/Veterans Employer and encourages applications from minorities, veterans, women and individuals with disabilities.

UMontana HostSymbiontInteractions

Assistant Professor of Biological Sciences

The Division of Biological Sciences at the University of Montana in Missoula invites applications for a 9-month tenure-track position at the level of Assistant Professor in the area of host-microbe interactions, beginning August 2016. Successful applicants will develop an extramurally-funded research program using genetic, cell biological, evolutionary or ecological experimental approaches, but applicants whose research program also complements or expands our existing strengths in the biochemistry and/or genomics of host-microbe interactions will be given priority. The successful applicant will contribute to the teaching of microbiology, both in a lower-division general course and in an upper-division course in their area of expertise.

To apply, and for a full description of the job require-

ments, please see:

<http://bit.ly/1385DBS16> Please feel free to direct questions about the position to John McCutcheon (john.mccutcheon@umontana.edu)

UNebraska ClimateChangeAdaptation

The School of Biological Sciences continues to expand its faculty and invites applications for a tenure-track, assistant professor position in Climate Change Biology.

For this position we seek an individual who studies the effects of climate change in an ecological or evolutionary context. He or she will become a member of the Ecology, Evolutionary Biology, and Behavior Section of the School of Biological Sciences. Applicants with expertise in all areas of climate change biology are welcome, with preference for research involving a focus on plant systems, stress physiology, phenotypic plasticity, ecosystems, biodiversity conservation, or adaptive responses to climate change. It is expected that the successful candidate will establish a nationally recognized and extramurally funded research program and contribute to the undergraduate and graduate teaching missions of the School of Biological Sciences. A PhD or equivalent and research experience in ecology, evolution, or a related field are required. A minimum of one year of postdoctoral research experience is preferred.

This position is part of a coordinated hiring strategy within the College of Arts and Sciences to form an interdisciplinary core focused on climate change research at UNL, including five new assistant professor positions in the School of Biological Sciences, the Department of Earth and Atmospheric Sciences, the Department of Political Science, and the School of Natural Resources. It is expected that the successful candidate will establish a nationally recognized and extramurally funded research program and contribute to the undergraduate and graduate teaching missions of the School of Biological Sciences. The successful candidate will receive a highly competitive start-up package. Lincoln Nebraska boasts an outstanding quality of life that includes a vibrant downtown with lively music and art scenes, a collection of over 120 parks and 130 miles of bike trails, plus a low cost of living.

To learn more about the University of Nebraska and the School of Biological Sciences, visit <http://biosci.unl.edu>.

Applicants should go to <http://employment.unl.edu>, search for requisition number F_150229, complete the Faculty Academic/Administrative Information form, attach a letter of application, Curriculum Vitae, a statement of research interests, a statement of teaching interests, and a list of three references. Questions regarding the application process may be sent to biology-search@unl.edu. Review of applications will begin on December 1, 2015, and continue until the position is filled or the search is closed. The University of Nebraska is committed to a pluralistic campus community through affirmative action, equal opportunity, work-life balance, and dual careers. See <http://www.unl.edu/equity/notice-nondiscrimination> Daizaburo Shizuka Assistant Professor School of Biological Sciences University of Nebraska-Lincoln www.shizukalab.com daishizuka@gmail.com

UNebraska Director SchoolBiologicalSciences

Director, School of Biological Sciences, University of Nebraska-Lincoln.

We are seeking an extraordinary individual to serve as Director of the School of Biological Sciences at the University of Nebraska-Lincoln (UNL), a public land grant research university and member of the Big 10/Committee on Institutional Cooperation, with a total enrollment of over 25,000 students. The School of Biological Sciences (SBS) is part of the College of Arts and Sciences, and plays a central role in undergraduate and graduate education and research at UNL. SBS faculty attract \$12 million annually in competitive extramural research support, primarily from NIH and NSF. SBS has over 500 undergraduate majors and nearly 80 graduate students. Our 44 faculty members pursue research across the full spectrum of biology from molecules to ecosystems, and theory to empiricism. Research by SBS faculty members is highly collaborative, and benefits from strong linkages with other campus units.

We seek a Director who will promote integration and collaboration across levels of biological organization - from genes, cells, and physiology through organisms to populations, communities, and ecosystems - and between biology and other STEM and non-STEM disciplines. The Director will provide strategic leadership and vision to promote SBS excellence in research, education, and outreach; will effectively manage the School's resources; will be instrumental in fund raising and alumni relations;

and will play a key role in developing strong relationships between SBS and other units across the campus and the university system.

UNL is committed to achieving academic excellence and continued growth and development within the Life Sciences. The successful candidate will be a dynamic individual with outstanding scientific credentials, a commitment to quality education, and the desire, ability, and vision to lead the School. Candidates for this position must have a PhD; an outstanding record, including accomplishments as a scientist, educator, and in service to their institution; an understanding of the strengths and opportunities offered by a School encompassing the breadth of biology; and demonstrated commitment to excellence. Candidates must qualify for the rank of Professor with tenure. Candidates with research interests in any recognized biological discipline will be considered. The successful candidate will receive a competitive salary and start-up package.

Additional qualifications include: proven success in academic leadership in the context of shared governance and transparent decision-making; excellent communication skills; an understanding of opportunities and challenges in the current funding climate; an interest in working with the university foundation, donors, and alumni to support fund raising; an appreciation of the SBS teaching mission and an awareness of the importance of innovation in instruction; a commitment to diversity; and experience managing financial and human resources.

Information about the department can be found at <http://www.biosci.unl.edu>. For consideration, applicants must complete the on-line Faculty/Administrative form and submit application materials at <http://employment.unl.edu>, requisition F_150108. Application materials should include a cover letter, a curriculum vitae with a full list of publications, a summary of past, current, and pending research support, the names of three references, and brief statements of research, educational, service, and administrative interests. Inquiries regarding the position or the application process should be directed to: BioSciDirectorSearch@unl.edu, or SBS Search Committee Chair, College of Arts and Sciences, University of Nebraska-Lincoln, 1223 Oldfather Hall, Lincoln, NE 68588-0312 (Fax: 402-472-1123).

Review of applications will begin November 16, 2015 and continue until the position is filled.

The University of Nebraska is committed to a pluralistic campus community through affirmative action, equal opportunity, work-life balance, and dual careers.

"kmontooth2@unl.edu" <kmontooth2@unl.edu>

UNebraska EEB ClimateChangeBiology

ASSISTANT PROFESSOR POSITION - CLIMATE CHANGE BIOLOGY UNIVERSITY OF NEBRASKA-LINCOLN (UNL) SCHOOL OF BIOLOGICAL SCIENCES

The School of Biological Sciences continues to expand its faculty and invites applications for a tenure-track, assistant professor position in Climate Change Biology.

For this position we seek an individual who studies the effects of climate change in an ecological or evolutionary context. He or she will become a member of the Ecology, Evolutionary Biology, and Behavior Section of the School of Biological Sciences. Applicants with expertise in all areas of climate change biology are welcome, with preference for research involving a focus on plant systems, stress physiology, phenotypic plasticity, ecosystems, biodiversity conservation, or adaptive responses to climate change. It is expected that the successful candidate will establish a nationally recognized and extramurally funded research program and contribute to the undergraduate and graduate teaching missions of the School of Biological Sciences. A PhD or equivalent and research experience in ecology, evolution, or a related field are required. A minimum of one year of postdoctoral research experience is preferred.

This position is part of a coordinated hiring strategy within the College of Arts and Sciences to form an interdisciplinary core focused on climate change research at UNL, including five new assistant professor positions in the School of Biological Sciences, the Department of Earth and Atmospheric Sciences, the Department of Political Science, and the School of Natural Resources. It is expected that the successful candidate will establish a nationally recognized and extramurally funded research program and contribute to the undergraduate and graduate teaching missions of the School of Biological Sciences. The successful candidate will receive a highly competitive start-up package. Lincoln Nebraska boasts an outstanding quality of life that includes a vibrant downtown with lively music and art scenes, a collection of over 120 parks and 130 miles of bike trails, plus a low cost of living.

To learn more about the University of Nebraska and the School of Biological Sciences, visit <http://biosci.unl.edu>.

Applicants should go to <http://employment.unl.edu>, search for requisition number F_150229, complete the Faculty Academic/Administrative Information form, attach a letter of application, Curriculum Vitae, a statement of research interests, a statement of teaching interests, and a list of three references. Questions regarding the application process may be sent to biologysearch@unl.edu. Review of applications will begin on December 1, 2015, and continue until the position is filled or the search is closed. The University of Nebraska is committed to a pluralistic campus community through affirmative action, equal opportunity, work-life balance, and dual careers. See <http://www.unl.edu/equity/notice-nondiscrimination> “kmontooth2@unl.edu” <kmontooth2@unl.edu>

UnitedArabEmiratesU ResAssist Adaptation

United Arab Emirates University

Vacancy Research Assistant

Modelling the Ecological Impacts of Climate Change in Hot Regions

The United Arab Emirates University, in association with the University of Hong Kong, is looking to expand its research into the ecological impacts of climate change on wildlife populations. We are seeking to recruit a Research Assistant who will join a growing team of postgraduate students and researchers active in this area. The successful candidate will help to implement the work of a research grant, conducting statistical analysis of wildlife data, as well as mathematical population modelling, and the synthesis of comparative data. Applicants should have a relevant degree, and preferably a higher degree in a relevant discipline. The United Arab Emirates University operates in English, and language fluency is a requirement. Further details of the position are posted at: <https://jobs.uaeu.ac.ae/> and applications should be submitted through that online system. Review of applications will begin right away, continuing until the position is filled.

The United Arab Emirates is a dynamic, progressive, and culturally diverse country which enjoys one of the highest standards of living in the world. The workforce is highly internationalized and ex-patriates now make up around 90% of the population. The UAEU is a young and ambitious university, developed largely on the US

model. It has established itself as one of the best in the region and is already ranked alongside the top 2% of America's universities.

Dr. David L. Thomson

Associate Professor Biology Department - College of Science UAE University P.O. Box 15551 Al Ain United Arab Emirates

and

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UNorthCarolina Charlotte ChairBiologicalSciences

Chair, Department of Biological Sciences - The University of North Carolina at Charlotte

The University of North Carolina at Charlotte, ranked by 'US News & World Report' in the top ten 'Up and Coming Schools' among National Universities, invites applications and nominations for the Chair of the Department of Biological Sciences. The chair is expected to play a significant role in facilitating the Department's contribution to the University goal of becoming a leading urban research university, while maintaining the primary commitment of providing educational opportunities for qualified students of diverse backgrounds through informed and effective teaching. Housed in the College of Liberal Arts & Sciences (<http://clas.uncc.edu>), the Department of Biological Sciences (<http://biology.uncc.edu/>) plays a leading role in fulfilling the College's commitment to providing a broad and integrative liberal arts education.

***Qualifications:** * This tenured position is open to applicants with credentials and experience appropriate for appointment as a full professor. Candidates must possess: 1) a doctoral degree in the biological sciences; 2) a distinguished record of teaching, scholarly achieve-

ment, and externally funded research; 3) evidence of national recognition; 4) the ability to provide academic leadership in a growing and diverse department within a dynamic urban, public university. Previous administrative experience is highly desirable.

***Responsibilities:** * The selected candidate will: 1) work with faculty and students from multiple disciplines as well as with a talented support staff ; 2) attract and retain top-tier faculty and promote professional development; 3) guide existing degree programs at both the undergraduate and graduate levels; 4) work with other university units to advance the Department's and University's commitment to research in the biological sciences, teaching excellence, and community-based scholarship and outreach; and (5) support and promote diversity among students and colleagues.

***The Department:** *The Department has 32 full-time and 11 part-time/research faculty members from a variety of disciplinary backgrounds, 7 staff members, and a student population of over 1000 undergraduates and over 40 Master's students, and Ph.D. students. Our mission is to create, extend and disseminate fundamental and applied knowledge of the biological sciences through scholarly research, teaching, and service. To this end, the Department continues to foster strong collaborative interactions across campus, with such units as Bioinformatics and Genomics, Nanoscale Science, Infrastructure and Environmental Systems, and other Engineering PhD programs. In addition, our faculty and students have numerous scientific collaborations with external entities, most notably, the Carolinas Medical Center, the Duke University Comprehensive Cancer Center, and several marine laboratories at UNC Chapel Hill, NC State University, and UNC Wilmington. The Department and College are strongly committed to interdisciplinary research and teaching, supporting a range of interdisciplinary programs from minors to doctoral programs.

***The University:** *The University of North Carolina at Charlotte is a doctoral, research intensive university located in one of the country's fastest growing metropolitan areas on an expanding, modern campus. One of sixteen campuses in one of the oldest public university systems in the United States, UNC Charlotte offers over 28,000 culturally diverse students a wide range of undergraduate and graduate degree programs. During the past six years, 46% of the total growth in the UNC system is attributed to UNC Charlotte. The College of Liberal Arts and Sciences is the largest college in the university and houses twenty departments in the humanities, social and behavioral sciences, physical sciences, and military sciences, as well as eight research centers and institutes and thirteen interdisciplinary programs.

*The Charlotte Region: *Charlotte is the 19th largest city in the U.S., and one of the nation's fastest growing metropolitan areas. Charlotte is the second largest banking/financial center in the nation, has two large health care systems, and is located near the *North Carolina Research Campus (<http://www.ncresearchcampus.net/> < <http://www.ncresearchcampus.net/> >), *a \$1 billion biotech hub in Kannapolis, NC in partnership with the UNC system of research universities and Duke University (<http://www.ncresearchcampus.net/>). The community enjoys a multicultural population, an enviable array of artistic and cultural offerings, a wealth of public health and healthcare resources, a world class airport, thriving professional sports franchises, and the beauty of the nearby Blue Ridge Mountains.

*Applications and Nominations *

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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>

UNorthCarolina Greensboro EvoDevo

Assistant Professor of Biology:

The Department of Biology at The University of North Carolina at Greensboro (UNCG) invites applications for a tenure-track Assistant Professor position in Biology. We seek an outstanding individual with research interests in Developmental Biology. This search is part of an initiative to expand our new doctoral program in Environmental Health Science. Our broadly based doctoral program addresses environmental concerns that directly or indirectly affect human health and well-being from the global to the molecular levels. We seek individuals whose biological research addresses environmental impacts upon development, with use of any model organism including microbes, invertebrates, vertebrates, or plants. Successful applicants will be expected to develop a strong, externally funded research program, train a diverse group of undergraduate and graduate students from various backgrounds, make significant contributions to our Ph.D. program, teach courses related to their specialty, and contribute to teaching in the general biology undergraduate curriculum. Synergies with faculty in related disciplines are encouraged. Candidates must hold or anticipate a Ph.D. in Biology or a

related discipline by August 1, 2016, and postdoctoral experience is preferred. Inquiries should be directed to Dr. Amy Adamson (aladamso@uncg.edu), Search Committee Chair. The evaluation of applications will begin December 1, 2015, and will continue until the position is filled. The position starts in August 2016. UNCG is especially proud of the diversity of its student body which is 43% ethnic minority (<http://admissions.uncg.edu/-discover-about.php>). UNCG has been designated as a Minority Serving Institution for 2015 by the US Dept. of Education. Therefore, we seek to attract an equally diverse applicant pool for this position, including women and members of minority groups. UNCG is an EEO/AA employer with a strong commitment to increasing faculty diversity. EOE AA/M/F/D/V. For information about our Ph.D. program, see http://biology.uncg.edu/-gradprograms/PhD_Environ_Health_Sci.html. To apply, visit <https://jobsearch.uncg.edu> and click on 'Faculty' (position 999417).

orupepell@gmail.com

UPennsylvania Computational Biol

Assistant/Associate Professor of Genetics in the Institute for Biomedical Informatics

The Department of Genetics at the Perelman School of Medicine at the University of Pennsylvania seeks candidates for several Associate or Assistant Professor positions in the tenure track. Rank will be commensurate with experience. The successful applicant will have experience in the field of computational biology and biomedical informatics as applied to human genetics and genomics. Responsibilities include developing and carrying out an independent research program and participating in graduate and medical school education. Applicants must have an Ph.D. and/or M.D. degree and have demonstrated excellent qualifications in research and education.

The Department of Genetics and the Institute for Biomedical Informatics comprise faculty with diverse investigative interests and close affiliations with the neighboring Children's Hospital of Philadelphia.

Attractive laboratory space and resources are available. For more information about the department and institute, visit <http://www.med.upenn.edu/genetics> and <http://upibi.org/>.

To ensure full consideration, applicants are strongly en-

couraged to apply by November 30, 2015. Please submit a cover letter, curriculum vitae, and a 2-3-page statement of research interests, as well as the names of 3 references.

We seek candidates who embrace and reflect diversity in the broadest sense.

The University of Pennsylvania is an EOE. Minorities/Women/Individuals with disabilities/Protected Veterans are encouraged to apply.

Apply for this position online at: https://www.med.upenn.edu/apps/faculty_ad/index.php/-g/d4095

Sarah Tishkoff, Ph.D. David and Lyn Silfen University Professor Departments of Genetics and Biology University of Pennsylvania Tel: 215-746-2670 tishkoff@mail.med.upenn.edu <http://www.med.upenn.edu/tishkoff/>

“tishkoff@mail.med.upenn.edu”
<tishkoff@mail.med.upenn.edu>

UPennsylvania HumanEvolGenetics

The Department of Genetics at the Perelman School of Medicine at the University of Pennsylvania seeks candidates for several Associate or Assistant Professor positions in the tenure track. Rank will be commensurate with experience. The successful applicant will have experience in the field of human genetics, model systems genetics, and/or regulation of eukaryotic gene expression. Responsibilities include developing and carrying out an independent research program and participating in graduate and medical school education. Applicants must have an Ph.D. and/or M.D. degree and have demonstrated excellent qualifications in education and research.

The Department of Genetics comprises a basic science faculty with diverse investigative interests and close affiliations with the neighboring Children’s Hospital of Philadelphia and the Wistar Institute.

Attractive laboratory space and resources are available. For more information about the department, visit <http://www.med.upenn.edu/genetics> . To ensure full consideration, applicants are strongly encouraged to apply by November 30, 2015. Please submit a cover letter, curriculum vitae, and a 2-3-page statement of research interests, as well as the names of 3 references.

We seek candidates who embrace and reflect diversity in the broadest sense.

The University of Pennsylvania is an EOE. Minorities/Women/Individuals with disabilities/Protected Veterans are encouraged to apply.

Apply for this position online at: https://www.med.upenn.edu/apps/faculty_ad/index.php/-g/d4096

Sarah Tishkoff, Ph.D. David and Lyn Silfen University Professor Departments of Genetics and Biology University of Pennsylvania Tel: 215-746-2670 tishkoff@mail.med.upenn.edu <http://www.med.upenn.edu/tishkoff/>

Sarah Tishkoff <tishkoff@mail.med.upenn.edu>

UPittsburgh EvolutionaryBiology

Dear colleagues,

The Department of Biological Sciences at the University of Pittsburgh invites applications for one tenure-track faculty position in the broad area of ecology and sustainability (THIS IS IN ADDITION TO OUR 3 ANTICIPATED FACULTY HIRES IN ECOLOGY AND EVOLUTION). The position is anticipated at the ASSISTANT PROFESSOR level, pending budgetary approval. We seek outstanding scientists who will enhance and complement existing strengths in our broad-based interactive biology department. We invite applications from all candidates working on cutting edge questions incorporating the topics of ecology and sustainability. Candidates working in the following areas are especially encouraged to apply:

- Species (plant, animal, microbe) interactions - Microbial ecology or ecology/evolution of the microbiome - Population, functional or evolutionary genomics - Physiological, biophysical or functional ecology

Successful candidates will have a Ph.D. and postdoctoral experience and will be expected to establish an extramurally funded research program, train graduate students, and actively participate in undergraduate science education. To ensure full consideration, applications and reference letters should be received by November 6, 2015. Applicants can apply online at: <https://facultysearch.as.pitt.edu/apply/index/MTM1> . Candidates should submit a letter of application, CV, a 2-3-page statement of research accomplishments and

future plans, a brief description of teaching interests and at least three letters of reference. For each reference, you will have the opportunity to input a personal email address or an email address generated through Interfolio's Online Application Delivery. In both cases, an email notification will be sent to the designated address with instructions about uploading the letters to our system. The University of Pittsburgh is an Affirmative Action, Equal Opportunity Employer. Women, members of minority groups under-represented in academia, veterans, and disabled are especially encouraged to apply. Further information about the Department of Biological Sciences is available at: <http://www.biology.pitt.edu>. Sincerely,

Nathan Morehouse

Assistant Professor Department of Biological Sciences University of Pittsburgh 165 Crawford Hall Fifth and Ruskin Avenues Pittsburgh, PA 15260 Office: (412) 624-3378 Lab: (412) 624-3351 <http://morehouselab.pitt.edu/> "Il y a un autre monde mais il est dans celui-ci." - Paul Éluard

"Morehouse, Nathan I" <nim@pitt.edu>

URhodeIsland Tech ProtistDiversity

I am hiring a "Research Associate I" (lab technician) to work on our recently funded NSF GoLife project to work on diversity within the Stramenopile, Alveolate, Rhizaria (SAR) clade. The details for the project can be found at http://www.nsf.gov/awardsearch/showAward?AWD_ID=3D1541510&HistoricalAwards=False I am looking for someone with a MS degree in a relevant field or 5 years experience in the field to assist with maintaining cultures, performing routine molecular phylogenetic lab work and to help maintain a database for sequence data. The posting for this job can be found at <https://jobs.uri.edu/postings/770> and it will be open until October 16th.

-Chris

Chris Lane Associate Professor Department of Biological Sciences University of Rhode Island 120 Flagg Road Kingston, RI., 02881 Office: CBLS 277 ph (401) 874-2683 fax (401) 874-2065 <http://cels.uri.edu/biolanelab/> Chris Lane <clane@mail.uri.edu>

USouthAlabama EvoDevo

ASSISTANT PROFESSOR (TENURE-TRACK) POSITION IN DEVELOPMENTAL BIOLOGY (INCLUDING EVO-DEVO) AT THE UNIVERSITY OF SOUTH ALABAMA

Below you can find the official advertisement for the Assistant Professor position in Developmental Biology offered in the Biology Dept at the University of South Alabama. The position is open to researchers working on any organism and on any field of Developmental Biology, including Evo-Devo. For questions regarding this job, please contact the search committee chair, Dr. Major (kmajor@southalabama.edu)

The University of South Alabama Biology Department seeks applications for a tenure-track Assistant Professor with expertise in *Developmental Biology* to begin on *August 15, 2016*. The department offers B.S. and M.S. degree programs. Individuals are expected to develop an externally funded research program involving both undergraduate and graduate students. Candidates will also be expected to teach existing courses in Developmental Biology and develop new curricula in their specialty that target undergraduate and graduate students. The ability to teach one of our core courses in Cell Biology, Genetics, or Ecology and Evolution is an advantage. Candidates must demonstrate proficiency in English and have a Ph.D. Postdoctoral experience is preferred. See <http://www.usouthal.edu/biology/facultysearch.html> for more information.

Send cover letter, vita, statement of teaching philosophy, statement of research goals, transcripts, and three original letters of recommendation to Dr. Kelly Major, Chair, Developmental Biology

Search, Biology Dept., Univ. of South Alabama, LSCB 124, 5871 USA Drive N., Mobile, AL 36688/. (Official transcripts will be required before on-campus interviews).

Applications must be postmarked by or on *November 16, 2015*.

*The University of South Alabama is an Equal Opportunity Employer Minorities/Females/Veterans/Disabled.

Dr. Ylenia Chiari Assistant Professor

Department of Biology University of South Alabama LSCB 121 5871 USA Dr. N. Mobile, AL 36688 USA

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Lab Webpage <http://www.yleniachiari.it> Like us on Facebook <https://www.facebook.com/ChiariLab> “yle@yleniachiari.it” <yle@yleniachiari.it>

Lynn B. Martin Associate Professor Department of Integrative Biology University of South Florida 4202 East Fowler Avenue, SCA 110 Tampa, FL 33620 813-974-0157 lbgmartin@usf.edu

“Martin, Lynn” <lbgmartin@usf.edu>

USouthFlorida DiseaseEvolution

Disease Biologist

The Department of Integrative Biology at the University of South Florida (USF), Tampa (<http://biology.usf.edu/-ib>), seeks to fill a 9-month tenure-earning Assistant or Associate Professor position in Disease Biology. Candidates must establish a strong, externally-funded research program and contribute to the department curriculum at the undergraduate and graduate levels. A Ph.D. in a relevant field and appropriate post-doctoral training are required. Diverse environments for fieldwork are nearby, and vivariums and ABSL-2/3 facilities are accessible on campus. Collaborative opportunities are also available with the USF Departments of Global and Public Health, the USF College of Medicine, Moffitt Cancer Center, the Florida Department of Health, and many others; many USF groups also maintain core facilities with modern, well-serviced equipment, accessible to faculty.

Salary and start-up package are negotiable. To apply, please visit <http://employment.usf.edu>. Submit a cover letter, a CV, a 2-page statement outlining current and future research plans, a 1-page statement of teaching philosophy and proposed courses, up to 3 publications, and 3 letters of reference. In your cover letter, provide a bulleted or numbered list of the following information: date of your PhD, years of postdoctoral experience, number of peer-reviewed publications, and number of extra-mural grants and fellowships. The position is open until filled, but review of applications will commence on November 16, 2015. Conclusion of this search is subject to final budget approval.

USF is a high-impact, global research level 1 university dedicated to student success. For information regarding the USF System, please visit our website at <http://system.usf.edu>. According to Florida Law, applications and meetings regarding them are open to the public. USF is an Equal Opportunity/Equal Access Institution. For disability accommodations contact Mary Parrish at 813-974-6210 a minimum of five working days in advance.

UTennessee Knoxville ComputationalBiol

The Department of Biochemistry and Cellular and Molecular Biology (BCMB) and the National Institute for Mathematical and Biological Synthesis (NIMBioS) at the University of Tennessee, Knoxville invite applications for a tenure-track faculty position at the rank of Assistant Professor in the area of computational biology or mathematical biology, with a primary appointment in BCMB. We seek applicants whose research will center on the predictive modeling of cellular, subcellular, or developmental systems or networks. The successful candidate should address questions that complement existing strengths in the BCMB department (<http://bcmb.utk.edu/>), and the cross-disciplinary approaches supported by NIMBioS (<http://www.nimbios.org>). There also exist opportunities to interact with groups and facilities in the nearby Oak Ridge National Laboratory (ORNL).

A PhD in a relevant field and postdoctoral research experience are required. The successful candidate is expected to establish an innovative, externally funded research program and contribute to the departmental teaching mission at the undergraduate and graduate levels. The Knoxville campus of the University of Tennessee is seeking candidates who have the ability to contribute in meaningful ways to the diversity and intercultural goals of the University. The position will start as early as August 1, 2016, and the salary will be competitive. Applications should include a brief cover letter, CV with list of publications, a 2-3 page outline of research interests, and a separate 1 page description of teaching interests. Please email the application as a single pdf file to bcmbcompbio@utk.edu, and arrange for three letters of recommendation to be sent directly to the same email address. Letters should be addressed to Dr. Jerome Baudry, Search Committee Chair, and informal inquiries may be sent to him at jbaudry@utk.edu. Review of applications will begin November 1st, 2015 and will continue until the position is filled.

For more information, visit <http://www.nimbios.org/>

positions/ All qualified applicants will receive equal consideration for employment and admissions without regard to race, color, national origin, religion, sex, pregnancy, marital status, sexual orientation, gender identity, age, physical or mental disability, or covered veteran status. Eligibility and other terms and conditions of employment benefits at The University of Tennessee are governed by laws and regulations of the State of Tennessee, and this non-discrimination statement is intended to be consistent with those laws and regulations. In accordance with the requirements of Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Act of 1990, The University of Tennessee affirmatively states that it does not discriminate on the basis of race, sex, or disability in its education programs and activities, and this policy extends to employment by the University. Inquiries and charges of violation of Title VI (race, color, and national origin), Title IX (sex), Section 504 (disability), ADA (disability), Age Discrimination in Employment Act (age), sexual orientation, or veteran status should be directed to the Office of Equity and Diversity (OED), 1840 Melrose Avenue, Knoxville, TN 37996-3560, telephone (865) 974-2498. Requests for accommodation of a disability should be directed to the ADA Coordinator at the Office of Equity and Diversity.

“Michael A. Gilchrist” <mikeg@utk.edu>

UTexas Arlington EvolBiol

REMINDER: We posted this ad a while back and got a great response. We are reviewing applications and will soon be arranging interviews. If you haven't applied yet, do so ASAP.

These positions are wide open in terms of organism/system.

Thanks,

Paul Chippindale & Sophia Passy, Search Co-Chairs

The Department of Biology at the University of Texas at Arlington (<http://www.uta.edu/biology/>) invites applications for multiple tenure-track faculty positions at the level of Assistant or Associate Professor. Research areas of interest include fundamental questions related to microbiomes and complex microbial communities, host-pathogen interactions, epidemiology, cellular biology, developmental biology, genetics, and global change biol-

ogy. Approaches using cutting edge genomic, proteomic, bioinformatic and statistical modeling techniques are particularly attractive. Successful candidates will have a doctoral degree in a relevant field and will be expected to develop a nationally recognized, extramurally funded research program, as well as teach at the undergraduate and graduate (Master's and Ph.D.) levels. Start-up funds, salaries, and teaching loads are highly competitive.

The Department and University have numerous resources including state-of-the-art labs, an Animal Care Facility, a Genomics Core Facility, a Center for Human Genomics, and the newly established Shimadzu Institute for Research Technologies - a major partnership between UT Arlington and Shimadzu Scientific Instruments that offers extensive resources for imaging, proteomics and analytical chemistry. The Department also benefits from access to core UT-system genomics and computational resources at UT Southwestern Medical Center and the Texas Advanced Computing Center (TACC) - one of the leading advanced computing centers in the U.S. Excellent opportunities exist at UT Arlington and in the Dallas-Fort Worth Metroplex for collaborations with researchers in ecology, evolution, genomics, biochemistry, and biomedical sciences.

Arlington is a city of approximately 365,000 and is conveniently located in the center of the Dallas-Fort Worth Metroplex. Within a 25-mile radius of the center of Arlington is a workforce of over two million people. The city has 82 public parks, including River Legacy Parks, a 1,300-acre oasis on the Trinity River in the heart of north Arlington. Arlington is the home of the Dallas Cowboys Stadium, the Texas Rangers Ballpark, and Six Flags Over Texas. Cost of living is relatively low for a major metropolitan area. The Dallas-Fort Worth International Airport is the fourth largest airport in the US. More information on the city of Arlington can be found at www.experiencearlington.org. Applicants must apply by submitting application materials in PDF format to biosearch@uta.edu. Applicants should include in their application: 1) curriculum vitae, 2) summary of current and proposed research (three pages), 3) teaching interests, and 4) names and email addresses of four references. Review of applications will begin immediately and continue until the positions are filled. A criminal background check will be conducted on finalists.

As an equal employment opportunity and affirmative action employer, it is the policy of The University of Texas at Arlington to promote and ensure equal employment opportunity for all individuals without regard to race, color, religion, sex, national origin, age, sexual orientation, gender identity, disability, or veteran status.

“paulc@uta.edu” <paulc@uta.edu>

UWashington Bothell ComputationalBiol

Please post this job ad for an assistant professor position in computational biology. Evolutionary biologists are welcome and encouraged to apply! The link and text of the ad are pasted below. Thanks!

Sincerely, Kristina Hillesland <https://ap.washington.edu/ahr/academic-jobs/position/-aa14415/> Organization: University of Washington, Bothell, Biological Sciences, School of STEM, Bothell

Title : Assistant Professor

Search Number : AA14415

Position Details

University of Washington Bothell Biological Sciences Division School of Science, Technology, Engineering and Mathematics Assistant Professor in Computational Biology

The Biological Sciences Division of the School of Science, Technology, Engineering, and Mathematics (STEM) at the University of Washington Bothell (UWB) invites applications for a tenure-track position in Computational Biology at the rank of Assistant Professor. The successful candidate may have skills in genomics, biostatistics, or mathematical modeling of biological systems, or a related field. He or she will join our faculty for a full-time nine-month academic year appointment beginning September 16th, 2016. All university faculty engage in teaching, research and service.

Responsibilities and Qualifications

A commitment to excellence in teaching is essential. The successful candidate will be responsible for teaching biology majors to use computational techniques to answer biological questions. She or he will teach upper division courses in their field and contribute to the Introductory Biology series for biology majors. Such courses could include genomics, systems biology, evolution, ecology, computational neuroscience, or biostatistics. The successful candidate may also engage in collaborative teaching and/or research with faculty from mathematics or computer science. An active research program that involves undergraduates is essential; the successful candidate will be expected to apply for extramural funding to support this research program. Service includes

contributing to the continuing development of the biology degree program, and participation in departmental, school, and university committee work.

The candidate must have a doctorate (or foreign equivalent) in Biology, Computational Biology or a related field and expertise in using computational techniques in his or her research. Postdoctoral research experience is required. The candidate must demonstrate a plan for establishing a funded research program that will provide undergraduates with the opportunity to use computer programming or mathematical modeling to conduct original research. Applicants whose research programs complement our existing strengths in evolution, ecology, microbiology, neurobiology, behavior, developmental biology, cell biology, and epigenetics will be strongly considered.

The candidate must be committed to attaining excellence in teaching at the undergraduate level. Applicants must be able to teach courses in biology that include computational skills. She or he must be able to develop and teach accompanying labs. The applicant must demonstrate an ability and commitment to support and enhance learning for diverse populations.

Division of Biological Sciences

The Division of Biological Sciences is a vibrant and growing community of ten full-time faculty. Our biology major is rapidly growing and we expect to graduate approximately 100 biology majors in 2016. All of our students participate in research, either within a faculty member's research program, through an internship, or in a research course. The UW Bothell campus has a new STEM teaching building, a large greenhouse, and a 57 acre restored wetland, all of which contribute to our mission of high quality undergraduate education and research. We believe students learn biology best by engaging in the scientific process, and we are committed to teaching practices that foster learning in students from a variety of backgrounds, including students from backgrounds traditionally underrepresented in science.

School of STEM and University of Washington Bothell

As the fastest growing public university in the state of Washington, the University of Washington Bothell provides a leading-edge student experience that promotes a close relationship with faculty, hands-on learning and community engagement. The academic work of the campus focuses on cross-disciplinary research and creative practice, connected learning, and community engagement. UW Bothell's current enrollment is approximately 5,000 students and is among the most diverse student populations in Washington State. A majority of our incoming students are underrepresented minorities or

first generation college attendees and approximately 92 percent are from Washington. The university is located close to the dynamic Seattle area, known for its global perspective, iconic corporations and organizations. Our passion,

— / —

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>

UWashington Ichthyology Curator

Aquatic and Fishery Sciences - Assistant Professor (AA13367) Position Overview

Organization: University of Washington, College of the Environment, Aquatic and Fishery Sciences

Title : Assistant Professor

Search Number : AA13367 Position Details

The School of Aquatic and Fishery Sciences (SAFS; <http://fish.washington.edu>) at the University of Washington (UW) seeks a tenure-track Assistant Professor (0116) and Curator of Ichthyology at the UW Burke Museum. The successful applicant will complement the diversity of research and education on aquatic systems and processes in SAFS by conducting research and teaching in the field of ichthyology and related aspects of fish biology, and serve as curator of the Burke Museum fish collection (<http://www.burkemuseum.org/ichthyology>). This is a full-time (100% FTE), 10-month position for which a Ph.D. or foreign equivalent is required and post-doctoral experience is strongly desired. We seek an integrative scientist whose research and teaching focuses on questions including evolution, systematics, functional morphology, zoogeography, phylogenetics, or conservation of fishes.

All UW faculty engage in research, teaching, and service. The successful candidate is expected to lead a strong, extramurally funded research program, contribute to our undergraduate and graduate teaching missions, and curate the fish collection. Applicants should describe how their research and teaching will enhance collaborative, interdisciplinary linkages within SAFS and other units in the College of the Environment and the UW, and how their research will be facilitated and supported by the fish collection. Collaboration with external partners including government agencies, non-governmental

organizations, and tribal governments/First Nations is also desired.

We prefer candidates who can contribute to the University's distinctive educational objectives, which include interdisciplinary perspectives, intercultural understanding, and concern with social responsibility and the ethical implications of knowledge and action. SAFS is a dedicated team of educators, enabling our students to successfully explore and interpret the rich array of disciplines and perspectives contained within the aquatic and fishery sciences. Thus, we seek candidates whose research, teaching, and/or service have prepared them to fulfill our commitment to inclusion, and given them the confidence to fully engage audiences from a wide spectrum of backgrounds.

The University of Washington has a unique natural setting from which to base research and education in ichthyology, with abundant stream, lake, estuarine, and marine habitats nearby. SAFS is housed within the University's College of the Environment, which provides a broad interdisciplinary and global position for education and basic and applied research. SAFS maintains unique research and teaching facilities, notably the Burke Museum Fish Collection, and field stations around Puget Sound and field stations in southwestern Alaska.

The University of Washington provides a wide range of networking, mentoring and development opportunities for junior faculty and a comprehensive benefits package (details can be found at <http://www.washington.edu/-admin/hr/benefits/index.html>). Applicants should send the following to safsasst@uw.edu with "Ichthyologist: [your name]" in the subject line of the email: 1) curriculum vitae, 2) statement of research and teaching interests and philosophies including experience with and commitment to diverse audiences and inclusive approaches (4 pages), 3) copies (PDF) of three representative publications, and 4) names and contact information for 3 professional references. All material should be collated into a single PDF document. Consideration of applications will begin immediately and continue until the position is filled. Priority will be given to applications received by November 15, 2015. Questions pertaining to this search can be addressed to the Search Committee Chair, Prof. Thomas Quinn (tquinn@uw.edu).

University of Washington is an affirmative action and equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, protected veteran or disabled status, or genetic information.

WageningenU Insect Adaptation

Assistant Professor Biosystematics-Insect Adaptation and Evolution (tenure track)

Location: Wageningen University, The Netherlands

We are looking for

The Wageningen UR Biosystematics chair group offers a tenure-track Assistant Professor position in the field of Insect Adaptation and Evolution. In the Biosystematics group, we strive to understand the evolutionary patterns and processes giving rise to the biodiversity on Earth, from deep time scales up to recent crop domestication and insect pest shifts. Specifically we address fundamental questions about genome evolution, evolution of plant-insect interactions and timing and spacing of speciation and extinction. We seek expertise to complement and strengthen our team in the area of insect adaptations, particularly related to insect-plant interactions, using a comparative evolutionary framework. We anticipate that together with other staff members you will develop new research directions within this area, that allow the group to extend its position in research on trait evolution and species radiations of insects and plants. You will be involved in teaching bachelor courses related to insect identification and biodiversity within the Netherlands and Europe. Thus, a broad knowledge of insect groups and Dutch language skills are desired. You will develop lecture notes, practical exercises and background reading materials. You will supervise students for BSc and MSc projects and co-supervise PhD students.

We ask

You have a PhD in Entomology, Evolution, Genomics or another discipline that is appropriate. A research focus on genome-scale data to identify genes and changes driving insect adaptation/specialization/speciation such as evolution of plant-pest or plant-pollinator species. Furthermore, comparative analysis of insect clades (rather than on a single organism), is essential. You have broad knowledge of insect diversity and insect-plant interactions and skills in analyzing data from non-model insects (e.g. transcriptomics, whole genomes, population genomics). You have a proven record of very good/excellent publications and a wish to work closely with others in the team. You have good communication skills, at least some experience in teaching and MSc and

PhD student supervision. You have a shown ability to write successful project proposals.

We offer

We offer you as a talented scientist a challenging career trajectory called Tenure Track. From the position of Assistant Professor you can grow into a Professor holding a Personal Chair. cooperation stimulated. You will also be given the chance to build up your own research line. We offer you a temporary contract for 38 hours per week, which can lead to a permanent employment contract. Gross salary per month: (rank 11) from euro 3.324,- to euro 4.551,-, based on full time employment and dependent on expertise and experience. A part time employment (of at least 0,8 FTE) is also possible.

For more information about tenure track: <http://www.wageningenur.nl/en/Jobs/Why-choose-Wageningen-UR/Your-development-in-focus/Tenure-Track.htm> More information

For information about this vacancy you can contact the chair holder of the Biosystematics Group, prof. dr. Eric Schranz, e-mail eric.schranz@wur.nl.

You can apply until 22 October 2015. The selected candidates will be interviewed by a recruitment committee.

Don't email directly to the people mentioned above but use the website to apply: www.wageningenur.nl/career <http://www.wageningenur.nl/en/vacancy/Assistant-Professor-BiosystematicsInsect-Adaptation-and-Evolution-tenure-track.htm> We are

The chair Biosystematics is one of the 18 chairs in the Department of Plant Sciences, Wageningen University and Research Centre and member of the Graduate School 'Experimental Plant Sciences' (EPS). Excellent opportunities for collaboration with the chair groups in Genetics and Entomology in the Department of Plant Sciences exist for this position. Wageningen University was ranked number one in Agriculture in the 2014 NTU Rankings. This chair is responsible for academic education and research on biodiversity, phylogenetics and comparative genomics.

Research in the Biosystematics Group is focused on the origin and maintenance of plant and insect biodiversity, above and below the species level. We investigate radiation, speciation, domestication and plant-animal interactions, and use phylogenetic patterns and comparative genomics to test hypotheses on the underlying processes.

We are responsible for a wide range of courses that use a variety of teaching methods: lectures, practicals, computer-based tools, field work,

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WashingtonU EvolutionaryEcol

Washington University in St. Louis, Department of Biology

ASSISTANT OR ASSOCIATE PROFESSOR IN ECOLOGY

The Department of Biology at Washington University in St. Louis is pleased to invite applications for a tenured-track faculty position in ecology at the Assistant or Associate Professor level. We are searching broadly for an ecologist who addresses exciting conceptual questions using theory and/or empirical approaches. We welcome applicants working on interactions among organisms of any taxa, including microbes, and in any area of ecology, including population, community, ecosystem, evolutionary ecology or ecological genetics. Qualifications include a Ph.D. in biological science and a strong record (for Associate Professor, a strong tenurable record) in research, mentoring, and teaching. Washington University aims to provide the start-up funding, laboratory development resources and ancillary support to facilitate continuing that strong record.

The successful candidate will contribute to research, mentoring, and teaching at graduate and undergraduate levels. She or he will develop an exciting, externally funded, and internationally recognized research program. Duties include research and writing for publication, mentoring both graduate and undergraduate students, teaching, academic advising, and university

service. Teaching duties will be in the general areas of ecology and environmental biology.

We offer a collaborative, intellectually stimulating, and supportive environment in which faculty can thrive. We are strongly committed to openness and diversity and have a very welcoming climate that spans biological research areas. Besides the Department of Biology (wubio.wustl.edu) resources available include: the Tyson Research Center (tyson.wustl.edu), a 2,000-acre field station less than 20 miles from campus and an ideal venue for large-scale studies in a variety of local ecosystems; an interdepartmental graduate program in ecology and evolution (dbbs.wustl.edu/divprograms/eepb/Pages/Faculty.aspx); the International Center for Advanced Renewable Energy and Sustainability (i-cares.wustl.edu), which fosters cross-disciplinary environmental research; and significant collaborative opportunities with regional partner institutions such as the Missouri Botanical Garden (mobot.org).

To apply, please collate the following into a single pdf file: cover letter; curriculum vitae; and no more than four pages total on research, mentoring, and teaching. Please also send pdfs of 3 publications and arrange to have 3 letters of reference sent in support of your application. All application information, including letters, should be sent electronically to: ecology.search@wustl.edu. Questions can be directed to David Queller (queller@wustl.edu), who is chair of the search committee. Review of applications will begin on 15 November 2015.

Washington University in St. Louis is committed to the principles and practices of equal employment opportunity and affirmative action. It is the University's policy to recruit, hire, train, and promote persons in all job titles without regard to race, color, age, religion, gender, sexual orientation, gender identity or expression, national origin, veteran status, disability, or genetic information.

"Queller, David" <queller@wustl.edu>

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Alternatives To Treefinder

Dear community,

after treefinder's most recent license change. I would kindly ask you to me help complete a list of alternatives to treefinder, only for the record. In case anyone out there is still using the software.

ML-based phylogenetic inference: RAxML PhyML Garli

Monophyly tests: Consel

Model selection: ModelTest and derivatives

Tree visualization and manipulation: TreeView

Large trees: Fasttree

Help appreciated.

best regards,

Sergio

sevrargorgia@gmail.com

Animal Genomics TestDataset

To facilitate phylogenetic analyses of animals and provide a test dataset for methods development, we will make a prepopulated database available for broadly sampled animal genomes in our automated phylogenomics tool Agalma (doi: 10.1186/1471-2105-14-330 <<https://www.google.com/search?client=3Dsafari&rls=3Den&q=3Ddoi:+10.1186/1471-2105-14-330&ie=UTF-8&oe=UTF-8>>). The intent is to include all published high quality genomes of animals and other members of Holozoa, except in Arthropoda and Vertebrata (which are much more densely sampled than other clades) where we will pick a subset. Suggestions are very welcome on additional genomes, genomes to remove due to quality issues, or better sources of genome data (with annotations) for listed taxa. Please make such suggestions in the issue tracker: <https://bitbucket.org/caseywdunn/agalma/issues/187/-import-annotated-genomes> Thanks,

Agalma Development Team Brown University

"felipe.zapata@brown.edu" <felipe.zapata@brown.edu>

Apologies

Dear Evoldir members,

I am one of the coauthors of the treefinder (2004) paper.

I would like to strongly distance myself from the extremist, racist, and otherwise crude world view that is propagated on the treefinder webpage.

I have not been in contact with Gangolf Jobb for over a decade, since he left my group in September 2004 (then at the University of Munich).

Best regards and my sincere apologies,

Korbinian Strimmer

Korbinian Strimmer <k.strimmer@imperial.ac.uk>

CanadianInstEcolEvol CallForProposals

New Call For Proposals

The Canadian Institute of Ecology and Evolution (CIEE) seeks proposals for Thematic Programs (Working Groups). These new thematic programs will be staged over the 12 month period from January to December 2016. The proposals should outline a plan to address significant questions in ecology and evolution through synthesis and integration of existing data (e.g., quantitative research synthesis, compilation and meta-analysis of existing data sets). Applicants must define the project scope, meeting agenda, inclusive budget, and plan for publication. CIEE/ICEE provides logistic support and travel expenses. In the past, working groups were awarded grants valued from \$ 6,000 to \$15,000. Programs can be also co-sponsored with other organizations. Working group involve 8 to 20 participants, including graduate students. Meetings can be held at any location in Canada; however preference will be given to meetings hosted at member organizations. The deadline for submission of proposals is 9 November 2015. Please visit our website (<http://www.ciee-icee.ca/news-and-announcements>) for details in the application.

Nouvel appel À propositions

L'Institut canadien d'écologie et d'évolution (ICEE) accepte les propositions d'ateliers thématiques (groupes de travail). Les nouveaux groupes de travail devront se dérouler dans les 12 mois allant de janvier À décembre 2016. Les propositions doivent présenter un plan de résolution de problèmes d'importance en écologie et en évolution par la synthèse et l'intégration de données existantes (par exemple, par la synthèse de recherches quantitatives ou la compilation et la méta-analyse de bases de données existantes). Elles doivent aussi préciser la portée du projet, les rencontres prévues, le budget total et les publications anticipées. L'ICEE fournit le soutien logistique et couvre les frais de déplacement. Par le passé, les groupes de travail se sont vu accorder des subventions allant de 6 000 À 15 000 \$. Les ateliers peuvent également être coparrainés par d'autres organismes. Les groupes réunissent 8 À 20 personnes, incluant les étudiants et étudiantes aux cycles supérieurs. Les rencontres peuvent se dérouler n'importe où¹ au Canada, la préférence sera cependant accordée aux réunions organisées dans les établissements membres. L'ICEE offre également aux groupes la possibilité d'utiliser les installations et le soutien logistique de son Centre de synthèse À l'University of Regina. Soumettez la proposition complète en un seul fichier Adobe PDF d'ici le 9 Novembre, 2015 À : ciee-icee@uregina.ca. Consulter notre site web pour plus de détails (<http://www.ciee-icee.ca/news-and-announcements>).

Dr. Peter R. Leavitt, Director Dr. Diego F. Steinaker, Assistant Director CIEE /ICEE, Canadian Institute of Ecology and Evolution / Institut canadien d'écologie et d'évolution Email: ciee-icee@uregina.ca Twitter: @CIEEICEE www.ciee-icee.ca Ciee Icee <Ciee-Icee@uregina.ca>

CitizenScience Birds 3D

Mark My Bird - using citizen science to understand avian evolution

I would like to introduce a new citizen science project called Mark My Bird. Our lab at the University of Sheffield are 3D scanning bird bills from all the world's bird species (~5000 species scanned so far) and we asking citizen scientists to help us out by landmarking the scans at markmybird.org.

The data will be used to test hypotheses on the tempo and mode of bill evolution. All data (raw scans, land-

marks, PC axes from geometric morphometric analyses) will be deposited on the open access NHM London Data Portal (<http://data.nhm.ac.uk>) alongside publication so will create digital legacy of the museum collections from which the data are generated.

Anyone can get involved - even if you are not interested, maybe your students/colleagues/friends/families are. We hope that you can help spread the word.

Many thanks

Gavin Thomas & the Mark My Bird team @MacrobirdEvol www.markmybird.org gavin.thomas@sheffield.ac.uk

“gavin.thomas@sheffield.ac.uk”

<gavin.thomas@sheffield.ac.uk>

CostaRica REU CallForResearchMentors

CALL FOR RESEARCH MENTORS

NAPIRE: Native American and Pacific Islander Research Experience at Las Cruces Biological Station, Costa Rica

Mentors needed between June 20th and August 3rd, 2016

The Organization for Tropical Studies (OTS) is seeking Research Mentors (ABD or PhD only) for the Native American and Pacific Islanders Research Experience (NAPIRE) Program funded by the National Science Foundation's Louis Stokes Alliance for Minority Participation (NSF LSAMP) at the Las Cruces Biological Station in Costa Rica. This is an exciting and highly rewarding research internship program for minority undergraduate students enrolled in accredited institutions in the United States and Pacific Island Territories.

The goal of the NAPIRE Program is to facilitate a successful summer research experience for Native American and Pacific Islander undergraduate students and, therefore, strengthen their interest and potential for pursuing careers in biology or environmental science. The program seeks to provide a quality, safe environment where students are motivated to learn scientific skills, such as:

- Critical thinking,
- Hypothesis building and testing,
- Research design and sampling,
- Statistical analysis skills, and

- Scientific writing and presentation.

Mentors will live at the Las Cruces Station where they will provide personal, direct guidance in ecological research for one or two (typically) undergraduate students. Mentors will guide students as they work to develop an answerable research question, design their research goals and data collection methods, analyze data, and interpret and present results. In addition, mentors will also participate in symposia, evaluations, and ethics discussions.

Mentors do not receive honoraria, but NSF funds their transportation to and from Costa Rica, as well as room, board, station use, research permits, in-country transportation, and needed equipment and supplies. The Las Cruces Station offers excellent installations, logistics, and other conditions for long-term research projects in forest ecology, climate change, ecological restoration, habitat fragmentation, and other similar studies.

NAPIRE Mentors are needed between June 20th and August 3rd, 2016. Interested researchers should send a letter of interest and a short summary (max 250 words) of potential student research project(s). This summary will be used on the OTS website so that students can select their preferred mentors/projects in their applications. For researchers who have not previously served as mentors in the NAPIRE Program, please also provide a copy of your curriculum vitae and a statement of mentoring philosophy. To allow sufficient time for appropriate matches between mentors and accepted students, please send this information by no later than November 30th, 2015.

Applications should be sent electronically to Barbara Dugelby, Program Coordinator, at barbara@dugelby.com.

Thanks for posting.

Best,

Andrés Santana Graduate Program Coordinator Organization for Tropical Studies San Pedro, Costa Rica. 676-2050 (506) 2524-0607 ext. 1511 Skype: andres.santana_otscro // twitter: [@ots_tropical.edu](https://twitter.com/ots_tropical.edu) www.ots.ac.cr andres.santana@tropicalstudies.org

DNA extraction Magnetic Particles

Dear colleagues,

We are currently looking for DNA extraction robots and while the choice (and price range) is quite large, we have narrowed it down to a few devices, including the KingFisher nucleic acid purification products from Thermo Fischer (i.e. KingFisher Duo Prime Purification System; KingFisher Flex Magnetic Particle Processors). These robots are not based on 'typical' DNA extraction protocols but use magnetic particle separation technology to isolate DNA. As we are not familiar or experienced with such technology, we would like to ask if people that have/are using it would be so kind to send us comments regarding: -generally how satisfied you are, -which sample types are you extracting (important as the the system might work well for some sample types but not for others), -how good is the DNA/extract in terms of quantity/quality/purity (especially when extracting from samples that might contain PCR inhibitors [e.g. plant/fungi material]), -has anybody tried this extraction system with non-invasive samples (e.g. isolating DNA from faeces) or generally samples with low DNA content (e.g. swab samples), -has anybody carried out the extractions with home-made buffers (especially wash buffers) and if so, would they be willing to share them (or indicate if they are available online as papers or other), -Any other pros and cons would be very welcome, I'll of course repost all collected info here on EvolDir in a few days.

Thanks in advance! Cheers,

Sebastien Puechmaille <s.puechmaille@gmail.com>

Entomology Student Award

The student award Appreciation for the Natural History of Insect Pests is in its third year!

Selection criteria and conditions: The selection committee will award \$500 to the student who in the given year publishes the most interesting and inspiring research paper on insects which are usually regarded as pests.

For details, please see: <http://www.ambrosiasymbiosis.org/award/> The award: \$500 awarded annually to one recipient. Sponsored by the Forest Entomology lab at the University of Florida and by the TREE Foundation in Sarasota, FL.

Who is eligible: University students regardless of their geographic location.

Due date: Each year on December 31st

Jiri Hulcr, Assistant Professor University of Florida | School of Forest Resources and Conservation 352-273-0299 | www.ambrosiasymbiosis.org "Hulcr,Jiri" <hulcr@ufl.edu>

ESEB Call Godfrey Hewitt Award

Godfrey Hewitt Mobility Award 2016 Call for Applications

Godfrey Hewitt (1940-2013) was President of the European Society for Evolutionary Biology (ESEB) from 1999-2001. He was exceptionally influential in evolutionary biology both through his research and through his mentoring of young scientists. He was also a great believer in seeing organisms in their environment first-hand and in exchanges of ideas between labs. Therefore, ESEB has decided to offer, annually, mobility grants for young scientists in his name.

Closing date: Friday 15 January 2016, 12.00 GMT.

Eligibility:

The award is open to PhD students or postdoctoral scientists who are, at the closing date for applications, both within 6 years of the start date of their PhD and ESEB members. The maximum single award will be 2000 Euros. It must be used to support fieldwork or a period of research at a lab that you have not previously visited. There is no restriction on the country of residence or nationality of the applicant. A report will be required by 30 April 2017, by which time the funds must have been used.

Application procedure:

Your application should be sent as a single PDF file to Ute Friedrich at the ESEB office, office@eseb.org. It should include your name, current status and institution, your PhD start date, your ESEB membership number, a description of the work to be carried out (maximum 500 words), an outline budget with brief justification (maximum 100 words) and a signed statement from your

PhD supervisor or postdoctoral adviser (maximum 100 words) explaining why the work cannot be funded from your home institution or your proposed host institution.

Applications will be considered by a committee chaired by Roger Butlin. The aim will be to announce decisions before the end of March 2016.

The committee will consider the following key criteria:

1. The value of the proposed mobility in terms of its expected output and impact on the applicant's career. The committee prefers projects that are: a. Not a core component of the applicant's existing PhD or postdoctoral project, but a new venture. b. Clearly based on the applicant's own initiative c. Likely to be completed and have definable output within the award period d. Have the potential to lead to larger future projects or to enhance the applicant's career in evolutionary biology
2. The need for the GHM award, i.e. the potential for the funding provided by ESEB to make a difference, in relation to resources already available through the home or host institution.

Please endeavour to address these points in your application.

Sincerely, Ute Friedrich ESEB Office Manager

– European Society for Evolutionary Biology
Email: office@eseb.org Homepage: www.eseb.org
office@eseb.org

ESEB MaynardSmithPrize CallNominations

John Maynard Smith Prize 2016: Call for Nominations

Every year the European Society for Evolutionary Biology (ESEB) distinguishes an outstanding young evolutionary biologist with a prize named after John Maynard Smith (1920 - 2004), eminent scientist, great mentor, author of many books on evolution, and a former President of ESEB.

Nomination:

The prize is open to any field of evolutionary biology. The candidates for the 2016 prize must have begun their PhD study after January 1, 2009. The nomination of the candidate may be by a colleague or self-nominated. The nominations should be sent as a single PDF file to Ute Friedrich at the ESEB office <office@eseb.org>. The nomination should include a brief justification, the

candidate's CV and list of publications (indicating three most significant papers), a short description of future research plans, and a letter from the candidate approving the nomination. A letter of reference from another colleague (or two in case of self-nomination) should be sent directly to Ute Friedrich.

Nominations should arrive no later than January 15, 2016. Please take care to limit the size of attachments (total < 10 MB) in any one email.

The nomination committee, chaired by the ESEB Vice President Juha Merilä, will evaluate the nominations and inform the winner approximately by the end of February 2016.

The prize winner is expected to attend the ESEB congress in Groningen, The Netherlands (20-25 August, 2017), where he or she will deliver the John Maynard Smith Lecture. The Society will cover registration, accommodation, and travel expenses (economy fare). The JMS Prize comes with a monetary prize of 2500 Euro and the possibility of a Junior Fellowship of generally 3 months at the Institute of Advanced Study (Wissenschaftskolleg) in Berlin, Germany. For more information on the Wissenschaftskolleg see www.wiko-berlin.de/en/. Previous winners of the JMS Prize are listed on the ESEB web site: www.eseb.org Sincerely, Ute Friedrich ESEB Office Manager – DEE, Biophore University of Lausanne CH-1015 Lausanne Switzerland Email: office@eseb.org

European Society of Evolutionary Biology - www.eseb.org office@eseb.org

EvolutionaryGenomics Textbook

As requested by some: here are replies to my query.

My question was: Can anyone recommend a book for a course in evolutionary/ecological genomics, phylogenetic analysis for third year undergraduate students (biology, zoology and ecology)?

How about: Introduction to Evolutionary Genomics Authors: Naruya Saitou ISBN: 978-1-4471-5303-0 (Print) 978-1-4471-5304-7 (Online)

OR Introduction to Ecological Genomics Van Straalen en Roelofs (too advanced for undergraduates?)

Very few answers unfortunately:

—

Page and Holmes textbook Molecular Evolution: A Phylogenetic Approach is available free online: <http://www.download-genius.com/download-k:Molecular+Evolution%3A+A+Phylogenetic+Approach+Roderick+D.M.+Page%2C+Edward+C.+Holmes.pdf.html?aff.id=4966&aff.subid@>

The phylogenetic methods chapters are well written and, for the most part, up-to-date. This won't meet all of your needs, but could be a good choice for the phylogenetics part of your course. Since it's free, you can incorporate it into your course without asking your students to pay for two text books.

It does not cover gene and genome evolution to my satisfaction, unfortunately.

—
Dan Graur has a new book out in December: Molecular and Genome Evolution <http://www.sinauer.com/molecular-and-genome-evolution.html> It is a very big book, in excess of 900 pages, and the contents looks very good. He hopes to have a more 'manageable' textbook out in a year+ I.

—
I found another one: by Jobling et al, Human evolutionary genetics 2nd ed, Garland Science. I think it is very good for undergraduates, with a summary, questions and focused references, lots of colour and figures. However, as the title says it is only about humans. Nevertheless, general biology students will find it interesting as well.

—
Best wishes, Kirsten

kirsten.wolff@newcastle.ac.uk

Evolutionary Genomics Textbooks

Dear all,

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for undergraduates?)

Any experience with these books or other suggestions welcome. Best wishes, Kirsten

Dr Kirsten Wolff Reader in Evolutionary Genetics Newcastle University, School of Biology Devonshire Building 5th floor Newcastle NE1 7RU, UK Phone: 0191 2084852 (internally 84852) email: kirsten.wolff@ncl.ac.uk www.staff.ncl.ac.uk/kirsten.wolff/ Kirsten Wolff <kirsten.wolff@newcastle.ac.uk>

InMemory MargaritaMetallinou

Dear Community,

It has been three months since Margarita's Metallinou tragic loss that saddened the international community. Dr. Margarita Metallinou was a very talented and promising evolutionary biologist and herpetologist whose career was just beginning to blossom. She completed her undergraduate studies at the University of Athens in Greece, an MSc in Biodiversity at the University of Barcelona in Spain, and a PhD on the evolution of desert Geckos at the Institute of Evolutionary Biology in Barcelona in 2014. Thereafter, Margarita moved to the United States where she began a postdoctoral position at Villanova University. Tragically, Margarita's life was cut short in a wildlife accident while conducting fieldwork in Zambia, southern Africa, on July 2nd 2015. During her short but intense career, she inspired many students around the world with her dedication and passion for science, her tenacity, her boundless energy, her ability to help everyone around her, and her determination to enjoy life and follow her dreams.

We would like to bring to your attention two initiatives that have been developed by members of the community in honor of Margarita:

- a) The organizers of the EMBO practical course on Computational Molecular Evolution have established a 'Margarita Metallinou fee waiver award' for course participants. Via this award the course organizers hope to transmit Margarita's passion for research to future generations of students and to preserve her memory: <http://events.embo.org/16-computational-evolution/>
- b) To commemorate Margarita's legacy, the Society for the Study of Amphibians and Reptiles (SSAR) wishes to establish a Postdoctoral Travel Award endowment for one or more young researchers to attend the Society's annual meetings. A crowd-funding effort has been

initiated to support this endowment. *Please use the link below to find out more about this initiative and make a donation:* < <https://www.instrumentl.com/-campaigns/metallinoufund/> >

Thank you for your support,

Margarita's friends and colleagues formargaritametalinou@gmail.com

Anna Papadopoulou <a.papadopoulou05@gmail.com>

OldSoftware KlastRunner

Greetings,

I would like to kindly ask if anyone would by chance have a copy of the outdated software KlastRunner 4.2 for Mac OSX ?

I have an Academic License of use, and was greatly enjoying this software, however upon a computer crash I unfortunately lost my copy, and the designing company Korilog is no longer in operation or providing support.

Please if someone would have a copy of KlastRunner 4.2 for Mac OSX, please do contact me.

Many thanks,

– Eduardo G. P. Fox https://www.researchgate.net/profile/Eduardo_Fox <https://scholar.google.com.br/citations?user=gu2AA6UAAAAJ> Eduardo Fox <ofoxofox@gmail.com>

Phyloseminar CatherineGraham Nov4

Phylogenetic beta-diversity: a means to understand, map and conserve spatial patterns of biological diversity Catherine Graham (Stony Brook) Wednesday, November 4, 2015, 10:00 AM PST

Beta-diversity has long been recognized as an instrumental diversity measure providing insight as to how and why diversity varies across space. Beta-diversity also underlies most complementarity-based reserve design algorithms which quantify the extent to which an area contributes unrepresented features to an existing area or set of areas. In the early 2000 researchers started

to recognize that beta-diversity could be extended to include phylogenetic information. By accounting for shared evolutionary history among assemblages/regions phylogenetic beta-diversity can provide insights into both the ecological and evolutionary mechanisms influencing variation in species diversity and the best way to conserve phylogenetic diversity in a reserve system. In this seminar I will begin by briefly reviewing various definitions and approaches to measuring and mapping beta-diversity. Then I will use a series of examples to show some of the new insights phylogenetic beta-diversity has provided to both basic science and conservation.

For more details, please visit <http://phyloseminar.org/> – Frederick “Erick” Matsen, Associate Member Fred Hutchinson Cancer Research Center <http://matsen.fredhutch.org/> matsen@fredhutch.org

Plant EvoDevo Funding Opportunity

The microMORPH RCN promotes and fosters cross-disciplinary training and interaction through a series of small grants that allow graduate students, post-doctoral researchers, and early career faculty to visit labs and botanical gardens.

Award Amount: Each Year, microMORPH is able to fund five graduate student, post-doctoral, or early career faculty cross-training research opportunities for up to \$3,500 to cover travel, lodging, and per diem.

Submission Deadline: The next microMORPH Cross Disciplinary Training Grant deadline is 11:30 pm Nov 15th, 2015.

Eligibility: To be eligible for a microMORPH training grant you must fulfill one or more of the following requirements: 1) you must be a U.S. citizen or, 2) you must be affiliated with a U.S. university or institution (in a graduate program or working as a post-doc or faculty member), or 3) the lab you plan to visit for your training experience must be at a U.S. university of institution.

How to Apply: For full application instructions (including list of required documents) and to submit applications, please visit the microMORPH website(<http://-projects.iq.harvard.edu/micromorph>).

Proposal Evaluation: Two members of the steering com-

mittee (one organismic and one molecular) and a third individual from outside the core participants (chosen by the steering committee) are charged with evaluating applications.

Questions or Comments?: Contact Becky Povilus at RCNmicromorph@gmail.com

“Pamela.Diggle@colorado.edu”
<Pamela.Diggle@colorado.edu>

Publication survey

Dear colleagues,

We contact you today with a special request. We are currently working on a study addressing publishing behavior. We would appreciate if you would take 10 minutes of your time to take part in our online questionnaire. You will not be required to provide your name and all data will be treated anonymously.

Additionally, we would appreciate if you would spread the link to the questionnaire to colleagues within the field of biology. The link to the survey is provided below.

Please click on the link or copy it into your browser:

<https://www.socisurvey.de/publishingbehavior/> If you have any questions please contact:

Jan Christian Habel, Terrestrial Ecology Research Group, Technical University Munich, Germany; E-Mail: Janchristianhabel@gmx.de Website: <http://www.toek.wzw.tum.de/index.php?id=3D140> Martin Husemann, General Zoology, Martin-Luther University Halle-Wittenberg, Germany; E-Mail: martin.husemann@zoologie.uni-halle.de Website: http://www.zoologie.uni-halle.de/allgemeine_zoologie/-staff/martin_husemann/?lang We highly appreciate your time and afford!

Kind regards,

Martin

Martin Husemann <martin.husemann@zoologie.uni-halle.de>

QuantBioConceptInventory Reviewers

NIMBioS is seeking reviewers for an assessment tool. If you are interested, please email Pam Bishop (pambishop@nimbios.org).

http://www.nimbios.org/press/FS_grant >From the site:

We need your expertise. NIMBioS seeks expert reviewers for the Quantitative Biology Concept Inventory, now under development with support from the National Science Foundation. Reviewers will provide feedback on 4-6 assessment items that measure undergraduate math concepts in a biological context. On a scale from 1-4, reviewers will be asked to rate how well each item represents a particular concept, the clarity of the item, and the overall quality of the item. Additionally, they will be asked to provide feedback on any improvements they think could be made to the items in general. All reviews will take place electronically and will take approximately one hour to complete. For an invitation to review, contact Pamela Bishop, NIMBioS Evaluation Manager at pambishop@nimbios.org

Kristin P. Jenkins, PhD Director

BioQUEST Curriculum Consortium bioquest.org (608) 622.9394 POBox 45032 Madison, WI 53744

Kristin Jenkins <kristin.jenkins@bioquest.org>

RegalDemoiselle Samples

WANTED: BARCODES OF NEOPOMACENTRUS CYANOMOS (REGAL DEMOISELLE) FROM MANY PARTS OF ITS NATURAL RANGE

The Indo-west Pacific reef damselfish *Neopomacentrus cyanomos*, aka the Regal demoiselle, is now well established in the southern Gulf of Mexico. We are trying to determine the ultimate source and mode of this introduction. Barcodes of this species from the Seychelles, Madagascar and the northern Great Barrier Reef (these are the only useful barcodes present in BOLD as of October 1, 2015) do not resolve those issues. Hence

we request that people in various other parts of its geographic range (e.g. the Red Sea, E Africa, India, Sri Lanka, Thailand, Indonesia, W Australia, the Philippines, Taiwan, and New Caledonia) provide barcodes of this species to help with this effort. Barcoded fish need to be field-caught (NOT supplied by the aquarium trade, which moves fish around a lot) and vouchered (a good photo will do if the fish can't be preserved and kept in a museum collection). Please send barcodes together with related collection-site and voucher information to: D Ross Robertson (Smithsonian Tropical Research Institute, Panama), at drr@stri.org. Thanks for any help.

Ross

Ross Robertson <drr@stri.org>

SanDiego PlantAnimalGenomes Jan9-13 CallAbstractsComputerDemos

Hello all,

Plant and Animal Genome XXIV (PAGXXIV) January 9-13, 2016 San Diego, California, United States <http://intlpag.org/> PAGXXIV will bring together over 3,000 leading researchers in plant and animal research, and over 130 exhibits, 150+ workshops, 1000+ posters, and a computer demo track specifically for highlighting relevant software and online resources. PAG is the largest Ag-Genomics meeting in the world.

If you work on digital resources that enable life science research, then please consider submitting an abstract to the PAG computer demonstration track. Computer demos are 15-20 minutes long, and are an excellent way to get resources in front of the people who will benefit the most from it.

The Computer Demo abstract submission deadline is this Friday October 30, 2015. All computer demo presenters must be registered for the conference prior to submitting. Any software which is demonstrated at the PAG Conference must also be available to the scientific community and non-commercial.

See <http://www.intlpag.org/2016/abstracts/computer-demos> for additional information and a link to the submission form.

Hope to see you in San Diego!

Dave Clements and Brian Smith-White PAGXXIII Com-

puter Demo Track Co-Chairs

– <http://galaxyproject.org/> <http://getgalaxy.org/> <http://usegalaxy.org/> <https://wiki.galaxyproject.org/> Dave Clements <clements@galaxyproject.org>

Shared offices

The University of Sussex is currently in the process of designing a new Life Sciences building. The current proposal is to have faculty share offices, possibly in small numbers, but also possibly in one large open plan office. I wonder if anyone has experience of this sort of arrangement, or may be knows of another university which has done this. What level of sharing is involved and how has this worked?

Any help would be appreciated.

Adam

Adam Eyre-Walker

Professor of Biology

School of Life Sciences

University of Sussex

Brighton

BN1 9QG

tel : 01273 678480 www.lifesci.sussex.ac.uk/home/Adam_Eyre-Walker/Website/Welcome.html Adam Eyre-Walker <a.c.eyre-walker@sussex.ac.uk>

Software FigTreev1 4 3 pre-release

Dear All,

I have posted a preview of v1.4.3 of FigTree here:

<https://github.com/rambaut/figtree/releases/tag/1.4.3pre> The primary reason for this is because the old version 1.4.2 on Mac was requiring the installation of Apple's legacy 1.6 Java rather than using

the default Oracle 1.8 Java. The code itself was compatible, it was just the packaging as an Apple app that was at fault.

The full version of 1.4.3 will be released very shortly - I

just have a couple more bugs to fix and features to add.

Thanks,

Andrew

Andrew Rambaut Institute for Evolutionary Biology
| Centre for Infection, Immunity & Evolution Ash-
worth Laboratories, University of Edinburgh, Edinburgh,
EH9 3FL, UK contact â€ a.rambaut@ed.ac.uk | <http://tree.bio.ed.ac.uk> | tel +44 131 6508624

Andrew Rambaut <rambaut@gmail.com>

Software Treefinder LicenseChange

Dear All!

Please note that I have changed the license agreement of my TREEFINDER software (www.treefinder.de): Starting from 1st October 2015, I do no longer permit the usage of my TREEFINDER software in the following EU countries: Germany, Austria, France, Netherlands, Belgium, Great Britain, Sweden, Denmark - the countries that together host most of the non-european immigrants. For all other countries, the old license agreement remains valid. USA has already been excluded from using Treefinder in February 2015. This is all in accordance with the license agreement stated in the TREEFINDER manual since the earliest versions, which reserves me the right to change the license agreement at any time. I can do this because Treefinder is my own property.

On the TREEFINDER download website I have collected many links to background information, including some in English language.

I will check who is using Treefinder and I may sue the license violators. I will, however, make exceptions for political friends. Those who feel they are shall ask me.

Regards,

Gangolf Jobb

Gangolf Jobb <gangolf@treefinder.de>

SouthAfrica VolResAssist PhysiologyCooperation

Volunteer Research Assistant position

Causes of individual variation in cooperative investment in the Damaraland Mole-Rat

I am a PhD student at the University of Cambridge and Im looking for a volunteer research assistant to carry out exciting experiments with captive Damaraland mole-rats, *Fukomys damarensis*. The study site is at the Kuruman River Reserve, in the South African Kalahari Desert.

My research, investigates the causes of individual variation in cooperative behaviour. I am particularly interested in whether and how varied social experiences throughout life can generate differences in development and behavioural profile. At the physiological level, I investigate whether such social influences on individual phenotypical plasticity are mediated by hormones and ultimately question the adaptive relevance of both within and between individual variations in cooperative investments. Further information about the experiments will be provided on interview.

I am looking for applicants available for a 12 months period starting as soon as possible. Shorter availabilities can also be considered. The position mainly involves data collection (behavioural observations and collection of blood, and urine samples). Other general tasks related to animal handling (hormone injections and implants) and husbandry and data handling will also be expected. Working weeks will not exceed 45 hours. Applicants should be hardworking, enthusiastic, physically fit, and prepared for long hours in the laboratory. The advertised position is particularly suited for people aiming to carry on their education with a PhD or a management position in a research project. Successful applicants can expect to gain invaluable experience in animal handling procedures as well as in designing and conducting experiment on a daily basis. They will be trained to work with the software ObserverXT and Microsoft Access. They will be given the opportunity to conduct a personal analysis project using our project database, and for which I will supervise them.

Costs of food and accommodation while at the project will be covered.

Volunteers will receive a monthly allowance of 350 ZAR.

If you are interested in this position send your CV and cover letter stating your availability to Philippe Vulliod (philippe.vulliod@gmail.com).

Shortlisted applicants will be invited for a Skype interview. Deadline: 31 October 2015 (the position will remain open until filled)

Philippe Vulliod <philippe.vulliod@gmail.com>

SouthAfrica Volun EvolutionStripedMouse

Volunteer opportunity

as field assistants for the project:

Evolution and Socio-Ecology of small Mammals in the Succulent Karoo of South Africa

Opportunity: This is a great opportunity for anybody who wants to get more experience in field work relating to animal behavior, evolution, eco-physiology, and ecology before starting an MSc or PhD project.

Project: We study the evolutionary and ecological reasons as well as physiological mechanisms of group living, paternal care, communal nesting and social flexibility in the striped mouse. One focus is on the adaptation to droughts, combining physiological, behavioral, ecological and evolutionary research. As this species is diurnal and the habitat is open, direct behavioral observations in the field are possible.

What kind of people are needed? Biology/zoology/veterinary students are preferred as candidates. Applicants must have an interest in working in the field and with animals. Hard working conditions will await applicants, as the study species gets up with sunrise (between 5 and 6 o'clock), and stops its activity with dusk (19 o'clock). Work during nights might also be necessary. Work in the field will be done for 5 days a week. Applicants must be able to manage extreme temperatures (below 0 at night in winter, sometimes over 40 during summer days). Applicants must both be prepared to live for long periods in the loneliness of the field and to be part of a small social group.

Work of volunteer field assistants: Trapping, marking and radio-tracking of striped mice; direct behavioral observations in the field. Volunteers will also see how blood samples are collected for physiological measurements. Volunteers are expected to help with maintenance of

the research station (water pump, solar power, etc.).

Confirmation letter: Students get a letter of confirmation about their work and can prepare a report of their own small project to get credit points from their university for their bachelor or masters studies.

Costs: Students have to arrange their transport to the field site themselves. Per month, an amount of Rand 1400 (around 180 US\$, 110 Euro) must be paid for accommodation at the research station. Students must buy their own food etc in Springbok (costs of about R 3000, approx. 360 US\$ or 250 Euro/month). Including extras (going out for dinner; shopping), you should expect costs of about 600 US\$ / 450 Euros per month. Students get an invitation letter which they can use to apply for funding in their home country.

Place: The field site is in the Goegap Nature Reserve near Springbok in the North-West of South Africa. The vegetation consists of Succulent Karoo, which has been recognized as one of 25 hotspots of biodiversity. It is a desert to semi-desert with rain mainly in winter (June to September).

When and how long: At the moment we are looking for two volunteers starting in December 2015/ January 2016. Volunteers are expected to stay at least three months, but longer periods of up to 6months are preferred. We are also looking for volunteers for later in 2016.

How to apply? Send a short motivation letter stating why and for which period you are interested and your CV via email to succulent.karoo.research.station@kabelbw.de.

More information under

http://stripedmouse.com/site1_3.5.htm <http://www.youtube.com/watch?v=w6rvF5XrVn0&list=UUd12oFYqs5OobiiKMhDnFtw&index>

Contact via e-mail: succulent.karoo.research.station@kabelbw.de

Succulent Karoo Research Station

a registered South African non-profit organization

Dr. Carsten Schradin (Director)

South Afri

Dr. Carsten Schradin, DR2, <http://www.iphc.cnrs.fr/-Carsten-Schradin-.html>

Video presentation: <https://www.youtube.com/watch?v=vZmAXySr-EM>

Institut Pluridisciplinaire Hubert Curien, Département d'Ecologie Physiologie et Ethologie, 23, rue Becquerel, UMR 7178 CNRS UdS, 67087 Strasbourg cedex 2,

France

Tel: +33 (0)3 88 10 69 19

PD at the University of Zurich, Switzerland,
<http://www.ieu.uzh.ch/research/behaviour/-endocrinology.html>

Honorary Professor at the University of the Witwatersrand, Johannesburg, South Africa

Director of the Succulent Karoo Research Station <http://www.strippedmouse.com>

SSB call student council

The Society of Systematic Biologists Council is inviting nominations for two new graduate student representatives. As a member of the SSB Council you will have the opportunity to participate in the workings of a society and interact with many of the great researchers who are members of the society. Student council members will aid the society in developing initiatives to better serve our student members, will participate in council meetings to provide input, and will engage with student representatives from other societies (e.g. the American Society of Naturalists and the Society for the Study of Evolution) to support joint activities, such as student-oriented events at the Evolution meetings. This year we will elect two representatives: one for a 1-year term and one for a 2-year term. Representatives will assist the selection of new student representatives at the end of their terms. In order to support participation in council meetings which take place at Evolution meetings, the SSB will cover travel costs (e.g., airfare) and one night's accommodation for student representatives. If selected, student representatives are expected to be active members of SSB (student membership is \$25), to attend the annual Evolution meetings, and to serve on the council for their full term (extension into postdoctoral work is fine). If you'd like to join us, please email Stacey Smith (stacey.d.smith@colorado.edu) by Nov. 1st with the subject 'SSB student representative' and attach a single pdf document containing your CV and a short paragraph (less than 1 page) about what you hope to contribute or why you want to be a part of the council. You can visit our website, www.systbio.org, to learn more about the society and its activities.

dewitt832@gmail.com

SSE GouldAward CallForNominations

Gould Award announcement

The Society for the Study of Evolution's Committee for the Stephen J. Gould Award for the Improvement for the Understanding of Evolution is soliciting nominations for the Award for 2016. With this annual award the Society for the Study of Evolution recognizes, promotes, and rewards individuals who have increased public understanding of evolutionary biology and its place in modern science. The award will include a cash prize of \$5,000 and the expectation that the recipient will present the Public Outreach Seminar at the Evolution Meeting (expenses for travel/lodging and registration would be covered by the SSE). The awardee should be a leader in evolutionary thought and in public outreach who can deliver an inspiring lecture for both professionals and the broader public at the 2016 meetings of the Society in Austin, TX. Nominations should include the CV of the nominee along with a 1-2 page letter describing why this individual is worthy of the award. Please send nominations via e-mail to the Chair of the Committee, Louise Mead, at lsmead@msu.edu. Please submit nominees by December 18. All nominations will be treated confidentially and will be evaluated by members of the Committee and the Council for the Society. An awardee will be announced in early February.

Louise S. Mead, PhD Education Director 567 WILSON RD BPS RM 1441 BEACON Center for the Study of Evolution in Action Michigan State University EAST LANSING, MI. 48824-6457 (517) 884-2560

Louise Mead <lsmead@msu.edu>

TansleyMedal PlantEvolution

The New Phytologist Tansley Medal for excellence in plant science. This is a prestigious award for early career plant scientists, with a 2000 (GBP) prize and the opportunity to publish a single-authored short review in New Phytologist. The application deadline for this year's Medal is 30 November 2015. More details on the Medal

can be found at: <http://www.newphytologist.org/-tansleymedal> . Dr Mike Whitfield

Development Coordinator, New Phytologist New Phytologist Central Office, Bailrigg House, Lancaster University, Lancaster, LA1 4YE, UK Tel: + 44 1524 592839; Fax: + 44 1524 594696

www.newphytologist.org Twitter: @NewPhyt Facebook: fb.com/NewPhytologist

The New Phytologist Trust, registered charity number 1154867 2014 Impact factor 7.672

Applications for the 2016 Tansley Medal are now open!

Special and Feature Issues: Evolutionary plant radiations // Eucalyptus genome // Ecology and evolution of mycorrhizas

New Phytologist Symposia 2015/2016 Plant-microbe interactions (Munich, Germany) // Plant developmental evolution (Beijing, China) // Colonisation of the terrestrial environment 2016 (Bristol, UK)

“Whitfield, Michael” <m.whitfield@lancaster.ac.uk>

Teaching Evolutionary Trees

Dear friends,

I am teaching evolution for undergraduate Biology students and I am comparing the students perception about how to construct evolutionary trees.

Does anyone is doing something like that? I would like to discuss results e maybe compare some of them too.

I am also looking for articles about teaching evolutionary trees but there is just a few articles about it!

Thanks!

Prof. Dr. J. C. VOLTOLINI

Grupo de Pesquisa e Ensino em Biologia da Conservação - ECOTROP

Universidade de Taubaté, Departamento de Biologia Taubaté, SP. 12030-010.

E-Mail: jcvoltol@uol.com.br

* Grupo de pesquisa ECOTROP CNPq: <http://dgp.cnpq.br/dgp/espelhogrupo/6541980798150818> * Currículo Lattes:

<http://lattes.cnpq.br/8137155809735635> * Assessoria Estatística: [\[estatistica.blogspot.com.br/\]\(http://estatistica.blogspot.com.br/\) * Fotos de Cursos e Projetos: <http://www.facebook.com/ecotrop> VOLTOLINI <\[jcvoltol@uol.com.br\]\(mailto:jcvoltol@uol.com.br\)>](http://assessoria-</p>
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Ulausanne MasterProj OwlAdaptation

Masters project in The adaptive role of the white plumage coloration in the barn owl (*Tyto alba*)

Duration: 6-8 months Start: Negotiable Location: University of Lausanne, Department of Ecology and Evolution, Le Biophore, 1015, Lausanne, Switzerland

Supervisors: Dr. Luis M. San-Jose (luis.sanjosegarcia@unil.ch)

Project: White animal colourations are often maladaptive given that prey or predators can easily spot them in most natural environments. However, white colorations can be still found in nature when light-coloured backgrounds are available, for instance, in bird predators hunting against a clear sky or in animals living in habitats often covered by snow. Barn owls often exhibit an immaculate white ventral plumage, which is unique among nocturnal birds of prey. However, barn owls hunt and habit in habitats lacking any obvious light background, and the function, if any, of such unusual coloration remains a mystery. Recent findings suggest that the white plumage of the barn owl might have evolved as a unique adaptation to increase hunting success. However, certain aspects of this hypothesis still need to be formally confirmed using field and lab experiments. The successful applicant will conduct both field and laboratory experiments with barn owls and wild rodent species, respectively. The student will learn how to design and conduct experiments in both field and laboratory circumstances and with fully different species as well as to collect and analyse the data. The study will provide new insights into a novel and rare adaptation in the animal kingdom and into the mechanisms that maintain colour variation in this ubiquitous animal species.

References:

Endler Westcott DA, Madden JR, Robson T JA (2005) Animal visual systems and the evolution of color patterns: Sensory processing illuminates signal evolution. *Evolution*, 59, 1795-1818.

Gamble S, Lindholm AK, Endler J a., Brooks R (2003) Environmental variation and the maintenance of poly-

morphism: The effect of ambient light spectrum on mating behaviour and sexual selection in guppies. *Ecology Letters*, 6, 463-472.

Roulin A (2004) The evolution, maintenance and adaptive function of genetic colour polymorphism in birds. *Biological Reviews*, 79, 815-848.

Applicants are encouraged to contact Luis M. San-Jose (luis.sanjossegarcia@unil.ch) for more details. Applications should be followed by a short summary of research interests and motivations and a brief CV.

Luis San José Garcia <Luis.SanJoseGarcia@unil.ch>

ULausanne OwlGenotypePhenotype

Genotype-Phenotype associations in the worldwide distributed

owl family Tytonidae

Introduction: The evolution and maintenance of phenotypic variation is a central question in evolutionary biology. Colour patterns play a relevant role in speciation and adaptation, however it is not often studied at the gene level. Certain species of the Tytonidae family of barn owls vary continuously across continental gradients, in the degree of pheomelanin-based ventral plumage colouration. The Melanocortin System is often targeted in pigmentation studies, given its role in the control of melanin pigment synthesis, and for pleiotropically regulating a number of physiological and behavioural traits in vertebrates. A key MC1R non-synonymous substitution was found in the European population, which corresponds to a valine-to-isoleucine substitution, where individuals carrying the I allele are redder, and homozygote VV individuals are whiter in the ventral area

feathers. Due to their cosmopolitan distribution and striking variation in melanin-based colouration, this family provides a unique opportunity for a worldwide study on the evolution and maintenance of melanin-based pigmentation between populations-subspecies-species, using candidate genes.

Aim: The aims of this project are to: 1) search for candidate genes of plumage pigmentation in birds, and test whether they are associated with the plumage colour patterns observed worldwide in the family Tytonidae; 2) investigate how these genes evolved in the family.

Experimental Approach: You will have to do DNA extractions from tissue, PCR amplification of a number of genes, sequence editing, cloning, phylogenetic comparative analysis and some simple models on R.

Significance: This study will help to understand the adaptive processes involved in the evolution of melanin-based pigmentation.

Supervisors: Vera Uva, Luis San Jose Garcia, and Alexandre Roulin (University of Lausanne).

Contact: vera.uva@unil.ch

References:

Antoniazza, S., Burri, R., Fumagalli, L., Goudet, J. and Roulin, A., 2010. Local adaptation maintains clinal variation in the melanin-based coloration of European barn owls (*Tyto alba*). *Evolution* 64 (7): 1944-1954.

Ducrest, A-L., Keller, L. and Roulin, A., 2008. Pleiotropy in the melanocortin system, colouration and behavioural syndromes. *Trends in Ecology and Evolution* 23 (9): 502-510.

Roulin, A., Wink, M. and Salamin, N., 2009. Selection on an eumelanic ornament is stronger in the tropics than in temperate zones in the worldwide-distributed barn owl. *Journal of Evolutionary Biology* 22: 345-354.

Vera Uva <vera_uva@me.com>

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AuburnU EvolFungalGenomics

Postdoctoral research position in evolutionary fungal genomics

The Coleman laboratory in the Department of Entomology and Plant Pathology at Auburn University is seeking a highly motivated and creative individual for a Research Associate, Research Fellow/Postdoctoral Associate position to investigate the accessory genomic elements of pathogenic fungi [Coleman et al., PLoS Genetics 5: e10000618 (2009) and Ma et al., Nature 464: 367-373 (2010)]. These accessory genomic elements can be represented by entire chromosomes that appear to be dispensable; however are enriched for putative genes

involved in niche colonization and virulence. While the evolutionary origin of these chromosomes is unknown, horizontal gene transfer has been postulated. Currently several fungal genome projects are underway in conjunction with the Joint Genome Institute and the Broad Institute. The selected candidate will use comparative genomics and transcriptomic data to identify genes of interest in clinically and agriculturally relevant *Fusarium* spp. The laboratory uses molecular and genetic approaches to further characterize these traits.

Qualification as a Research Fellow / Postdoctoral Associate requires a Ph.D. from an accredited institution in Bioinformatics, Evolutionary Biology, Genetics, Plant Pathology, Microbiology, or related field. Designation as a Research Associate requires a Master's Degree in the areas listed above. Applicants must be skilled in comparative genomics, phylogenetic analysis, and RNA-seq. The candidate will preferably have experience with molecu-

lar biology techniques. The candidate must be able to work independently with strong problem solving skills, organization abilities, and compose manuscripts for publication. Excellent interpersonal skills and the ability to work as part of a research team are essential. The selected candidate must meet eligibility requirements to work in the U.S. by the start date and continue working legally for the proposed term of employment.

This is a 12 month full-time position, offers a competitive salary and fringe benefits, and is immediately available. The initial appointment is for one year, with the opportunity to extend additional years pending satisfactory performance.

Please attach a letter of application stating your research interests and career goals and curriculum vitae to the on-line application and the contact information for three references. Only complete applications will be considered. Review of applications will begin October 17th, 2015 and will continue until the position is filled. To ensure optimal consideration for the position, applicants are encouraged to submit application materials by October 17th.

Refer to Requisition # 26036 and apply on-line at www.auemployment.com For questions regarding the position, please contact Dr. Jeff Coleman at jjcoleman@auburn.edu.

Jeffrey J. Coleman Assistant Professor Department of Entomology and Plant Pathology Auburn University jjcoleman@auburn.edu

jjc0032@auburn.edu <jjc0032@auburn.edu>

BangorU Bioinformatics Cichlid Speciation

Research Officer - School of Biological Sciences, Bangor University

Bioinformatics - GWAS - Cichlids - Speciation

Applications are invited for a Postdoctoral Research Officer to Prof George Turner to work on a research project "Genome-Wide Analysis of the Evolution of New Species", funded by a Leverhulme Trust grant to Bangor University, with collaborators at Bristol, Cambridge and Edinburgh Universities, and the Wellcome Trust Sanger Institute. This project will investigate the genetic basis of sympatric speciation in cichlid fishes from the crater lakes of southern Tanzania, using full genome sequenc-

ing and genotyping arrays. The successful applicant will be responsible for bioinformatic work with full genome sequence data, designing SNP chips and for statistical analysis of genotype-phenotype associations. He or she will also contribute to the interpretation of the results in the light of evolutionary theory. An additional PDRO has the main responsibility for mate choice and breeding experiments in the aquarium and for morphological and other phenotyping work, as well as basic laboratory molecular genetics.

Applicants should have a PhD in a relevant subject or research area (for example Evolutionary Genetics, Zoology OR Computer Science/Informatics, Applied Statistics; ideally with experience of interdisciplinary research) and with excellent communication, team working and organisational skills.

The successful candidate will be expected to commence on 1st February 2016 (or as soon as possible thereafter). The post is full-time, fixed-term and is available for 20 months. The starting salary will be 1,342.

Informal enquiries may be made to Prof Turner: george.turner@bangor.ac.uk.

Applications will only be accepted via our on-line recruitment website, jobs.bangor.ac.uk. However, in cases of access issues due to disability, paper application forms are available by telephoning 01248 383865. Please submit an up-to-date CV and a completed application form when applying. Job Number: BU01002

Closing date for applications: Sunday 15th November 2015. Interviews will be held late November/early December 2015.

Committed To Equal Opportunities

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a.ford@bangor.ac.uk <a.ford@bangor.ac.uk>

CornellU HumanGeneticVariation

The Koren lab in the Department of Molecular Biology and Genetics at Cornell University (www.amnonkoren.com) studies DNA replication timing and mutagenesis using predominantly genomic approaches. Specific interests include human variation in DNA replication timing, genetic determinants of DNA replication timing, non-random patterns of mutations along the genome, and epigenomics.

The lab has an opening for a post-doctoral fellow with a background in genomics, computational biology, evolutionary biology, genetics or a related field. The major focus is the analysis of genetic variation in human DNA replication timing, and the discovery and analysis of replication timing quantitative trait loci (rtQTLs). This includes, but is not limited to, working with whole-genome DNA sequences of thousands of people; computational analysis of DNA copy number and DNA replication timing; genome-wide association; bioinformatics analysis of patterns of variation and sequence motifs; comparison with external datasets of gene expression, chromatin structure, chromosome conformation, and more; identification of de-novo mutations in whole-genome sequence data; mathematical modeling of mutational and evolutionary dynamics.

This position is fully supported until successful completion.

Required qualifications: Ph.D. in computer science, bioinformatics, computational biology, genetics, or related field, skilled in genomic and sequence data analysis. Experience in the analysis of next-generation sequencing data, genetic variation, genome-wide association studies, QTL analysis, or related disciplines. Knowledge of programming and/or scripting languages such as Matlab, R, C/C++, Python or similar.

To apply, send an email with your CV and a description of interests to: koren@cornell.edu

Amnon Koren, PhD

Assistant Professor Nancy and Peter Meinig Family Investigator in the Life Sciences Department of Molecular Biology and Genetics 349 Biotechnology Building Cornell University Ithaca, NY 14853-2703

koren@cornell.edu www.amnonkoren.com Amnon Koren <koren@cornell.edu>

Atlantic silverside. Through low-coverage whole genome sequencing of fish from the original experiment, we are characterizing the genomic basis for the observed phenotypic changes. The primary task of the postdoc will be to complement these results by examining genomic signatures of natural variation in size-selection across latitudes. Silversides experience a strong cline in natural size-selection across its distribution range, which - despite high levels of gene flow - has caused a high degree of local adaptation in the same traits that evolved in the experiment. The postdoc will use already generated full exome sequence data from four wild populations to search for signatures of natural selection, and will work closely with the PI and collaborator Steve Palumbi at Stanford University to compare these to the signatures of rapid artificial selection in the experiment. There will also be opportunities for involvement in additional field sampling, quantitative genetic analysis, trait mapping or draft genome assembly and annotation, depending on the interests of the postdoc.

Qualifications: A PhD in evolutionary genetics, molecular ecology, bioinformatics or a related field is required. We are looking for a creative and talented scientist with a good publication record and excellent organizational and communication skills. The successful candidate must have a strong computational background and previous experience with analyzing large population genomics data sets. Experience with working in the Unix environment is essential and familiarity with one or several programming languages is highly desirable.

The position will be based in the Department of Natural Resources at Cornell University and is for 18 months, with possibility for extension based on performance and the availability of funding. The start date is Feb 1 2016 or as soon as possible thereafter. Interested candidates should send their CV, a description of their motivation and research interests and contact information for three references to Nina Overgaard Therkildsen (nt246@cornell.edu). Review of applications will begin immediately and continue until the position is filled.

CornellU PopulationGenomics

Postdoc in population genomics of rapid adaptation

The laboratory of Nina Overgaard Therkildsen at Cornell University is looking for a highly motivated postdoc for a project on the genomic basis of rapid life-history evolution. The project is returning to a seminal experiment that demonstrated substantial evolution in growth rate and a suite of correlated traits in response to size-selective fishing over just five generations in the

Emory Evolutionary Theory

I'm looking to hire a postdoc to work on theoretical evolutionary genetics. Potential projects include evolution on fitness landscapes, evolution in spatially distributed populations, and population genomic inference. My group is brand new, so am I also very happy to hire someone to work on other questions and get us started in a new directions. In addition, my colleagues are looking for postdocs in a broad range of fields across theoretical quantitative biology and biophysics, so please forward this announcement to anyone you know who might be interested.

Thank you, Daniel Weissman

Postdoctoral Positions: Theoretical evolution & quantitative biology at Emory University

Applications are invited for multiple Postdoctoral Scientist positions in the new theoretical quantitative biology cluster at Emory University. The groups of Professors Daniel Weissman, Ilya Nemenman, and Gordon Berman constitute the core of the cluster, with additional members within the Departments of Biology, Physics, and others across Emory. The cluster studies a wide range of questions at the interface of physics and biology, with particular focus on evolutionary dynamics, collective information processing in neural and cellular systems, and modeling and quantifying behavior. A successful applicant will have a PhD and a strong publication record in quantitative biology, theoretical physics, computational neuroscience, or a related field. We are particularly interested in candidates with a track record of scientific creativity and independent thinking. Review of applications will begin immediately and will continue until the positions are filled. Please send your CV, a brief description of your research experience and interests, and a list of three references to q-bio-jobs@list.serv.emory.edu.

Emory University is one of the worlds leading research universities, with top-ranked programs in Population Biology Ecology and Evolution, Computational Neuroscience, Biomedical Engineering, and Biophysics. The outstanding School of Medicine and Rollins School of Public Health and the nearby Georgia Institute of Technology provide ample opportunities for collaborations. The hired postdoctoral scientists will benefit from unique resources available at Emory, such as the Center for Disease Control, located on Emory Campus, and the Yerkes Primate Research Center. Emory is located within a

leafy neighborhood in the heart of Atlanta, a major cultural center and transportation hub, which offers high quality of life.

Emory University is an AA/EEO employer.

dbweissman@gmail.com

Frederick Maryland Bioinformatics

Classification: UNCLASSIFIED Caveats: NONE

Postdoctoral / Post-Master's Fellow (Bioinformatics / Metagenomics)

About the USAMRIID Center for Genome Sciences: The US Army Medical Research Institute of Infectious Disease (USAMRIID) is the lead Department of Defense (DoD) laboratory for biodefense research and plays a critical role in protecting the Warfighter and the nation from biological threats. The USAMRIID - Center for Genome Sciences (CGS) hosts the Institute's core capabilities for genomic research and also has a wide-variety of independent research projects. The state-of-the-art research facility includes a wide variety of next-generation sequencing platforms and has access to extensive computational resources. USAMRIID - CGS is highly integrated with several other departments within the Institute (e.g., countermeasure development, diagnostics and vaccine programs), all of which are enhanced by access to excellent BSL-3/4 biocontainment facilities for work with highly infectious bacterial and viral pathogens. Integration of genomics with programs in proteomics, metabolomics and high-content imaging is highly encouraged. These relationships create an ideal environment for interdisciplinary collaboration. USAMRIID is located in Frederick, MD, providing an affordable and fun living environment, with close access to major cities (Washington, DC and Baltimore).

Position Description: USAMRIID - CGS has a fully-funded research opportunity available for a recent master's or Ph.D. graduate to work on projects investigating the microbiome of animal models. This position will focus on developing tools and data analysis pipelines for 16S and metagenomic data from an ongoing investigation into changes in the microbiome associated with exposure to toxicants in a humanized mouse model. The successful applicant for this position will also be responsible for helping to design and build a research program focused on understanding changes in the microbiome of animal models associated with vaccines and

therapeutics.

Qualifications: - Recently obtained master's or PhD in computer science, bioinformatics, microbiology, evolutionary biology, genetics, or a related discipline required. - Proficiency in Python, Perl, or other scripting or coding languages required. - Experience working on the Unix/Linux command line platform required. - Experience working with next-gen sequencing data preferred. - Applicants with previous experience in metagenomics will be prioritized. - The ideal candidate will be highly motivated, creative and exhibit a strong publication record. - US citizenship required.

If interested in discussing further, e-mail Jason Ladner (jason.t.ladner.ctr@mail.mil) and include a CV and a brief description of your research interests.

Jason Thomas Ladner, Ph.D. Center for Genome Sciences USAMRIID Fort Detrick, MD (Tel) : 301-619-8965 (Cell): 650-521-4969 jason.t.ladner.ctr@mail.mil <http://scholar.google.com/citations?user=BERyl5AAAAAJ&hl=en> "Ladner, Jason T CTR USARMY MEDCOM USAMRIID (US)" <jason.t.ladner.ctr@mail.mil>

GeorgeWashingtonU HuamGenomics

Applications are invited for a full-time position as a Postdoctoral Scientist in the Center for Advanced Study of Human Paleobiology at the George Washington University. The position will be based in the Primate Genomics Laboratory and the Laboratory for Evolutionary Neuroscience at GWU, and the interdisciplinary research will entail genomic analyses related to brain, language and cognitive evolution. We seek candidates who have experience with research techniques including bioinformatics, genetics, molecular biology, or histology. The minimum degree required for this position is a PhD.

For more information about the laboratories: <http://www.gwprimategenomicslab.org> <http://cashp.columbian.gwu.edu/laboratory-evolutionary-neuroscience> Evaluation of candidates will begin immediately and continue until the position is filled. Please email the following application materials to Dr. Brenda Bradley (bradleyjbrenda@gwu.edu): (1) cover letter, (2) CV, and (3) names of three people who can be contacted for letters of reference.

The George Washington University is an Equal Oppor-

tunity/Affirmative Action Employer.

Many thanks! Brenda

Brenda Bradley Center for the Advanced Study of Human Paleobiology Department of Anthropology The George Washington University Washington, DC 20052 www.GWPrimateGenomicsLab.org Brenda Bradley <bradleyjbrenda@gmail.com>

GeorgeWashingtonU HumanBrainEvolution

Applications are invited for a full-time position as Postdoctoral Scientist in the Laboratory for Evolutionary Neuroscience at the George Washington University. The postdoctoral scientist will contribute to interdisciplinary research on human brain evolution and the comparative neuroscience of primates. We seek candidates who have experience with research techniques including histology, genetics, molecular biology, MRI-based morphometry, or phylogenetic analysis. The minimum degree required for this position is a PhD.

For more information about the laboratory - <http://cashp.columbian.gwu.edu/laboratory-evolutionary-neuroscience> Evaluation of candidates will begin immediately and continue until the position is filled. Please email the following application materials to Dr. Chet Sherwood (sherwood@gwu.edu): (1) cover letter, (2) CV, and (3) names of three people who can be contacted for letters of reference.

The George Washington University is an Equal Opportunity/Affirmative Action Employer.

"sherwood@email.gwu.edu"
<sherwood@email.gwu.edu>

Georgia Tech EvolutionaryMicrobiology

The Brown lab is recruiting, with new postdoc and grad student positions available as part of an August move to the Georgia Institute of Technology.

I am interested in candidates with experience in computational and/or experimental approaches that are

relevant to the study of microbial dynamics, and with interests overlapping with the following themes:

* research themes Bacterial sociality, cooperation, decision-making, quorum-sensing, biofilms, microbiomes, HGT, pathogen emergence, virulence, resistance, novel therapeutics (and ecology/evolution of all the above).

* Computational - I am interested in candidates with experience in statistical modeling and bio-informatics in an ecological/evolutionary context. Simulation and analytical approaches are also of interest, if coupled with experience of biological applications ideally in microbiology/ecology/evolution.

* Experimental - I am interested in candidates with strong backgrounds spanning molecular microbiology and ecology/evolution. Experience with *Pseudomonas aeruginosa*, quorum-sensing, regulatory evolution or mobile genetic elements is a plus.

To learn more, take a look at our website (biology.gatech.edu/people/sam-brown) and recent relevant publications:

* Estrela S, Whiteley M, Brown SP. 2015. The demographic determinants of human microbiome health. *Trends Microbiology* 23, 134-141.

* McNally L, Viana M, Brown SP 2014. Cooperative secretions facilitate host range expansions in bacteria. *Nature Communications*. 5, 4594.

* Cornforth D et al 2014 Combinatorial quorum-sensing allows bacteria to resolve their social and physical environment. *PNAS* 111, 4280-4284.

* Allen R et al 2014 Targeting virulence: can we make evolution-proof drugs? *Nature Reviews Microbiology* 12, 300-308.

* Dimitriu T, et al (2014) Genetic information transfer promotes cooperation in bacteria. *PNAS* 111, 11103-11108.

To apply, please email a CV, brief description of research interests and how they relate to Brown lab themes (1 page) and the names and contact info for at least 3 references to Sam Brown (sam.brown@biology.gatech.edu). Review of applications will begin immediately and continue until positions are filled. Start dates are flexible, with preference for early 2016.

-

Georgia Institute of Technology

+1 404 385 4506

sam.brown@biology.gatech.edu

<http://www.biology.gatech.edu/people/sam-brown>
NEW! PhD Program in Quantitative Biosciences, [\[/qbios.gatech.edu\]\(mailto:sam.brown@biology.gatech.edu\) "sam.brown@biology.gatech.edu"
<\[sam.brown@biology.gatech.edu\]\(mailto:sam.brown@biology.gatech.edu\)>](http://-</p>
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GeorgiaTech MicrobialGenomics

Postdoc in Environmental Microbiology and Genomics

The Stewart and DiChristina labs at Georgia Tech are looking for a postdoctoral fellow to study the diversity, physiology, and evolution of metal reducing bacteria. The postdoc will work jointly with Drs. Stewart and DiChristina in the School of Biology. The work will involve collections at marine and freshwater field sites in the US, laboratory experiments, and a blend of bioinformatic, molecular, and physiological analyses. Research tasks will involve both culture-dependent and independent methods, with the latter focused on comparative analysis of meta-omic datasets to identify communities and pathways of metal reducers in the environment. The postdoc will be encouraged to develop independent lines of research within the broader goals of the project, and will work collaboratively with Dr. Stewart, Dr. DiChristina, and graduate students to perform research and synthesize results for publication.

The ideal candidate will be enthusiastic, motivated by experimental and analytical challenges, and proficient in bioinformatics and molecular microbiology techniques. Candidates should have a Ph.D. focusing on environmental microbiology or bioinformatics (or a related topic). Knowledge of metal geochemistry and microbial evolution is highly desirable.

The School of Biology at Georgia Tech is a dynamic research environment with a strong core of researchers interested in marine systems, microbiology, and genomics. The Institute offers exceptional resources for bioinformatics and high-performance computing, and exciting opportunities for cross-departmental collaboration with computational scientists and earth and atmospheric scientists. Georgia Tech was recently voted one of the best places to work, and Atlanta is consistently ranked among the top ten places to live for young professionals.

This position begins in fall/winter 2015/2016. Funding is available for at least one year, with continuation contingent upon satisfactory progress in year one; applicants should express their ability to commit to the project for at least two years. Application materials should be emailed to Frank Stewart at frank.stewart@biology.gatech.edu and should include a cover letter (describing your interest in the position,

work experience, and availability), CV, and contact information (name, email, phone number) for at least three references. Please include the word “Postdoc” in the subject line. Salary will be competitive and commensurate with experience and will include fringe benefits. Review of applications will begin on October 31 and continue until the position is filled.

Informal inquiries about the position can be sent to Frank Stewart at frank.stewart@biology.gatech.edu. Additional details about the Stewart lab can be found at <http://marine-micro.biology.gatech.edu/> Georgia Tech is a unit of the University System of Georgia and an Affirmative Action/Equal Opportunity Employer and requires compliance with the Immigration Control Reform Act of 1986.

– Frank J. Stewart, Ph.D. Assistant Professor School of Biology Georgia Institute of Technology ES&T building, office #1242 311 Ferst Drive Atlanta, GA 30332-0230 office: 404-894-5819 www.fjstewart.org “frank.stewart@biology.gatech.edu”

ImperialCollegeLondon MicrobialDispersal

Postdoctoral position: Impact of dispersal on soil microbial ecology and evolution

A postdoc position is available at Imperial College London (Silwood Park Campus) in the lab of Dr Thomas Bell to understand how microbes disperse across landscapes. Previous work in the group has shown that microbes have distinct biogeographical patterns (e.g. *Science*, 2005, 308: 1884), and that dispersal plays a major role in determining local community composition (e.g. *ISME Journal*, 2010, 4:1357). The project will look at how dispersal affects the distribution and abundance of microbial genes and species, and will focus in particular on how microbes spill across habitat boundaries (e.g. *Ecology Letters*, 2006, 9:603). The research will focus on agricultural intensification as one key driver of soil microbial community spillover.

The research will use three complementary approaches. First, it will look at dispersal across miniature landscapes in laboratory microcosms. Second, it will track dispersal across plot boundaries in long-term field experiments. Finally, it will conduct field surveys across habitat boundaries to look at patterns under natural conditions. The research will focus on the bacterial

component but with the potential to extend to other microbial groups. The research will include a combination of culture-based and molecular ‘omics approaches, and will inform and benefit from theory relating to source-sink dynamics.

The position is funded by a NERC grant awarded to Dr Thomas Bell, Professor Jason Tylianakis, and Professor Mick Crawley. The successful applicant will join a large microbial ecology group at the Silwood Park Campus. There is also the exciting opportunity to interact with project partners Professor Bob Holt (University of Florida), Dr Noah Fierer (University of Colorado), and Dr Rob Griffiths (CEH Wallingford).

You must have a PhD (or equivalent) in ecology, evolution, microbiology, or a closely related discipline. A strong background in conducting field or laboratory experiments using soil microbes and a strong background in community ecology are essential. You must also have experience with ‘omics approaches to microbial surveys. While not essential, experience with flow cytometry, soil functional measurements (e.g. respirometry, enzyme assays), and isolating bacteria or other microbes from natural environments, would be an advantage.

You must have excellent verbal and written communication skills, and be able to write clearly and succinctly for publication. You must also be able to relate well with others, form positive relationships with a wide range of people and to work as part of a team, as well as independently. The ability to develop and apply new concepts and have a creative approach to problem-solving will be required.

This is a full-time, fixed-term position and is available until 28 December 2018.

Our preferred method of application is online via our website <http://www3.imperial.ac.uk/employment> (please select “Job Search” then enter the job title or vacancy reference number including spaces - NS 2015 202 JT into “Keywords”). Please complete and upload an application form as directed.

Alternatively, if you are unable to apply online, please contact Mrs Christine Short on 020 7594 2276 or email c.j.short@imperial.ac.uk to request an application form.

Salary: à³,860 to à²,830 (maximum starting salary à³,860 per annum)

Closing date: 16 November 2015 (midnight GMT)

For further information on research currently being undertaken in the Bell lab, visit: <https://-bellmicrobelab.wordpress.com/> Dr. Thomas Bell Imperial College London Silwood Park Campus Buckhurst Road, Ascot, Berkshire, SL5 7PY

thomas.bell@imperial.ac.uk
<https://bellmicrobelab.wordpress.com/> +44 (0)20 7594 2268

“thomas.bell@imperial.ac.uk”
 <thomas.bell@imperial.ac.uk>

ImperialCollege MosquitoEvolution

Hello,

I have recently received funding for a 3 year postdoc position working on the role of acoustics in the mating behaviour of mosquitoes. The position could begin as early as Jan 1 2016 and is based at Imperial’s Silwood Park Campus in Ascot, UK with fieldwork in Thailand. The postdoc will work closely with myself and collaborators, Laura Harrington (Cornell University) and Alongkot Ponlawat (AFRIMS-Bangkok).

Specific job specs and application information can be found at

<https://goo.gl/C3w0yV> Potential candidates are encouraged to contact me directly if they have any questions about the project or the position.

Cheers,

Lauren

l.cator@imperial.ac.uk

“Cator, Lauren J” <l.cator@imperial.ac.uk>

London GenomicsHoneybeeCommunication

Postdoctoral Research Assistant, Department of Biological Sciences, Royal Holloway University of London.

Salary: £33 476- £39 528 pa (fixed term for three years)
 Start date: 1st February 2016 or soon thereafter

We are looking for a highly motivated individual to join the research group of Dr. Elli Leadbeater as a Postdoctoral Research Assistant. We are interested in the molecular biology of animal cognition, and the successful candidate will work on an ERC-funded research project on gene expression during communication in

the honeybee *Apis mellifera*. You will be responsible for behavioural experiments in the apiary, wet lab work involving DNA and RNA extractions, and analysis of both behavioural and bioinformatics data arising from the project. You will work closely with other members of the research team, including postdoctoral researchers, technicians and beekeepers, and external project partners Dr. Seirian Sumner (University of Bristol) and Dr. Yannick Wurm (Queen Mary University of London). As this is a new project, you will also be heavily involved in the piloting of experimental techniques and setting up/management of the apiary. All experimental work will be based at Royal Holloway, but the post holder will be expected to travel to other locations within the UK to undertake training as necessary.

The successful candidate will have a PhD in Biology (it is acceptable to be in the final phase of a PhD programme), with a strong publication record in peer-reviewed journals, and experience of presenting at international conferences. You will have a strong background in molecular approaches to the study of animal behaviour. Proven competence in RNA and DNA wet-lab work is essential, and experience of behavioural research involving live animals (especially insects) is highly desirable. Competency in bioinformatics is not essential but would be a strong advantage, including programming ability (e.g. Perl+, R, Python). The post holder is expected to be familiar with statistical approaches to data analysis in behavioural research.

This is a full time, fixed-contract post, available for 3 years. The post is based in Egham, Surrey, where the College is situated in a beautiful, leafy campus near to Windsor Great Park and within commuting distance from London.

For an informal discussion about the post, please contact Dr. Elli Leadbeater on Elli.Leadbeater@rhul.ac.uk

To view further details of this post and to apply please visit <https://jobs.royalholloway.ac.uk/-vacancy.aspx?ref=3D1015-306>. The Human Resources Department can be contacted with queries by email at: recruitment@rhul.ac.uk <<http://www.rhul.ac.uk/-Personnel/JobVacancies.htm>> or via telephone on: +44 (0)1784 41 4241.

Please quote the reference:1015-306

Closing Date: Midnight, 10th November 2015

Interviews will take place in early December 2015

We particularly welcome female applicants as they are under-represented at this level in the Department of Biological Sciences within Royal Holloway, University of London.

Dr. Elli Leadbeater elli.leadbeater@rhul.ac.uk School of Biological Sciences Royal Holloway, University of London Egham TW20 0EX

+44 (0)1784 443547 +44 (0)7901 918423

“Leadbeater, Elli” <Elli.Leadbeater@rhul.ac.uk>

MichiganStateU AquaticEvolutionaryEcol

Postdoctoral Position: Aquatic Evolutionary Ecology

Description: The Scribner lab in the Department of Fisheries and Wildlife at Michigan State University invites applications for the position of Post-doctoral Research Associate. The successful candidate would work with PIs and university and agency colleagues to develop and screen genomic (RAD-seq) libraries and to develop SNP and apply eDNA markers associated with several aquatic invasive species in Michigan waters of the Great Lakes and tributaries. This position is an eighteen month appointment with potential for additional support contingent on performance and funding. Further opportunities exist for analysis and publication of data from other ongoing projects.

Qualifications: Applicants must have a PhD degree in Genetics, Evolutionary Biology or allied fields with demonstration of experience and skill in development and screening of genomic libraries, and next generation sequence manipulation methods. Additional bioinformatics skills and experience with programming languages including Unix and Perl, and applications of statistical tools and software associated with study design, data filtering, and genotype calling would be desirable.

Salary: \$42,000 and health benefits.

Start Date: Expected start date is February 1, 2016.

Applications: Application materials and further information can be obtained through. Applications for this position can be made through the Michigan State University Human Resources office via the link <https://jobs.msu.edu> and then look for posting 2211. Contact Dr. Kim Scribner, Department of Fisheries and Wildlife and Department of Integrative Biology, Michigan State University. Tel: (517)-353-3288; email: scribne3@msu.edu for further information. Review of applications will begin November 20, 2015 and continue until the position is filled.

“scribne3@msu.edu” <scribne3@msu.edu>

Montpellier CancerResistanceEvolution

Post-doc position in Montpellier on cancer resistance in wildlife species

Cancer is a disease associated with clonal evolution and cell competition within the body and appeared with the transition to multicellularity more than half a billion years ago. Assessing natural selection in human populations is challenging, but indications of how it may have moulded human cancer incidence can be assessed by exploring the rules that govern incidences of cancers in wildlife species. Specifically, we need to understand the mechanisms underlying the so-called “Peto’s paradox” the absence of a correlation across species between cancer and body size & longevity. Understanding how large, long-lived species overcome the burden of cancer can indeed provide critical insights into the identification of processes that prevent carcinogenesis.

The objectives of EvoCan project, funded by the Agence Nationale de la Recherche (www.agence-nationale-recherche.fr) are to understand the evolutionary causes of Peto’s paradox by exploring the relevance of several novel hypotheses. The project builds on the research program of the recently created CEECR Institute (Center for Ecological and Evolutionary Cancer Research, <http://www.creec.fr>) in Montpellier. During the first steps of this project, a large collection of unique datasets has been collected, both at the inter-species and at the intra-individual scales, which will represent an intriguing opportunity to address this scientific question.

Within this context, we are seeking for a post-doctoral fellow who will focus on theoretical modeling of Peto’s paradox based on the datasets collected. The ideal candidate, supervised by Dr Benjamin Roche and Dr Frédéric Thomas, will be broadly trained in ecology and evolutionary biology (PhD or equivalent degree required), with strong expertise in theoretical modeling, possibly with probabilistic methodology (branching process) and/or Individual-Based Modeling. Prior research experience on processes shaping cancerogenesis would be greatly appreciated. This position is for 12 months, with a possibility of an extension to 18 months, starting ideally in early 2016, in MIVEGEC lab in Montpellier (www.mivegec.ird.fr).

Interested candidates should apply by December 15th by sending (1) a letter of motivation, (2) a CV with

publication list, and (3) the names, institutions and email addresses of three references to Dr. Benjamin Roche at benjamin.roche@ird.fr.

– Benjamin Roche, PhD

Labs: International Center for Mathematical and Computational Modeling of Complex Systems (UMMISCO) Infectious Diseases: Vector, Control, Genetic, Ecology and Evolution (MIVEGEC) Centre for Ecological and Evolutionary Research on Cancer (CREEC)

Postal address: Research Institute for Development (IRD) 911, avenue Agropolis BP 64504 34394 Montpellier Cedex 5 France

Phone:+33629585460 e-mail:roche.ben@gmail.com web:
<http://roche.ben.googlepages.com> Benjamin Roche
<roche.ben@gmail.com>

Montpellier ViralEvolution

We are seeking post-doc candidates to work on the adaptive mechanisms developed by a virus transmitted by insects, Bluetongue virus, to facilitate switches between mammals and insect hosts. The successful candidate will conduct analysis of viral populations sampled at the successive steps of the transmission chain. This project implies the bioinformatic analysis of NGS data generated in the lab as well as experimental evolution of viral populations in cell culture. We will consider candidate able to conduct both approaches as well as those autonomous in one and willing to develop their skills in the other. The candidate will work in our fully equipped labs in Montpellier - South of France, home of a vibrant scientific community - in a new and dynamic structure within the CMAEE research unit (<http://www.cirad.fr/en/research-operations/research-units/control-of-emerging-and-exotic-animal-diseases>).

Funding is dependent on a grant from a funding scheme the candidate must apply for (see <http://www.agreenskills.eu>). This grant provides a very competitive salary (over 3 000 EUR per month) in French standards. If interested, please check on the Agreenskills web site whether you are eligible before contacting us (<https://www.agreenskills.eu/Applications/-Eligibility-requirements>). Most notable, a main requirement is not to have spent more than 12 months in France within the last 3 years prior to the expected date of recruitment (around February 2016). The deadline for application is 19th November but an on-line eligibility

check is required before application submission.

Contacts: Serafin Gutierrez (serafin.gutierrez@cirad.fr)
Etienne Loire (etienne.loire@cirad.fr)

Etienne Loire Research scientist Bioinformatic & Evolution CMAEE Unit - Control of Exotic and Emerging Animal Diseases CIRAD TA-A15/G, Campus International de Baillarguet (bureau G 251) 34398 Montpellier Cedex 5 France tél:+33 4 67 59 38 34

[etienne loire <etienne.loire@cirad.fr>](mailto:etienne.loire@cirad.fr)

MPIJena Germany PopulationGenetics

Call for a postdoctoral researcher in population genetics

Summary. The Max Planck Institute for the Science of Human History in Jena (Germany) is offering a position for a full-time postdoctoral researcher in the field of population genetics. The position is tied to the Eurasia3angle research group. Funded by an ERC Consolidator Grant, this interdisciplinary group will work on Millet and beans, language and genes. The origin and dispersal of the Transeurasian family. The position is for 4 years, beginning between April and September 2016. Candidates need to have completed a PhD and be familiar with model-based approaches. If interested, please send the application documents specified below to the group's principal investigator, Martine Robbeets (robbeets@shh.mpg.de) by January the 1st, 2016.

Project description. The overarching research topic of the eurasia3angle project is the question about the origin and dispersal of the Transeurasian languages, i.e. the Japonic, Koreanic, Tungusic, Mongolic, and Turkic languages. The key objective is to integrate linguistic, archaeological and genetic evidence in a single approach, for which the term Triangulation is used. The intended genetic analyses will examine whether the genetic relationships among Japanese, Korean, Tungusic, Mongolic and Turkic populations are closer to each other than those between Transeurasian and non-Transeurasian groups. We wish to combine genome-wide analyses of autosomal single nucleotide polymorphisms with uniparental analyses of mitochondrial and Y-chromosomal DNA in a model-based approach. We intend to start from publically available data. Unless there is no other option available, we do not plan additional laboratory work. It is our objective to bring the genetic evidence together with the findings obtained from linguistics

and archaeology. Given the fact that a synthesis between the three disciplines is still in its infancy, we intend to work out a consistent methodology of triangulation. For more information on the project please visit our project website http://www.shh.mpg.de/102128/-eurasia3angle_group Profile Applicants should have completed a PhD in the field of population genetics or a related field such as molecular anthropology or evolutionary biology and have experience with model-based approaches. Since the postdoctoral population geneticist will closely cooperate with archeologists and linguists she/he must be able to make her/his field accessible for scholars from other disciplines. She/he can present her/his own work and discuss that of others fluently in English and is prepared to work in an international team. Moreover, she/he is open to co-supervise doctoral students in interdisciplinary linguistics. The Max Planck Institute for the Science of Human History welcomes candidates of all nationalities and encourages women to apply. The Max Planck Society is committed to promoting disabled candidates. For supplementary information on the vacancy and the project please contact Dr. Martine Robbeets robbeets@shh.mpg.de

Salary. Salary will be based on the German pay scale for public employees, depending on experience.

How to apply. Please submit the following documents by January the 1st, 2016 to robbeets@shh.mpg.de

(i) a letter of motivation detailing how you meet the qualifications (max. 500 words) (ii) a brief research proposal specifying how you could contribute to this project (max. 1000 words) (iii) a curriculum vitae indicating educational background, previous research experience and publication history. (iv) a copy of your PhD dissertation (v) contact information for three references (vi) recommendation letters from three referees sent directly from the referee to Martine Robbeets

Short-listed candidates will be informed by early March and interviews with top-listed candidates are expected to take place in the weeks thereafter. The successful candidate can start between April and September 2016.

Martine Robbeets Max-Planck-Institut für Menschheitsgeschichte Department of Linguistic and Cultural Evolution Kahlaische Strasse 10, room 022 07745 Jena Germany robbeets@shh.mpg.de http://www.shh.mpg.de/100886/eurasia3angle_group?seite=CF martine <martine.robbeets@hotmail.com>

Nanjing Digital Evolution

Nanjing Agricultural University, Nanjing, China. Digital Ecosystem Evolution

A postdoctoral position in digital evolution is available in Gabriel Yedid's lab at Nanjing Agricultural University, Nanjing, Jiangsu Province, China, for a minimum period of 21 months. The postdoctoral researcher will be involved in the development and implementation of methods for studying the evolutionary and ecological dynamics of multispecies communities of digital organisms using the Avida digital evolution software platform (<http://avida.devosoft.org>). Avida is a digital research platform for conducting and analyzing experiments with self-replicating and evolving computer programs. It provides detailed control over experimental settings and protocols, a large array of measurement tools, and sophisticated methods to analyze and post-process experimental data. The researcher will lead development and analysis in an exciting cutting-edge project using digital ecosystems to study evolution of resource sensing, movement, community formation and relocation in spatially and temporally heterogeneous environments. Development will focus primarily on modification of the Avida source code to implement new features and methods specifically for this project. Development and implementation of methods for analyzing the resulting data may also be required. The project is funded by the National Science Foundation of China. The candidate should ideally have the following qualifications: – a PhD in computer science or computational biology – strong competency in C++ programming – highly fluent with object-oriented paradigm in programming – competency in Unix-like environments, especially Linux – good English communication skills are **essential** (although the institution is in China, the working language of the lab is English) The candidate should also preferably have: – background in computational biology, evolutionary biology, ecology, or genetics – experience with evolutionary research, or at least familiarity with evolution as a subject – experience with a scripting language for data processing and analysis – competency in version control, especially with Git Candidates must have a PhD in order to apply. Interested applicants should submit: – a cover letter describing your research interests and background – a CV – evidence of programming experience – contact information for three references as well as any enquiries about the position, to Gabriel Yedid at gyedid03@yahoo.com. The start date

is flexible, but preferably sometime in February 2016. In addition to salary, faculty housing, a medical and a social care plan will be provided. Please don't forget to mention EvolDir when applying.

Gabe Yedid <gyedid03@yahoo.com>

New York University 2 Plant Systems Biology

1.) Post-doctoral Position in Plant Systems Biology

New York University Center for Genomics and Systems Biology

A post-doctoral position at NYU's Center for Genomics and Systems Biology - in the laboratory of

Dr. Gloria Coruzzi - is available as part of our NSF Plant Genome Grant entitled: NutriNet: A network inspired approach to improving Nutrient Use Efficiency (NUE) in crop plants.

The successful applicant will have skills and experience in Genomics and Bioinformatics. The position will require both experimental and computational skills for the generation and analysis of NextGen datasets. Skills in R, Perl, Python or other programming language are strongly preferred. This position also includes Project Management duties, which involve coordinating scientific activities at two participating institutions; organizing group meetings, writing grant reports, paper writing and communicating our work in conferences and meetings.

This project involves the collaboration of plant systematists, molecular biologists, genome scientists and bioinformaticians. PI: Gloria Coruzzi (PI), NYU, Center for Genomics & Systems Biology; Dennis Shasha (co-PI) NYU, Courant Institute of Mathematical Sciences; & Stephen Moose (co-PI) U. Illinois, Urbana-Champaign, Institute for Genomic Biology.

Overview: Recent advances in genome sequencing, functional genomics, and computational tools enable a systems-level understanding of key physiological and developmental processes in the model plant *Arabidopsis*, but translating this knowledge to enhancing agriculturally important phenotypes in crop species remains challenging. The goal of our NutriNet project is to develop network-connected modules in crops- exploiting *Arabidopsis* network knowledge - that are predictive of phenotypic variation and enhance the efficiency of genetic gain in crop species, using nutrient use efficiency

(NUE) of maize as the target trait. Four aims are proposed to achieve these goals. First, new and existing data for nutrient-responsive gene expression profiles will be integrated with phenotypic variation for NUE to develop a training set that exploits the power of genetic diversity from both *Arabidopsis* (Coruzzi, NYU) and maize (Moose, Illinois). Second, a split-root experimental design combined with RNASeq (Coruzzi) will identify *Arabidopsis* and maize genes that function in root-shoot N-signaling and that control root foraging for nutrients. The third aim is to construct the NutriNet for maize (Coruzzi/Shasha, NYU), which will be combined with *Arabidopsis* network knowledge to define network modules predictive of NUE traits. NutriNet modules will be validated using left-out data and tests of predictive ability in genotypes outside of the initial training set. Finally, information derived from NutriNet modules will be used to select individual genotypes that possess optimal NutriNet configurations from diverse germplasm pools, which will then be evaluated for improved NUE traits in the lab (*Arabidopsis*) and field (maize). A comparative analysis of lab-to-field results will directly assess the translation of knowledge from *Arabidopsis* to cereal crops.

The Coruzzi lab

Coruzzi lab web page: <http://coruzzilab.bio.nyu.edu/>
Coruzzi Biology Faculty web page: <http://-biology.as.nyu.edu/object/GloriaCoruzzi.html> is located in the historic and vibrant Greenwich Village in downtown Manhattan in New York City. NYU is one of the world's leading research universities and its Center for Genomics and Systems Biology is housed in a new, state-of-the-art facility with 14 faculty members who study Genomics and Systems Biology across all kingdoms of life. For more information on our Genome Center, please go to <http://cgsb.as.nyu.edu> Please send cover letter, resume and 3 letters of reference by email to: coruzzi.lab.nyu@gmail.com

Please mark the subject line of your e-mail: NutriNet Post-doc

Coruzzi Lab

New York University Center for Genomics and Systems Biology

12 Waverly Place, New York, NY 10003

2.) Post-doctoral Position in Plant Systems Biology & Evolutionary Genomics

New York University Center for Genomics and Systems Biology

A post-doctoral position at NYU's Center for Genomics and Systems Biology - in the laboratory of Dr. Gloria

Coruzzi - is available as part of our newly awarded 5 year DOE Grant entitled: EvoNet: A phylogenomic and systems biology approach to identify genes underlying plant survival in marginal, low-N soils.

The successful applicant will have skills and experience in Genomics, Bioinformatics and Phylogenetics. The position will include experimental/informatic analysis on NextGen datasets (e.g. overseeing laboratory work, planning, leading and conducting analyses on RNASeq data). Skills in R, Perl, Python or other programming language are

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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/evoDir.html>

Norway NTNU DaphniaQuantitativeGenetics

The Postdoc will join a team that studies various aspects of temperature effects on organisms. Current activity is funded by two Norwegian Research Council projects and one Marie Curie fellowship, and we are members of the Centre for Biodiversity Dynamics, which is a Centre of Excellence. Our recently established lab uses the zooplankton *Daphnia* as a model organism, and topics of interest include phenotypic plasticity (within and across generations) and genetic variation in thermal reaction norms. Focal phenotypic traits include metabolism, somatic growth, reproduction, feeding rates, growth efficiency and lipid storage. Our experimental facilities are located at Realfagbygget, NTNU, Trondheim. In addition to standard laboratory equipment, the experimental facilities include several rooms with temperature regulation in addition to a climate lab for simultaneous observations of *Daphnia* performance at 12 different temperature regimes, respirometry and microscope equipment, particle counter and fluorescence plate reader. The main responsibility of the Postdoc will be to conduct experimental studies of population dynamics under different thermal regimes, to link those results to observed variation in phenotypic traits at the individual- and genotype-level, and to interpret the results in the theoretical framework of quantitative genetics and population dynamics.

For full announcement see: <http://www.jobbnorge.no/-ledige-stillinger/stilling/118187/postdoc-position->

in-evolutionary-ecology Sigurd Einum Professor, Centre for Biodiversity Dynamics, Department of Biology, Norwegian University of Science and Technology, <http://www.ntnu.no/ansatte/sigurd.einum>, <https://www.facebook.com/Climate-Daphnia-265765213575339/timeline/> sigurd.einum@ntnu.no

OregonStateU EvolutionaryGenetics SalmonMateChoice

Postdoctoral Research Position in Evolutionary Genetics of Mate Choice among Salmon

Research Associate (Post Doc) holds a leadership role among a larger research team comprised of Oregon State University (OSU), Oregon Department of Fisheries and Wildlife (ODFW), Northwest Fisheries Science Center (NWFS, NOAA) and Abanathy Fish Technology Center (USFWS) partners involved in cooperative research that specializes in defining mechanisms that may create differences between hatchery and wild salmonids, recommending strategies to manage those differences while meeting fishery and conservation objectives, and educating Oregonians on the role and performance of hatcheries in supporting and protecting Oregon's native fish and fisheries.

The primary responsibility of this position is to perform genomic analysis on an established coho salmon pedigree to determine if observed differences between hatchery and wild fitness (as assessed from full lifetime relative reproductive success) can be explained by additive and/or non-additive effects of mate selection. Hatcheries in Oregon randomly mate male and female fish to avoid bias. If offspring survival differences can be associated with successful mate selection in the wild, then being able to understand that selection and mimic it in the hatchery could lead to hatchery fish (with better reproductive success) having a lower risk to wild populations from interbreeding. Initial research goals will determine if mate selection is important to offspring survival by genomic examination of pairings of WildxWild, WildxHatchery and HatcheryxHatchery coho salmon from Calapooya Creek whose success at producing offspring is known. If analyses demonstrate that most successful matings can be associated with specific multi-locus genetic combinations observed among most successful mate pairs, then genetic markers for relevant traits will be identified and methods to rapidly identify them developed. These rapid identification methods will then be applied to de-

fine mating combinations among wild and/or hatchery fish in a hatchery. Relative reproductive success in the wild of these fish will be compared with reproductive success of normal, random hatchery matings to determine if 'wild-fish-like' targeted mating in the hatchery reduces the loss of reproductive success for hatchery fish, and the impact of current hatchery practice on wild populations. Overall results of this research may lead to new procedures for mating fish in a hatchery program that can reduce the risk hatchery fish have on wild populations.

To Apply: See: https://jobs.oregonstate.edu/applicants/jsp/shared/position/-JobDetails_css.jsp?postingId=3D429304 Posting number: 0016312

Closing date: 06-Nov-2015

Informal Enquiries: Michael Banks
michael.banks@oregonstate.edu

Michael A. Banks Director, CIMRS Professor, Marine Fisheries Genetics & Conservation Coastal Oregon Marine Experiment Station, HMSC Department of Fisheries and Wildlife, OSU 2030 SE Marine Science Drive, Newport, Oregon 97365 Landline: 541-867-0420 Cell 541:272-7057 <http://hmsc.oregonstate.edu/cimrs> "Banks, Michael" <michael.banks@oregonstate.edu>

PennsylvaniaStateU EvolutionaryGenetics EvoDevo Mimicry 2

A postdoc position is available in the lab of Heather Hines (hineslab.org, hmh19@psu.edu) in the Department of Biology at The Pennsylvania State University, University Park, PA. The postdoc will work on an NSF-funded project developing a new system for evolutionary genetics through investigating the genetic basis of mimetic color diversity in bumble bees. This project involves targeting the genes for color variation and examining their evolution across the bumble bee radiation. The postdoc will also be involved in functionally validating the role of these genes using expression assays and new genetic technologies. This project will be performed in collaboration with Jeff Lozier from the University of Alabama (<http://bama.ua.edu/~jlozier>) and training will further be facilitated through interactions with faculty that are part of several reputable programs at Penn State (e.g., Bioinformatics and Genomics, Entomology,

Molecular and Cellular Integrative Biosciences, Ecology, Biology). Applicants must have a PhD in the biological sciences, should be creative and independent, have a good publication record, and have a demonstrated passion for evolutionary research. The ideal candidate would have experience in several of the following fields: entomology, evolutionary genetics, evo-devo, genomics, bioinformatics, population genomics, systematics, and developmental biology. Postdoc development of their own related research projects is encouraged. The Pennsylvania State University requires all applicants to register and complete the application form at the Penn State employment website at <https://psu.jobs/job/60148>. A complete application will include a cover letter detailing relevant experience and research interests, a current CV, and contact information for three professional references. This is a fixed-term appointment funded for one year from date of hire with excellent possibility of re-funding. Anticipated start date is January 2016 or as soon as possible thereafter. Review of applications will begin immediately and continue until the position is filled.

CAMPUS SECURITY CRIME STATISTICS: For more about safety at Penn State, and to review the Annual Security Report which contains information about crime statistics and other safety and security matters, please go to <http://www.police.psu.edu/clery/>, which will also provide you with detail on how to request a hard copy of the Annual Security Report.

Penn State is an equal opportunity, affirmative action employer, and is committed to providing employment opportunities to all qualified applicants without regard to race, color, religion, age, sex, sexual orientation, gender identity, national origin, disability or protected veteran status.

Heather Hines <hmh19@psu.edu>

PennsylvaniaStateU EvolutionaryGenomics

The Assis lab (<http://www.personal.psu.edu/rua15/-index.html>) at Penn State is recruiting a highly motivated postdoctoral scholar. The position requires a Ph.D. in biology, genetics, bioinformatics, or a related field.

Our lab uses computational approaches to study the origin of genotypic and phenotypic innovation. We are broadly interested in a number of problems in evolu-

tionary genomics. One current focus of our research is on gene duplication, which is a major contributor of new gene functions. Potential projects related to gene duplication include examining the role of natural selection in the origin of new functions, elucidating the genic and functional targets of natural selection, comparing functions that arise under different evolutionary scenarios, and applying mathematical models to study gene expression evolution. There are also opportunities to study the origin and evolution of small RNAs, enhancers, and other noncoding functional elements in the genome.

The above lists only serve as examples, and candidates interested in alternative research projects in evolutionary genomics are encouraged to apply. Because our lab is solely computational, candidates should have knowledge of at least one programming language and experience using a Unix or Linux environment.

If you are interested in joining the lab, please email Raquel Assis (rassis@psu.edu) a current CV, copies of three representative publications, and a description of your research interests.

In addition, Penn State requires all applicants to register and complete the application form at the Penn State employment website at < https://app2.ohr.psu.edu/Jobs/-External/EVMS2_External/currentap1.cfm#54408 >. A complete application will include a current CV, a cover letter describing your research interests, copies of three representative publications, and contact information for three references. Review of applications will begin immediately and continue until the position is filled. This is a fixed-term appointment funded for one year from date of hire with possibility of re-funding.

CAMPUS SECURITY CRIME STATISTICS: For more about safety at Penn State, and to review the Annual Security Report which contains information about crime statistics and other safety and security matters, please go to < <http://www.police.psu.edu/clery/> >, which will also provide you with detail on how to request a hard copy of the Annual Security Report.

Penn State is an equal opportunity, affirmative action employer, and is committed to providing employment opportunities to minorities, women, veterans, disabled individuals, and other protected groups.

rassis7@gmail.com

Quebec DeerMouseAdaptation

Post-Doc Position in evolutionary ecology at U Sherbrooke, U Laval & UQAM (Winter 2016)

A postdoc position is available as part of a FRQNT project on adaptation to insularity and the role of behaviour in the dynamics of a metapopulation of deer mice *Peromyscus maniculatus* in Northwest Ontario. The project will involve laboratory work with high-throughput SNPs genotyping and next generation sequencing, bioinformatics and fieldwork. The postdoc will be involved in all the aspects of the project, from data collection to publication. She/he will be part of a team of researchers composed of Denis Reale and Steven Kembel (Universite du Quebec a Montreal), Dany Garant (Universite de Sherbrooke), Louis Bernatchez (Universite Laval), and 2 PhD students.

Requirement : PhD in ecological genetics. A candidate with an experience on SNPs, next generation sequencing and bioinformatics is preferred. We are seeking a very autonomous, highly motivated, productive person, who will be willing to gain experience both in the lab and in the field. The candidate will be based in Sherbrooke University (with Dany Garant), will do extensive lab works in Laval University (in Louis Bernatchez lab), and frequent visits to UQAM (Montreal). Fieldwork will be conducted near Kenora (Northwest Ontario) in July and August 2016. Although the candidate will work in francophone Universities, French is not required.

The position is available for one year starting in January 2016, with possibility of renewal depending on research progress. To apply please send your CV, statement of research interests, and letters from at least two references, before October 10, to Denis Reale (reale.denis@uqam.ca) or by mail to Denis Reale, Departement des Sciences Biologiques, Universite du Quebec a Montreal, CP 8888 succursale centre-ville, Montreal, Quebec, H3C3P8.

Denis Reale Professeur Groupe de Recherche en Ecologie Comportementale et Animale Departement des Sciences Biologiques Universite du Quebec a Montreal CP 8888, succursale centre-ville Montreal, Quebec, Canada, H3C 3P8 Tel: 514 987 3000 (2265#) Fax: 514 987 4746

Denis Réale <reale.denis@uqam.ca>

QueensU FisheriesGenomics

Postdoctoral position fisheries genomics.

We seek a motivated individual to manage a large-scale fisheries genomics project. The incumbent will coordinate sampling and sequencing of several thousand arctic char, arctic cod, and northern shrimp for the purpose of defining and understanding stock populations. He/she will work with the PIs to establish analysis pipelines and support several graduate students who will further use these data for their own specific project goals. Prior project management and next-gen sequencing data analysis experience are a must.

Education requirements: - PhD in computational biology/bioinformatics OR statistics/computer science/math/engineering background with a firm grasp of genomics and genetics

Required background/experience: - published next-gen sequencing data analysis: familiarity with public alignment pipelines, SNV calling algorithms, common NGS manipulation tools and standardized NGS data formats (e.g. SAM/BAM, VCF) and genome assembly (e.g. ALLPATHS, SOAPdenovo) - competent programmer fluent in Unix/Linux, Perl or Python, and R or Matlab - computer cluster operation (e.g. PBS, LSF, Torque) - experience managing large datasets (Tbs) - managing personnel in the lab and mentoring students - strong interpersonal and communication skills - excellent oral and written English communication skills - outstanding academic and professional track record, including presentations at international conferences and experience producing high quality published research

Additional desirable experience: - ddRAD-Seq - evolutionary ecology

Salary: \$65,000 CDN plus benefits

Duration: 2 years

Location: Department of Biology Biosciences Complex Queen's University Kingston, Ontario, Canada

Application: Interested applicants should contact Stephen Lougheed (steve.lougheed@queensu.ca) directly. Please include 1) your CV that highlights the relevant skills, 2) a one-paragraph summary of your career goals and why you'd like to lead this effort, 3) names of three references and their contact information. Closing date Friday November 27 2015. Start date: Monday January

4 2016.

Contact: Dr. Stephen C. Lougheed Baillie Family Chair in Conservation Biology Director, Queen's University Biological Station Professor, Biology & Environmental Studies Queen's University, Kingston ON Canada K7L 3N6 URL: <http://sclougheed.ca> email: steve.lougheed@queensu.ca

SmithCollege SAR Biodiversity

Postdoctoral Position in Biological Sciences: Biodiversity of Stramenopila + Alveolata + Rhizaria (SAR)

The Department of Biological Sciences at Smith College invites applications for a full-time, benefits-eligible, non-tenure-track postdoctoral research position focusing on the biodiversity of the microbial lineages within 'SAR' (Stramenopila + Alveolata + Rhizaria), to begin January 2016. This grant-funded position will be housed in Professor Laura Katz's laboratory (<http://www.science.smith.edu/departments/-Biology/lkatz/Research.htm>). The initial appointment is for one year, with the possibility of extending for additional years. Ph.D. in Biological Sciences or related field required by time of appointment.

The goals of the project are to characterize the biodiversity of lineages within SAR through a combination of community and genome analyses, including high-throughput sequencing of communities and specific lineages, bioinformatic analyses of resulting data, and some microscopy of target lineages. The project is collaborative with Chris Lane at the University of Rhode Island (<http://cels.uri.edu/bio/lanelab/>) and Charles F. Delwiche at the University of Maryland (<http://www.life.umd.edu/labs/delwiche/home.html>). The Katz lab will focus initially on under sampled lineages within Ciliophora and Rhizaria.

Research in the Katz lab aims to elucidate principles of the evolution in eukaryotes through analyses of microbial groups, and to assess how these principles apply (or fail to apply) to other organisms. Currently we focus on three interrelated areas: (1) Characterizing evolutionary relationships among eukaryotes; (2) Exploring the evolution of ciliate genomes; and (3) Describing the phylogeography of coastal marine ciliates. Resources for the department include the Centers for Microscopy and Imaging, Molecular Biology, and Proteomics, in addition to the Young Science Library and MacLeish Field Station (<http://www.smith.edu/biology/resources.php>).

Submit application at <http://apply.interfolio.com/32659> with cover letter, C.V., a statement of research interests, and three representative publications. Review of applications will begin November 13, 2015.

Diversifying the student body, faculty, administration, staff, and curriculum is at the heart of our mission and vision for the College. We are committed to providing access and reasonable accommodation in the application process for individuals with disabilities and encourage applicants to request any needed accommodation(s). We value and are committed to a host of diverse populations and cultures, including, but not limited to, those based on ability, age, ethnicity, gender, gender identity, national origin, race, religion, sexual orientation, and veteran status.

Smith College is an EO/AA/Vet/Disability Employer. Women, minorities, veterans and individuals with disabilities are encouraged to apply.

lkatz@smith.edu

SwanseaU FishIntrogression

Postdoctoral position in Fish Epigenetic Introgression at Swansea University

We are looking for 1 Postdoctoral Research Fellow to explore the role of epigenetic modifications in the introgression between farm and wild salmon. It has long been recognised that the introduction of Atlantic salmon (*Salmo salar* L.) from captive populations in the wild, mainly through escapes from fish farms threaten the genetic integrity of natural populations through genetic introgression. Although domesticated salmon seem to have in general poor reproductive success, farm mature parr can have higher rates of fertilisation success than their wild counterparts, acting as vehicles of introgression, and in fact gametes of farm salmon are functionally similar to those of wild ones. Populations invaded by farm escapes show signs of significant genetic change and interbreeding between farm and wild salmon result in differences in the gene expression associated with environmental change and immune response. Yet, the mechanisms regulating these changes remain unknown. It has been recently documented that sperm (but not oocytes) epigenetic signatures are maintained in the embryos of zebra fish, if this was conserved in other fish the consequences of farm-wild introgression could be more profound than previously thought. Epigenetic mechanisms explain how heritable (and potentially

reversible) changes in gene expression can contribute to phenotypic diversity in populations through mechanisms that do not alter the underlying genetic code. This opens the door to a new potential vehicle of farm-wild interactions: epigenetic introgression that could further compromise locally adapted salmon populations. This project will provide data to clarify whether rearing in captivity can translate in epigenetic changes in the sperm of A. salmon that can be maintained in the embryo, representing a vehicle of introgression between farm and wild populations.

The project is funded by BBSRC-NERC and the post is available for 12 months starting November 2015 (although there is certain flexibility in the starting date) and based in Swansea University (Dr Sonia Consuegra, Prof Carlos Garcia de Leaniz) in collaboration with the University of Highlands and Islands (Prof Eric Verspoor, Dr Mark Coulson). At Swansea the Fellow will join a dynamic group (3 postdocs, 7 PhD students) working on a range of topics in Evolutionary Ecology including epigenetic basis of fish domestication, genetic and epigenetic basis of disease resistance under inbreeding, novel methods for detection of invasive species and modelling of dispersal.

Application deadline is the 5th of October and details on how to apply can be found at: <http://www.swansea.ac.uk/personnel/-jobs/details.php?nPostingID=2534&nPostingTargetIDD99&optionR&sort=SC&respr=1&ID=QHUFK026203F3VBQB7VL08NXD&LOV4x14&JOBADLG=UK&Resultsperpage&lg=UK&mask=suext>

Informal enquiries can be directed to

Sonia Consuegra (s.consuegra@swansea.ac.uk)-

Carlos Garcia de Leaniz (c.garciadeleaniz@swansea.ac.uk)

Dr. Sonia Consuegra

Dept Biosciences College of Science Swansea University Singleton Park SA2 8PP Swansea

Tel. +44 (0) 1792 602931 Email. S.Consuegra@swansea.ac.uk <http://www.swansea.ac.uk/staff/science/biosciences/-s.consuegra> https://www.researchgate.net/profile/Sofia_Consuegra <http://www.aquainvaded.com/http://aquawales.wix.com/aquawalescluster> "CONSUEGRA S." <s.consuegra@swansea.ac.uk>

TechUMunich PlantBisulphite SequenceAnalysis

Post-doc in population epigenetics and epigenomics

A post-doc position is available in the Johannes group (www.johanneslab.org) at the Technical University Munich. Description: DNA methylation is an important epigenetic mark with fundamental roles in gene regulation and transposable element silencing. In plant genomes, aberrant DNA methylation changes (i.e. epimutations) can arise spontaneously, similar to DNA sequence mutations. Unlike in animals, these epimutations are often transmitted across many generations and have been shown to contribute to the heritability of important plant traits. It remains unclear to which extent epimutations contribute to plant evolution, and whether they are exploitable in agricultural breeding programs. One current aim of our group is to quantify the genetic and environmental factors that shape the rate and the molecular spectrum of spontaneous epimutations in the model plant *A. thaliana*. In collaboration with other groups we are in the processes of setting up several experimental systems that will allow us to study these questions in depth. We will use whole genome bisulphite sequencing (WGBS) to measure the methylomes of a large number of *A. thaliana* lines.

What are we looking for: We are looking for a talented post-doc who will take charge of the analysis and interpretation of a large number of WGBS datasets. The applicant would make use of and combine several in-house computational algorithms into a single analysis pipeline. We have a strong preference for bioinformaticians/computational biologists with a deep appreciation for biological phenomena or, alternatively, experimentalists with a solid background in bioinformatics/computational biology. For specific inquiries regarding this position contact Frank Johannes at work@johanneslab.org.

Location: We are embedded in the Plant Sciences department within the TUM School of Life Sciences located (Freising campus). We are also part of the prestigious TUM Institute for Advanced Study. The TUM is rated among the best in Germany and ranked well internationally. The Freising Life Sciences campus is located about 20 minutes from the city center of Munich and 10 minutes from the Munich international airport. The campus has state of the art facilities for plant pheno-

typing, computing and bioinformatics.

Application: Send your application directly to work@johanneslab.org. The application should include: 1) a full CV, 2) a short statement of research interests and experience, and 3) contact information for two references (preferably everything in a single pdf file). Starting date is January 2016, but applications will be accepted until the position is filled.

Salary: The position is funded initially for 2 years with a possible extension. The salary is 75%-100% of a standard E13 TV-L pay scale depending on qualifications. The TUM is interested in fostering career opportunities for women, therefore women are strongly encouraged to apply. Applicants with disabilities and more or less equal qualifications will be favoured.

Relevant links: Johannes group: www.johanneslab.org
 Technical University Munich (TUM): <https://www.tum.de/en/homepage/> Department of Plant Sciences: <http://www.wzw.tum.de/index.php?id=3D204&L=3D1> TUM School of Life Sciences: <http://www.wzw.tum.de/index.php?id=3D2&L=3D1> Institute for Advanced Study: <http://www.tum-ias.de/> Frank Johannes <frank@johanneslab.org>

TexasTechU SalicaceaeSexDetermination

Postdoctoral Associate Position

Population Genetics of Sex Chromosome Evolution

A postdoctoral research associate position is available within an NSF-funded project to study ecological and genetic factors influencing the dynamic movement of sex determination regions and sex chromosome evolution within the Salicaceae (poplars and willows). The project focuses on mapping sex determination regions from representatives throughout the family, understanding the genetic basis of gender dimorphism in floral and foliar defense and pollinator attraction chemistry, and assessment of population genetic patterns across the sex determination and pseudo-autosomal regions of the sex chromosomes. Training opportunities also include potential visits to collaborating labs in the US and China. The successful candidate will be familiar with NGS data handling and a scripting language (Perl or Python), have a strong background in statistics (R), and strengths in population genetics and/or systematics. An earned PhD is required.

The position is available as soon as March 2016, but the exact start date is flexible; a delay of several months is possible for the right candidate. The position is available for up to two years, and may be renewable beyond that, assuming a satisfactory review after the first year. Salary will be competitive and commensurate with qualifications and experience. Interested applicants should send a letter of interest, CV, and names and email addresses of 3 references to Matt Olson, Department of Biological Sciences, Texas Tech University, P.O. Box 43131, Lubbock, TX USA 79409-3131, or email matt.olson@ttu.edu. Review of applications will begin on Dec 1 and continue until a suitable candidate is selected. Texas Tech is an equal opportunity/affirmative action employer.

“Olson, Matt” <matt.olson@ttu.edu>

UArkansas Community Evolution

A full-time, two-year, NSF funded Post Doctoral Fellow position in Community Ecology is available in the Siepielski Laboratory housed in the Department of Biological Sciences at the University of Arkansas (Position # 15781). The position is available for one year (anticipated start is January 2016, although this is flexible), with possibility of extension for one additional year based on satisfactory performance. The applicant will explore how niche and neutral processes may vary along a latitudinal gradient adopting theoretical, observational and experimental approaches.

Please note, this is a different position than the three-year evolutionary ecology position posted earlier on ECOLOG. Available here <http://jobs.uark.edu/postings/9447> Summary of job duties: The applicant will conduct field, laboratory and theoretical studies aimed at understanding the contributions of niche and neutral processes in shaping community structure of a diverse damselfly (Odonata) assemblage. The applicant is also expected to help oversee daily operations in the lab, organize field studies, prepare reports and manuscripts and present results at scientific conferences. The applicant will also be strongly encouraged to develop his/her own projects under the purview of the grant.

Minimum requirements: Ph.D. in Natural Resources, Environmental Sciences, Ecology, Evolutionary Biology or related field.

Preferred Qualifications: Demonstrated knowledge of contemporary community ecology theory, mathemati-

cal modelling, experience managing large complex field experiments and experience programming in R. Ability to conduct field work independently. Knowledge of aquatic invertebrate identification is preferred, but not required. Experience with proposal writing and grant management.

Essential: Excellent interpersonal and communication skills, ability to collaborate effectively with students and an international community; solid work ethic, strong time-management and multi-tasking skills; attention to detail; creative problem-solving nature and commitment to adopt and implement new methodological and analytical approaches.

Applications include: Cover letter, CV, research statement, names and contact information of three references. All documents are to be submitted to <http://jobs.uark.edu/postings/9581> by December 1, 2015.

The University of Arkansas, Fayetteville, AR (UARK) is a Tier I research university located in the Ozark Mountains. The faculty and graduate students at UARK are highly interactive and include an internationally known group of evolutionary biologists and ecologists < http://comp.uark.edu/~wetges/EtgesHP/E%26E_Program.html >. We are located in an ideal setting for field-based projects in aquatic systems (AR boasts more than 2,300 lakes and thousands of smaller ponds, and equally impressive numbers of rivers, streams and creeks). Fayetteville is located in northwest Arkansas and offers a high quality of living at a low cost, an excellent climate, and is a large enough city to offer diverse activities and amenities. Rock climbing, hiking, kayaking, canoeing, and mountain biking opportunities are in close proximity.

The University of Arkansas is an Affirmative Action/EOE institution committed to achieving diversity in its faculty and staff. We encourage applications from all qualified candidates, especially individuals who contribute to diversity of our campus community. The University welcomes applications without regard to age, race, gender (including pregnancy), national origin, disability, religion, marital or parental status, protected veteran status, military service, genetic information, sexual orientation or gender identity. All applicant information is subject to public disclosure under the Arkansas Freedom of Information Act and persons must have proof of legal authority to work in the United States on the first day of employment.

Adam M. Siepielski Department of Biological Sciences University of Arkansas Fayetteville AR, 72701 Ph: 1-479-575-6357 Web: <https://asiapielski.wordpress.com> “amsiepie@uark.edu” <amsiepie@uark.edu>

UBath Bioinformatics

Senior Research Associate in Bioinformatics

This position, funded by an ERC Advanced grant to Professor Laurence D. Hurst, is for a bioinformatician with experience in software development or for a software developer with an interest in transferring to bioinformatics. The project will involve translating knowledge of the mechanisms by which synonymous mutations affect fitness into improved transgene design and better diagnostics.

An interest in computational comparative genomics or in translational bioinformatics would be an advantage. The position will be a fixed term contract for up to five years. The candidate should have a successful track record in software development and website curation, design and implementation. The successful applicant will work in close collaboration with Professor Hurst and experimental collaborators in Edinburgh and Berlin.

The successful applicant will join a vibrant group working on comparative genomics and bioinformatics in The Milner Centre for Evolution (<http://www.bath.ac.uk/projects/the-milner-centre-for-evolution/>), at the University of Bath.

Closing date: Sunday 22nd November 2015. Starting date: as soon as convenient

Any questions to Laurence Hurst (l.d.hurst@bath.ac.uk)

To apply see here:

<https://www.bath.ac.uk/jobs/Vacancy.aspx?id=-3D6925&forced=3D1> Laurence D. Hurst FMedSci FRS Professor of Evolutionary Genetics Director of The Milner Centre for Evolution Department of Biology and Biochemistry University of Bath Bath Somerset, UK BA2 7AY

Tel: +44 (0)1225 386424 Fax: +44 (0)1225 386779 Email: l.d.hurst@bath.ac.uk Website: <http://people.bath.ac.uk/bssldh/LaurenceDHurst/Home.html>
Laurence Hurst <L.D.Hurst@bath.ac.uk>

UCalifornia Berkeley DiseaseEvolution

UC Berkeley - Infectious Disease Theory

A postdoctoral position is available join Professor Mike Boots group at UC Berkeley to contribute to the development of theoretical models focussed on understanding both general host-parasite evolution and epidemiology and specific disease interactions including TB in wildlife and humans and honeybee virus and mite dynamics. The research program will be developed with the successful candidate depending on their skills and interests. We are interested in candidates who have experience or interest in developing epidemiological models of specific disease interactions as well as those with interests in developing the general ecological and evolutionary theory of infectious disease. In addition candidates with experience of ecological and evolutionary modelling in other contexts interested in applying their skills to disease questions would be very welcome. The group collaborates widely with both theoretical and empirical colleagues in a number of countries.

The positions are open until filled. Please contact mboots@berkeley.edu for more information on how to apply.

Mike Boots Integrative Biology UC Berkeley

Mike Boots <mboots@berkeley.edu>

UCalifornia Davis PopGenetics

EFFECTIVE: October 14, 2015

DEADLINE: December 1, 2015

POSTDOCTORAL FELLOW IN POPULATION BIOLOGY—The Center for Population Biology at UC Davis invites applications for a Postdoctoral Fellowship in Population Biology, broadly defined to include ecology, phylogenetics, comparative biology, population genetics, and evolution. We particularly encourage applications from candidates that have recently completed, or will soon complete, their PhD.

The position is for TWO YEARS, subject to review

after one year, and can begin as early as 1 July 2016. This position is covered by a collective bargaining unit. It has a starting annual starting salary of \$42,840 plus benefits, and \$6,000 per annum in research support. The Fellow will be a fully participating member in the Center for Population Biology and will be expected to have an independent research program that bridges the interests of two or more CPB faculty research groups. We strongly encourage candidates to contact appropriate faculty sponsors before applying. We also ask that each Fellow propose a workshop, discussion or lecture series that they could offer to the community of population biologists at UC Davis; faculty sponsors or the Director of CPB, Artyom Kopp, can provide additional input on this aspect of the fellowship. For samples of past workshop abstracts and more information about UC Davis programs in population biology, see <http://cpb.ucdavis.edu/CPB%20Postdoc%20Fellowship.html>. ONLINE APPLICATION: Interested candidates should submit a cover letter, CV, a short (1-2 page) description of research accomplishments, a short (1-2 page) description of proposed research including potential faculty mentors, a brief (1 page or less) description of their proposed workshop, and copies of two publications, all in PDF format at: <https://recruit.ucdavis.edu/apply/JPF00745>.

Applicants should also provide the information requested for three referees. Once entered, applicants will electronically request letters from referees who will then be prompted by email with upload instructions. Refer to the on-line instructions for further information. For full consideration, applications (including letters of reference) must be received by December 1, 2015. The University of California is an Equal Opportunity/Affirmative Action Employer with a strong institutional commitment to the development of a climate that supports equality of opportunity and respect for diversity. E-mail questions to smmann@ucdavis.edu.

Artyom Kopp Professor, Department of Ecology and Evolution Director, Center for Population Biology University of California - Davis One Shields Ave Davis CA 95616 office (530) 752-8657 lab (530) 752-8328 fax (530) 752-9014 akopp@ucdavis.edu <http://kopplab.ucdavis.edu/> “akopp@ucdavis.edu” <akopp@ucdavis.edu>

UCalifornia LosAngeles LaKretzCenter Conservation

The UCLA La Kretz Center for California Conservation Science (<http://www.environment.ucla.edu/lakretz/>) invites applications for its Postdoctoral Fellowship in California Conservation Science. Consistent with our mission, we seek a postdoctoral scholar who simultaneously conducts innovative research and interfaces with the conservation and management agencies that direct and lead California conservation. Our emphasis is on biological conservation, and the successful candidate could work in any discipline that provides the scientific underpinnings for the preservation, protection, management, or restoration of at-risk species, environments, or ecological communities. We will consider candidates who have recently completed their PhD, or will have completed it by the start date for this position. We envision hiring one Fellow each year, building a team of conservation scientists with a passion for California and its biodiversity. Applicants may also seek collaborative funding opportunities with their on or off-campus mentors, potentially allowing for additional projects to be funded.

The La Kretz Fellowship is for two years, subject to review after the first year. Our expected start date is late summer, 2016. The successful applicant will be expected to conduct research that bridges the interests of at least one UCLA faculty member who is also a La Kretz affiliate (<http://www.environment.ucla.edu/-lakretz/people/affiliates.asp>) with priority science concerns of resource management agencies in California. Our primary partners include the National Park Service, CA State Parks, Santa Monica Mountains Recreation and Conservation Agency, Natural History Museum of LA County and The Nature Conservancy, although partnerships with USGS, CDFW, USFWS, DoD and other federal, state and local resource management groups and NGOs are also appropriate. Successful applicants should contact their faculty mentor to develop a research and agency collaboration plan, and describe that plan in their application. We also anticipate that the Fellow will also work with Brad Shaffer, Director of the La Kretz Center, to help develop collaborative research projects that further the mission of the Center. The position has an annual salary of approximately \$40,000 plus full benefits, and the Fellow will have the option to reside at the newly renovated La Kretz Field Station (<http://www.environment.ucla.edu/lakretz/fieldstation/>), lo-

cated in the Santa Monica Mountains about 25 miles from campus.

Interested candidates should submit a cover letter, CV, 2 page description of research and management accomplishments, ~2 page (single spaced plus references) description of proposed research including faculty and agency mentor(s), and copies of two publications, all as a single PDF file, to Mario Colon, Administrative Assistant, at mario.colon@ucla.edu. You should also have three letters of recommendation, including one from your Ph.D. advisor, sent under separate emails with the subject line "La Kretz Postdoc letter for XXX (your last name)". The deadline for completed applications is 15 December 2015. E-mail questions to Brad Shaffer (Director of the La Kretz Center) at brad.shaffer@ucla.edu or Mario Colon.

The University of California is an affirmative action/equal opportunity employer with a strong institutional commitment to the development of a climate that supports equality of opportunity and respect for differences.

Best,

Mario Mario Colon I Administrative Assistant I UCLA
La Kretz Center for California Conservation Science
818-519-7740 I mario.colon@ucla.edu I <http://www.environment.ucla.edu/lakretz/> Mario Colon
<mario.colon@ucla.edu>

UCalifornia SantaCruz Paleogenomics

PostDoc: UCalifornia.SC_Paleogenomics. PaleopopulationGenetics

Applications are invited for a Postdoctoral Scholar position in the Human Paleogenomics section of the Paleogenomics Laboratory at the University of California Santa Cruz. The Paleogenomics lab uses genomic data isolated from archaeological human remains to better understand the population history of our species and how genetic diversity is generated and maintained within populations through time. We are especially interested in the role of the interaction of culture and biology in the formation and maintenance of human genetic variability. The Human Paleogenomics section is directed by Professor Lars Fehren-Schmitz (Department of Anthropology). The section was established recently and joined the UCSC Paleogenomics Lab, directed by

Professors Beth Shapiro (Department of Ecology and Evolutionary Biology) and Richard Green (Department of Biomolecular Engineering). Together we combine experimental and computational approaches to address a variety of paleogenomics topics.

We seek a Postdoctoral Scholar to participate in an NSF funded collaboration project with the George Washington University and the Yale University whose general goal is to reveal the impact of the expansion of late pre-Columbian state societies (e.g. Inca) on the genetic structure of Central Andean populations. Beyond this general point we are interested in approaching a number of other factors relevant for the population history of South America using paleogenomic tools, including health/ disease and human adaptation to stress factor acting in high altitude. The Postdoctoral Scholar will be expected to use paleogenomic and population genetic/computational techniques to explore the population history of South America and beyond and preferably be interested in developing/adapting new statistical approaches to allow population differentiation in low diversity environments. Beyond that all members of our lab are encouraged and supported to develop their own project ideas. The successful candidate will attend and participate in lab meetings and journal clubs, and will work cooperatively with a team of scientists, including molecular biologists, archaeologists, biological anthropologists, historical linguists, ethno-historians and biostatisticians.

We have a preference for candidates with experience and expertise in paleogenomics, especially individuals with experience in population genetic approaches to the statistical analysis of genome wide ancient DNA data, and excellent organizational, verbal communication, and collaboration skills and willingness to travel to field sites and museums.

BASIC QUALIFICATIONS: A Ph.D. in biological anthropology, evolutionary biology, genomics, population genetics, bioinformatics, or other relevant fields; laboratory (wet lab or computational) experience; demonstrated record of research and publication; and experience with next-generation sequencing and analysis of paleogenomic NGS data, including phylogenetic and population genetic approaches to the statistical analysis of genomic data.

PREFERRED QUALIFICATIONS: The ideal candidate has experience in the analysis and manipulation of large, population genomic data sets, has programming skills and familiarity working in a UNIX environment. Active wet lab work is not mandatory for this position but experience with ancient DNA extraction, PCR amplification, genomic library preparation, and DNA se-

quencing protocols would be a plus. Learn More More information about this recruitment: http://apo.ucsc.edu/-academic_employment/jobs/JPF00312-16T.pdf *Open date: *September 18th, 2015 *Next review date: *October 30th, 2015 Apply by this date to ensure full consideration by the committee. *Final date: *July 31st, 2016

Dr. Lars Fehren-Schmitz Assistant Professor Anthropology Department & UCSC Human Paleogenomics Lab U.C. Santa Cruz 1156 High Street Santa Cruz, CA 95064 Phone: +1 (831)- 459-3851 Email: lfehrens@ucsc.edu HP: <http://ucschpg.wordpress.com/> Lars Fehren-Schmitz <lfehrens@ucsc.edu>

UC Berkeley Statistical Evolutionary Genetics

Postdoctoral Scholar- Statistical Evolutionary Genetics

The Nielsen lab at UC Berkeley is seeking a postdoc in statistical genetics to work on evolutionary modeling and methods for statistical inferences for DNA sequencing data in the context of ontogenetic trees. The postdoc will be hired as part of a joint project with the Makova group at Penn State. The candidate should have a strong background in computational statistics and statistical modeling. The ideal candidate also has previous experience with development of methods for statistical inference in population genetics and/or phylogenetics, including familiarity with computationally intensive methods such as MCMC, and has previous experience with Next Generation Sequencing data.

The initial appointment will be for 100% time for one year with the expectation of extension based on performance and the availability of funding. Salary: \$42,840-\$50,112 depending on experience and qualifications. This position provides full benefits. UC Berkeley has an excellent benefits package as well as a number of policies and programs to support employees as they balance work and family

Interested individuals should submit application documents as PDFs, which includes, a cover letter, updated curriculum vitae, and names with contact information for at least 3 individuals who have agreed to provide a reference for this specific position. For more information about the position including required qualifications and review date or to submit your application please go to: <https://aprecruit.berkeley.edu/apply/JPF00877>

. The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age or protected veteran status. For the complete University of California nondiscrimination and affirmative action policy see: <http://policy.ucop.edu/doc/4000376/-NondiscrimAffirmAct> . "rasmus_nielsen@berkeley.edu" <rasmus_nielsen@berkeley.edu>

U College London Statistical Phylogenetics

Research Associate in Statistical Phylogenetics in University College London, - Ref: 1507566

Research Associate in Statistical Phylogenetics at Department of Genetics, Evolution & Environment, UCL Grade: 7 Hours: Full Time Salary: Grade 7 (£33,353 - £40,313) per annum including London Allowance

Duties and Responsibilities

A postdoctoral researcher position is available in the group of Professor Ziheng Yang FRS at University College London to work on statistical phylogenetics, in collaboration with Professor Philip Donoghue FRS (University of Bristol). The project aims to develop statistical methods and computer software to estimate species divergence times integrating information in genomic sequence data and in the fossil record.

The successful candidate will be expected to develop Bayesian inference methods and implement computer software for analysing genomic sequence and morphological character data incorporating information from living and fossil species. They will be required to participate in developing theory, designing and implementing computational algorithms, conducting simulation, compiling and analysing genomic datasets, and writing up the results for publication in international peer-reviewed journals.

The post is funded by the BBSRC for three years in the first instance. Starting date is as soon as possible after 1 January 2016.

Key Requirements

We seek a highly-motivated research scientist with expertise in statistical inference (especially Bayesian inference through MCMC) and computer programming (C/C++,

R, and Python/Perl). We will also consider applicants with a background in evolutionary biology, phylogenetics or population genetics, if they demonstrate strong skills in bioinformatics and data analysis. In either case, fluency with UNIX/Linux is essential.

A PhD (or working towards a PhD) in one of the following areas is essential: computational statistics, computer science, molecular evolution and phylogenetics, and evolutionary and population genetics. Individuals with a biology PhD are invited to apply if they can demonstrate strong statistical/computational skills. Ability to work in a multi-disciplinary collaborative environment is essential. A proven track record of effective research in the field is highly desirable.

Appointment at Grade 7 is dependent upon having been awarded a PhD; if this is not the case, initial appointment will be at research assistant Grade 6B (salary 29,193 - 30,783 per annum) with payment at Grade 7 being backdated to the date of final submission of the PhD thesis (including corrections).

Further Details

Please visit the following link to see a Job Description and Person Specification, and to apply. Your application should include a brief personal statement (within two pages), explaining how your qualifications and experience make you a good candidate for this job, a CV and the names and email addresses for two references.

https://atsv7.wcn.co.uk/search_engine/-jobs.cgi?SIDamNvZGU9MTUwNzU2NiZ2dF90ZW1wbGF0ZT05NjUm b3duZXI9NTA0MTE3OCZv d25lcnR5cGU9ZmFpciZicmFuZF9pZD0wJnZhY194 dHJhNTA0MTE3OC41MF81 MDQxMTc4PTkyNzg2JmpvY19yZWZfY29kZT0xNTA3 NTY2JnBvc3RpbmdfY29kZT0yMjQmcmVxc2lnPTE0 NDU1NTU4MDEtODhmZjU1 ZGQwZGVkMTJjNjIyZDBk NTY4MTFiZjIxMDU0OWY4 ZmI4Mw

For informal queries on the role please contact Professor Ziheng Yang FRS at z.yang@ucl.ac.uk. If you have any queries regarding the application process please email biosciences.staffing@ucl.ac.uk.

Closing Date: 23 November 2015

z.yang@ucl.ac.uk

UExeter

EvolDiseaseTransmissionPollinators

We would like to recruit a Research Fellow working on a project studying the impact of agri-environment schemes on emerging diseases in pollinators. This BB-SRC funded post is available from the 4 of January 2016 for 30 months. The successful applicant will study disease transmission dynamics in wild pollinator communities under different agricultural management schemes, which are predicted to affect disease transmission opportunities.

This project is a collaboration between Dr. Lena Wilfert, Prof. Mark Brown (Royal Holloway University) and Dr. Michelle Fountain (East Malling Research) and offers the unique opportunity to study fundamental questions of disease ecology and evolution in multi-host pathogens by combining field-based genetic analysis with targeted experiments under controlled environments. By studying insects that provide crucial pollination services to agriculture and natural communities, this project can have direct impact on pollinator health. Within this grant, there is also the potential to experimentally test hypothesis derived from theory or model-based sequence analysis. A second post-doc is advertised at RHUL, working on the experimental infection aspects of this research project.

The post will include population genetics, phylogenetic modelling and bioinformatics as well as field work and associated lab work focussing on RNA virus detection. Expert dedicated technical support is available for field and lab work. The successful applicant will be able to develop research objectives, projects and proposals; identify sources of research funding and contribute to the process of securing funds and make presentations at conferences and other events.

Applicants will possess a relevant PhD in a related field of study. The successful applicant will have expertise in the fields of phylodynamics, disease ecology or molecular ecology. The successful applicant will also be able to work collaboratively, supervise the work of others and act as team leader as required. Applicants should have expertise in population genetics, phylogenetics and/or bioinformatics. Ideally, the candidate will have experience in phylogenetic modelling of viral transmission and/or molecular ecology of RNA viruses. Experience in fieldwork and wet lab molecular ecology and evolution

(especially quantitative PCR) would be advantageous.

The position will be based at the University of Exeter's Penryn Campus in Cornwall, with some fieldwork taking place in Southeast England and intensive collaboration with colleagues at Royal Holloway University London and East Mall Research. You will be able to profit from state-of-the-art lab and computing facilities. With the Centre for Ecology and Conservation and the Environmental Sustainability Institute, this campus is one of the leading hubs for evolutionary ecology, including experts in host-pathogen interactions (e.g. Prof. Angus Buckling, Prof. Mike Boots, Dr. Camille Bonneaud, Prof. Robbie MacDonald) and pollination ecology (Prof. Juliet Osborne, Dr. Frank van Veen). We also profit from Exeter's Welcome Trust Bioinformatics hub.

For further information please contact Dr. Lena Wilfert, on e-mail lena.wilfert@ex.ac.uk

The starting salary will be from GBP 33,242 up to GBP 35,256 on Grade F, depending on qualifications and experience.

The closing date for completed applications is 09 November 2015.

To view the Job Description and Person Specification document please click here < <http://www.admin.ex.ac.uk/personnel/jobs/P50316.pdf> > .

The University of Exeter is an equal opportunity employer which is 'Positive about Disabled People'. Whilst all applicants will be judged on merit alone, we particularly welcome applications from groups currently underrepresented in the workforce.

The College is working towards department Silver Athena SWAN < <http://www.exeter.ac.uk/working-prospective/benefits/athenaswan/> > awards as a commitment to providing equality of opportunity and advancing the representation of women in STEM/M subjects: science, technology, engineering, mathematics and medicine.

Dr. Lena Bayer-Wilfert Senior Lecturer in Molecular Evolution Centre for Ecology & Conservation Biosciences, College of Life & Environmental Sciences University of Exeter, Penryn Campus, Penryn, TR10 9FE UK

Phone: +44 (0) 1326370723 Email: lena.wilfert@ex.ac.uk
 Website: http://biosciences.exeter.ac.uk/staff/index.php?web_id=-Lena.Wilfert "Bayer-Wilfert, Lena" <L.Bayer-Wilfert@exeter.ac.uk>

UGeorgia DiseaseEvolTraining

The Odum School of Ecology at the University of Georgia is initiating a new track for doctoral training in Interdisciplinary Disease Ecology Across Scales (<http://ideas.ecology.uga.edu/>). A postdoctoral associate is being sought to assist with curriculum development, student evaluation, and assessment.

Qualifications: Applicants must have a Ph.D. in either (1) ecology, evolution, or other field related to infectious disease biology (e.g., immunology, microbiology), or (2) education (with a strong emphasis and background in biology). Applicants are expected to have experience or a genuine interest in instruction, education research, or evaluation and assessment at the post-secondary level.

Responsibilities: The candidate will: (1) assist program directors in the design and implementation of instruments for student evaluation and assessment, (2) compile program information to facilitate external program evaluation, (3) coordinate a team of faculty involved in curriculum development and production of teaching materials. The candidate will also be expected to develop an independent instructional or research project within the context of the IDEAS program. For further information, please contact Dr. John Drake (jdrake@uga.edu).

Institution: The Odum School of Ecology (<http://www.ecology.uga.edu/>) is located on the main campus of the University of Georgia in Athens. A faculty of around 35 is responsible for degree programs including the BA/BS in Ecology, MS in Ecology, MS in Conservation and Sustainable Development, and PhD in Ecology. Areas of research emphasis include ecology of infectious diseases, ecosystem ecology, aquatic ecology, evolutionary ecology, and sustainability science.

Start date: Negotiable

The deadline for applications is 30 November 2015. Applications should consist of: (1) a cover letter describing your background and interests and how they relate to the position; (2) a current curriculum vitae; and (3) contact information for three references who have specific knowledge of your interests in post-secondary education research and/or instruction. Materials should be sent as a single pdf to ideas@uga.edu. The deadline for applications is 30 November 2015.

andrea.silletti@gmail.com

UIllinois Epigenomics

Postdoc in behavior and epigenomics at the University of Illinois, Urbana Champaign

The Bell lab is seeking a postdoc to work on an NIH-funded project investigating the epigenetic mechanisms underlying transgenerational plasticity, specifically the effects of fathering on offspring in threespined sticklebacks. This project will integrate behavioral experiments, brain gene expression data, bisulfite sequencing, ChIPSeq and functional tests using CRISPR-Cas9 to identify the epigenetic changes to offspring caused by paternal care.

The position is funded for up to 4 years with a somewhat flexible start date (between January-July 2016). Qualifications include a PhD and expertise in animal behavior, neuroscience or molecular biology. Experience with genomics, specifically bioinformatics, RNASeq, DNA methylation or ChIPSeq is preferred. Familiarity with fish is desirable, but not necessary.

The University of Illinois has state-of-the-art genomics and supercomputing facilities (<http://www.biotech.uiuc.edu/>), a vibrant community in ecology and evolution (<http://sib.illinois.edu/peec/>), genomics (<http://www.igb.illinois.edu/>) and neuroscience (<http://neuroscience.illinois.edu/>).

To apply, please submit a cover letter, CV, and a 2-page research statement describing your research interests, background and your goals for your career and postdoc. Please also include the names and contact information for 2-3 references. Applications will be reviewed starting November 1, 2015, and will be considered until the position is filled. For questions, please contact Alison Bell (alisonmb@life.illinois.edu) or visit the lab website: https://sib.illinois.edu/bell/Bell_lab_web_page/Welcome.html Alison Bell <alisonmb@illinois.edu>

UKentucky EvolutionaryModelingOfInsects

Post-Doctoral Position at the University of Kentucky

*Project: *Funding is available for a post-doc to build theoretical models that integrate Integrated Pest Management (IPM) tactics with Insect Resistance Management (IRM), considering eco-evolutionary and metapopulation dynamics of adaptation. We aim to integrate past knowledge of pest systems with new modeling paradigms to identify novel solutions for insect resistance management. In particular, we seek to develop a modelling approach that simultaneously considers spatial and temporal variation in resistance evolution in a meta-population context. These models will consider dispersal, density-dependent population dynamics, types of refuge, crop rotations, insecticide applications, and biocontrol strategies to identify novel resistance management methodologies that may improve pest suppression and the extend the life of pest control products. The developed models will provide a theoretical framework to generate and test hypotheses concerning resistance evolution and will consider pest and natural enemy biologies, crop spatial and temporal heterogeneity, insecticide applications, and interactions among these processes. Funding is also available (starting in year 3) to do field experiments testing hypotheses generated from the developed models. Additional details about the project are available upon request.

*Qualifications:*Interested individuals must have a PhD in ecology, evolutionary biology, entomology or a related field with expertise in modeling of ecological and/or evolutionary dynamics, particularly in a metapopulation context.

*Hiring:*Preferred start date is January 2016 or as soon thereafter as possible. Initial funding is for one year; funding for years 2 and 3 depends upon satisfactory completion of the Year 1 goals. Salary is dependent on experience.

Research PIs: Research funding for this project was awarded to Charles Fox (<http://www.uky.edu/~cfox/>), John Obrycki (<http://www2.ca.uky.edu/entomology/dept/ipages/jobrycki.asp>) and James Harwood (<http://www2.ca.uky.edu/entomology/dept/ipages/jharwood.asp>) in the Department of Entomology (<http://www2.ca.uky.edu/entomology/entomology.php>)

at the University of Kentucky.

***To apply:** Please email Charles Fox at cfox@uky.edu with your CV, a statement discussing your interest in this position and your experience as it relates to the project, and the names plus contact details of at least three references.

***Deadline:** The position will remain open until a suitable applicant is found.

– Dr. Charles W. Fox Professor and Director of Graduate Studies Department of Entomology University of Kentucky Lexington, KY 40546-0091 phone: 859-257-7474 e-mail: cfox@uky.edu web: www.uky.edu/~cfox Charles Fox <cfox@uky.edu>

ULaval Evolutionary Genomics

Postdoctoral position in evolutionary genomics and systems biology

A postdoctoral position is available in the Landry Laboratory at Université Laval in Québec City under the Canada Research Chair in Evolutionary Cell and Systems Biology. The PDF will work on a project at the interface between genomics, cell biology and evolution to investigate the mechanisms of evolution of gene and protein networks. The specific project will be developed with the selected candidate. The selected candidate will combine experimental evolution, high-throughput screening and bioinformatics, and the budding yeast *Saccharomyces cerevisiae* as experimental model system.

The candidate is expected to have a PhD in biology or a related discipline, and a strong background in molecular and cell biology with at least basic skills in bioinformatics and statistics (R, Python or Perl). The candidate should have strong leadership skills, motivation and creativity and be able to work in a team of collaborators.

The Landry lab is located at the Institut de Biologie Intégrative et des Systèmes (IBIS) of Université Laval and is part of the Quebec Network for Research on Protein Function, Engineering, and Applications (PROTEO). IBIS and PROTEO offer very stimulating training environment and cutting edge technologies in genomics and proteomics. The Landry lab is an international team of 15 students, PhDs and research associates from different backgrounds (microbiology, biology, bioinformatics, biochemistry) addressing questions in evolutionary cell and systems biology.

The application package (1 single PDF file) should include a motivation letter demonstrating the interest of the candidate for the field and his/her ability to perform this type of research, a short project proposal (half a page), reprints of the candidate's most important contributions, a CV and the contact information of three people who can provide letters of reference. The file should be sent to landrylaboratory@gmail.com

Starting date could be as early as January 2016. The competition will remain open until a candidate is selected.

For recent publications from the Landry lab, please visit:

<http://landrylab.ibis.ulaval.ca/> Christian Landry

Christian Landry, PhD Professeur agrégé
Chaire de Recherche du Canada Biologie évolutive des systèmes cellulaires // Canada Research Chair Evolutionary Cell and Systems Biology
Département de Biologie Institut de Biologie Intégrative et des Systèmes PROTEO Local 3106, Pavillon Charles-Eugène-Marchand 1030, Avenue de la Médecine Université Laval Québec (Québec) G1V 0A6 Canada <http://landrylab.ibis.ulaval.ca/>
Téléphone: 418-656-3954 Télécopieur: 418-656-7176

Christian Landry <Christian.Landry@bio.ulaval.ca>

UMinnesota EvolQuant Genetics

An energetic postdoctoral researcher is sought as a colleague in an NSF-funded project in the field of evolutionary quantitative genetics. The goal of the research is to evaluate the immediate capacity for ongoing adaptation, as well the extent to which that capacity is realized, within natural plant populations. The study focuses on *Chamaecrista fasciculata*, an annual plant with a native distribution spanning eastern North America. It involves formal genetic crosses in greenhouses and field experiments in Minnesota and Iowa. Qualifications for this position include: Ph.D. in evolutionary biology or related field; strong background in statistics, including experimental design and analysis of data, especially with R; experience with sizeable experiments in the field; evidence of success in completing research through publication. The position is available as early as Feb 15, 2016 and has a duration of 2 years with the possibility of extension. Review of applications will begin Nov 15 and continue until a suitable candidate is

found. Interested individuals may contact Ruth Shaw (shawx016@umn.edu) for further information. Applications including C.V., statement of research interests, and names and email addresses of 3 references may be submitted to: <http://www1.umn.edu/ohr/employment/> The position number is 305224.

As an institution committed to demonstrating excellence through diversity, the College of Biological Sciences of the University of Minnesota is committed to hiring diverse faculty and staff, and actively encourages candidates from historically underrepresented groups to apply.

Ruth G. Shaw Professor and Editor in Chief, Evolution Dept of Ecology, Evolution and Behavior 100 Ecology 1987 Upper Buford Circle University of Minnesota St. Paul MN 55108

Ruth Shaw <shawx016@umn.edu>

UOregon EvolGenetics

I am looking to recruit a new postdoctoral fellow to the lab. This is not a position on an existing grant but would instead be support for (at least) one year while we work together to seek an externally funded fellowship. This therefore represents an opportunity to work creatively on a new self-directed project that articulates well with other existing lab activities. I am particularly interested in finding someone who interested (in part) in working with the large amounts of functional and population genomic data that we are currently generating. Some mixture of bioinformatics, theory, and/or experimental approaches using nematodes as a model system would therefore ideal for the postdoctoral project.

If interested, the candidate would also have the opportunity to teach in our new Bioinformatics and Genomics Masters Program, as well as to help me teach a new systems genomics course that I am putting together. The lab currently has NIH funded projects oriented around the systems genetics and experimental evolution of natural variation in stress response, the biodemography of the interaction of diet, health and reproduction, and the influence of genetic variation on the activity of compounds leading to increased life and health-span. The website for the lab is www.uoregon.edu/~pphil. If interested please send an email describing your background and potential future interests, a copy of your CV, and the names of three references to pphil@uoregon.edu.

Patrick C. Phillips, Ph.D. Professor of Biology Institute of Ecology and Evolution Email: pphil@uoregon.edu Phone: (541) 346-0916 | FAX (541) 346-2364 Address: 5289 University of Oregon Eugene, OR 97403-5289 USA Web: Lab <http://www.uoregon.edu/~pphil> IEE <http://evolution.uoregon.edu>

"pphil@uoregon.edu" <pphil@uoregon.edu>

UOslo MicrobeEvolution

Department of Biosciences Postdoctoral Research Fellow in Microbial Molecular Ecology

Position as postdoctoral research fellow available at the Department of Biosciences,

The fellowship period is 2 years. Starting date no later than 01.1.2016. No one can be appointed for more than one fixed-term period at the same institution.

Project description:

The position will take place within the Centre for Integrative Microbial Evolution (CIME) at the University of Oslo (UiO), Norway. CIME is a newly established research environment at UiO which comprises multidisciplinary research in microbial ecology and evolution. The candidate will work in questions that are at the forefront of microbial ecology & evolution research using state-of-the-art technologies, within a motivating and cross-disciplinary scientific environment that should promote future career perspectives.

The main aim of the project is to assemble a comprehensive network of ecological interactions (interactome) between microbes inhabiting a marine-coastal microbial observatory in the Mediterranean Sea. The project will use multiple omics approaches (metagenetics, metagenomics, metatranscriptomics & single-cell genomics) in order to determine ecological interactions between abundant microbes. An interaction network will be assembled progressively and its properties will be analyzed in a network-analysis framework. The work will include field sampling, general wet-lab as well as multiple bioinformatics and statistical analyses. Collected data will be analyzed together with data from archives (DNA as well as contextual metadata) encompassing the last 10 years.

Qualifications:

The Faculty of Mathematics and Natural Sciences has a strategic ambition of being a leading research faculty. Candidates for these fellowships will be selected in accor-

dance with this, and expected to be in the upper segment of their class with respect to academic credentials.

The candidate must have a PhD or other corresponding education equivalent to a Norwegian doctoral degree in Bioinformatics, Ecology, Biology or Marine Sciences. He/She must have a strong interest in microbial ecology, evolution and computational biology, which is needed to perform the research and interpret results. Furthermore, experience in processing High-Throughput Sequencing (HTS) data (Illumina sequencing) deriving typically from projects on microbial genomics, metagenomics, metagenetics, transcriptomics or single-cell genomics will be considered a strong advantage. The candidate must have proved fluency with at least one computer programming language (Python, R or Perl) and general Unix skills. Extra aspects that will be evaluated positively are: motivation, flexibility for fieldwork trips to Barcelona, familiarity with statistics, wet-lab techniques (DNA/RNA extraction, flow cytometry, preparation of libraries for HTS, PCR, etc.) and with working with high-performance computing clusters, scientific writing, communication skills and independence as well as capability to work and collaborate in research teams.

The main purpose of post-doctoral research fellowships is to qualify researchers for work in top academic positions within their disciplines.

Please also refer to the regulations pertaining to the conditions of employment for post-doctoral fellowship positions.

A good command of English is required.

Salary:

Position code 1352, Pay Grade: 57 - 65 (NOK 483 700- 560 700 per year, depending on qualifications and seniority).

The application must include: * Application letter (indicating motivation for applying for the position) * CV (summarizing education, positions, pedagogical experience, administrative experience and other qualifying activity) * Copies of educational certificates, transcript of records and letters of recommendation * Documentation of English proficiency if required see: * A complete list of publications and up to 5 academic works that the applicant wishes to be considered by the evaluation committee * Names and contact details of 2-3 references (name, relation to candidate, e-mail and telephone number)

Please remember that all documents should be in English or a Scandinavian language.

In accordance with the University of Oslo's equal opportunities policy, we invite applications from all interested

individuals regardless of gender or ethnicity.

UiO has an agreement for all employees, aiming to secure rights to research results a.o. * Region: * Oslo

* Job type: * Contract

* Working hours: * Full-time

* Working days: * Day

* Application deadline: * 10 November, 2015

* Location: * Oslo

* Reference number: * 2015/12947

* Home page: * <http://www.mn.uio.no/ibv/> * Contacts:

* Ramiro Logares * Questions regarding Easycruit, contact HR Officer Torunn Standal Guttormsen Telephone: +47 22 85 42 72

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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>

URochester AphidEvoDevo

An NIH-funded postdoc position is available in Jenn Brisson's lab in the Department of Biology at the University of Rochester. The project's aim is to investigate the molecular mechanisms underlying control of the wing polyphenism in pea aphids. Techniques used will include gene expression analysis (RNA-Seq and/or qRT-PCR), gene knockdown, hormone assays, and pharmacological manipulations. The postdoc will be expected to coordinate and conduct research, mentor undergraduate students, and write up results for publication. Additionally, the successful applicant will have the opportunity to develop new research directions.

Appointment for this position will initially be for 12 months, with renewal for up to four years, contingent on sufficient progress. The start date is flexible, as early as December or as late as March. Salary is commensurate with experience, and benefits are included. Experience in endocrine and/or gene expression studies is strongly preferred.

More information about the lab can be found here: http://www.rochester.edu/College/BIO/labs/-BrissonLab/Brisson_Lab/Home.html . Applications

should include a cover letter with a short description of research interests and accomplishments (~1 page), a CV, and names and email addresses of three references. Please email these materials to Jennifer.brisson@rochester.edu with POSTDOC APPLICATION in the subject line. Screening begins immediately and continues until a suitable candidate is found. Also feel free to email me at Jennifer.brisson@rochester.edu with any questions prior to applying!

“Brisson, Jennifer” <jbrisso3@UR.Rochester.edu>

USalford MarineGenomics

The University of Salford’s Ecosystems & Environment Research Centre (<http://hub.salford.ac.uk/els/eerc/-bicom/>) is recruiting a molecular ecologist for a new NERC-funded research position as part of “SeaDNA”: a project centred on the use of community metabarcoding from environmental DNA collected in a range of marine environments. New developments in sequencing, bioinformatics, remote underwater sampling and ecological modelling offer the opportunity to explore and groundtruth the potential of trace DNA to characterise ecosystem structure in the ocean. We are looking for a dynamic, collaborative and enthusiastic researcher with familiarity with marine ecosystems and experience of massively-parallel sequencing data analysis. The successful candidate will join Professor Stefano Mariani’s (http://www.researchgate.net/profile/Stefano_Mariani3) team and will engage with all other project partners in Bristol, Imperial College, the British Antarctic Survey and the Marine Biological Association.

Please follow this link for the online application procedure (REF. 1513046): https://atsv7.wcn.co.uk/-search_engine/jobs.cgi?owner=5036328&ownertype=fair&jcode=1513046&vt_template=919&adminview=1 Make sure to include covering letter and full CV.

The position is available as soon as possible after 01/12/2015, for the full duration of the project (3.5 years). Salary range: £28,695-30,434.

Closing date for applications: Friday 20th November 2015. Interviews will be held in early December 2015.

Informal enquiries can be directed to Prof. Mariani: s.mariani@salford.ac.uk

Salford University is Committed To Equal Opportunities.

“S.Mariani@salford.ac.uk” <S.Mariani@salford.ac.uk>

USaskatchewan GrassBioinformatics

Postdoctoral position in evolutionary bioinformatics and grass genomics

A postdoctoral fellowship in evolutionary bioinformatics and grass genomics is available in the Department of Plant Sciences at the University of Saskatchewan. We are looking for a motivated researcher with a background in evolutionary bioinformatics of RNA-seq data and/or with computer programming skills. The successful candidate will be involved in a perennial grass genomics project to characterize genes related to crested wheatgrass flowering time. Specifically, the successful candidate will be involved in a series of RNA-seq experiments and will perform evolutionary bioinformatics analyses to evaluate the transcriptomic responses of crested wheatgrass lines and diverse germplasm of differing maturity. The candidate will be involved in preparation of research reports and manuscripts for publications.

The starting salary will be commensurate with experience and qualifications. The position is a 2-year full time contract. The expected start date is April, 2016. Location of the research work will be at the Molecular Genetics Lab at Agriculture and Agri-Food Canada Saskatoon Research Centre (Dr. Yong-Bi Fu), and at the Forage Breeding Lab at the University of Saskatchewan (Drs Bruce Coulman and Bill Biligetu).

Screening of applications will continue until the position is successfully filled. Only candidates that are interviewed will be notified. Please send a covering letter, a full curriculum vitae (CV), and two letters of references to: Dr. Bill Biligetu, Crop Development Centre, University of Saskatchewan, 51 Campus Drive S7N5A8, Email: Bill.biligetu@usask.ca

Bill

Bill Biligetu Ph.D, P. Ag

Assistant professor - forage crops breeding Crop Development Centre, University of Saskatchewan 51 Campus Drive, Saskatoon SK S7N 5A8

Tel: (306)966-4007, Fax: (306)966-5015 Email: Bill.Biligetu@usask.ca

“Biligetu, Bill” <bill.biligetu@usask.ca>

USDA Newark Delaware ParasitoidEvolution

The U.S. Department of Agriculture (USDA), Agricultural Research Service (ARS), North East Area is seeking highly qualified candidates for a Post-Doctoral Research Associateship (GS-11 Geneticist/Biologist/Entomologist) at the Beneficial Insect Introductions Research Unit in Newark, Delaware. Salary range of \$62,476 to \$ 81,219.

The position involves research on the evolution and genetics of host specificity of parasitoids in the genus *Aphelinus*. This will involve mapping QTL (quantitative trait loci) associated with differences in host specificity, analysis of *Aphelinus* genomes and transcriptomes for sequence and expression differences that indicate divergent selection, and genetic mapping of divergent genes to determine whether they are associated with QTL. The research will also involve analysis tissue- and stage-specific expression of divergent genes and knockout of these genes to determine whether they indeed affect host specificity.

For application details, see the vacancy announcement RA-15-062-H on the USAJOBS Website (<https://www.usajobs.gov/GetJob/ViewDetails/417270800>). U.S. citizenship is required. Applications will be accepted until the position is filled.

USDA/ARS is an equal opportunity employer and provider. If you have questions, contact Dr. Keith Hopper, phone: +1-302-731-7330 ext 238, email: Keith.Hopper@ars.usda.gov.

Keith Hopper <khopper@udel.edu>

USheffield ComputationalBiol

A 12 Post-doctoral Research Associate positions is available at Dr. Eran Elhaik lab working on a Medical Research Council (MRC) funded project. The candidate will develop biogeographical tools that predict the geographical origins of humans using their DNA data. The project built on the success of the previous tool, the Geographic Popula-

tion Structure (GPS) (<http://news.sciencemag.org/archaeology/2014/04/scienceshot-genetic-app-tells-you-where-you%E2%80%99re>), published in 2014 in Nature Communications (<http://www.nature.com/ncomms/2014/140429/ncomms4513/pdf/ncomms4513.pdf>). The current project aims to extend the scope of the original GPS tools into mixed individuals, whose parents have different geographical origins. This is a multi-disciplinary project involving programming and modelling with application to personalized medicine. The project will involve collaborations with researchers in other disciplines, including biomathematics and biostatistics and work with the pharma industry. The PDRA will be expected to have a strong grounding in programming (Matlab or R), and math/statistics modelling. Previous experience with Pharmacogenetics would be an advantage.

Please send your application by E-mail attachment, including a detailed

CV, a statement on experience with computational/modelling work, PDFs of relevant publications, and names of two potential referees to Dr. Eran Elhaik (E-mail: eranelhaik@gmail.com). The call is open until a suitable candidate is found. Please direct enquiries to the same E-mail address.

Dr. Eran Elhaik

The bioinformatics hub, The University of Sheffield, Sheffield, UK

<http://www.eranelhaiklab.org/> Eran Elhaik
<e.elhaik@sheffield.ac.uk>

UTAustin EvolEpigenomicsBehavior 2

Postdoctoral opportunity: Evolutionary epigenomics of behavior, UT-Austin

The Phelps Lab at the University of Texas at Austin is looking for a postdoctoral trainee with strong bioinformatics skills to investigate the adaptive evolution of gene regulation in non-model systems. The project seeks to identify adaptations in neuronal gene regulation associated with the emergence of monogamy in prairie voles. The successful candidate will have experience with genome-wide tests of selection and comfort with standard methods of bioinformatics (UNIX scripting, R, Python). This is an excellent opportunity for a recent graduate with a background in bioinformatics, phylo-

genetics or population genetics looking to expand into functional measures of sequence evolution, neurobiology or animal behavior. Although not required, the applicant will have the opportunity to become proficient in a variety of advanced genomic methods, including ChIP-seq, meDIP, conformation capture and other techniques. UT-Austin is a wonderful place to be. There is a vibrant community of researchers working at the interface of brain, behavior and evolution, an excellent sequencing facility, and extraordinary computational resources offered through the Texas Advanced Computing Center and the Center for Computational Biology and Bioinformatics.

The lab has two years of funding available, with the second year contingent on progress in the first year. Applications should include a current CV along with a cover letter that provides a short (~1 page) statement of research interests and contact information for three references. Please submit applications by email to sphelps@mail.utexas.edu, with POSTDOC in the subject line.

Applications will be reviewed beginning November 1, and will continue until the position is filled. The start date is flexible. We think diversity is a component of excellence, and welcome applicants regardless of gender, ethnicity, sexuality, religious beliefs, age or disability. Thanks for your interest!

Steve Phelps Associate Professor, Department of Integrative Biology Director, Center for Brain, Behavior and Evolution University of Texas at Austin Austin, TX 78712, USA Phone: 512 475 6304

Steve Phelps <sphelps@mail.utexas.edu>

UTrento BehaviouralEvolution

Postdoc position on behavioural evolution/chemical ecology of *Drosophila*

A Postdoc position on behavioural evolution/chemical ecology of *Drosophila melanogaster* and *Drosophila suzukii* is available at the Center for Mind/Brain Sciences (University of Trento, Italy) from December 2015. The project focuses on the behavioural, perceptual and evolutionary bases of olfactory differences in an innocuous (*D. melanogaster*) and a pest species (*D. suzukii*), with important implications for both basic and applied research. The project has already started and there are many possibilities to extend the current

studies on the behavioural, neurobiological and genetic components of interspecific differences. A PhD in neuroscience/agricultural studies/biology or related disciplines is required. Experience with insect models is an advantage. The laboratory is fully equipped and offers an exciting international and interdisciplinary work environment (<http://r.unitn.it/en/cimec/nphys-people#PostDocs>; <http://r.unitn.it/en/cimec/abc/abc-team-members>). If interested in the job, please send a motivation letter, CV, publications, and e-mail addresses of two academic referees to prof. Albrecht Haase: albrecht.haase@unitn.it For any question, do not hesitate to contact us: elisabetta.versace@unitn.it

Elisabetta Versace, PhD

University of Trento Center for Mind/Brain Sciences ACN lab - Animal Cognition and Neuroscience Laboratory Piazza della Manifattura 1, 38068 Rovereto (TN), Italy Phone: + 39 0464 808658 Mobile: +39 3498744279

Workshop: Insect models of Behavior: ecology, genetics, evolution, pest management. Rovereto (Italy), 4th September 2015 <http://www.unitn.it/cimec-insectmodels> [elisabetta.versace](mailto:elisabetta.versace@unitn.it) <elisabetta.versace@unitn.it>

UUtah HumanGeneticVariation

The Chow Lab in the Department of Human Genetics at the University of Utah in Salt Lake City is recruiting postdoctoral research associates. We study how genetic variation impacts basic cellular traits and disease outcomes by employing quantitative and functional tools in a variety of model organisms. We are looking for independent, motivated scientists interested in building creative research programs around: 1) Quantitative analysis of the role of genetic variation on the ER stress response; 2) Functional analysis of novel ER stress genes; 3) Analysis of background effects and modifier genes on Mendelian diseases; 4) Functional and network analysis of modifier genes. Postdocs will also be encouraged to develop independent projects that fit the general mission of the lab, with the ultimate goal of independence. The successful candidate will join a rapidly expanding group and vibrant department in the School of Medicine, with numerous opportunities to collaborate with clinicians and other basic science labs.

Required Qualifications: 1) Ph.D. in genetics, cell biology, genomics, or related field 2) Strong background in genetics

Desired Qualifications (one or more): 1) Experience with mouse or Drosophila 2) Experience with CRISPR/Cas9 and cell culture 3) Experience with RNAseq analysis 4) Knowledge of programming (e.g., R) 5) Knowledge of statistical methods

Application Materials: 1) Cover Letter detailing previous research and interest in our lab (1 pg max) 2) Curriculum Vitae 3) Names and contact information of three academic references

To apply, please send a single PDF that contains a cover letter, detailed CV, and names of 3 references to cchow@genetics.utah.edu. Applications will continue to be accepted and considered until the job is filled/closed.

For more information see: www.ChowLab.org . Clement Chow <cchow@genetics.utah.edu>

UVenda SouthAfrica BioinformaticsPopGenet

Postdoctoral Fellowship in Bioinformatics/Population Genetics

The Molecular Ecology group at the Department of Zoology, University of Venda, is seeking a motivated bioinformatician or population geneticist at the post-doctoral level. The position is funded for a year, and will run from 1 January 2016 to 31 Dec 2016, but with the possibility of extension for a further two years depending on progress. Remuneration will be in line with national funding standards (http://www.nrf.ac.za/sites/default/files/documents/Call_for_funding_NRF_Freestanding_Postdoctoral_Fellowship_2015.pdf). Call for funding NRF Freestanding Postdoctoral Fellowship 2015 NRF Freestanding Postdoctoral Fellowships Call for 2015 1. Background The National Research Foundation (NRF) is an agency mandated by an act of Parliament (Act no Read more...

The University of Venda is located in the remote, tropical north-eastern corner of South Africa. It is the only university in South Africa located within a Biosphere Reserve, and the closest university (only 70km) to the world-famous Kruger National Park. Research within the Vhembe Biosphere Reserve is coordinated through the University. This all makes for an extremely rewarding quality of life, especially for those interested in outdoor/wildlife related activities.

The successful applicant will be required to work closely

with an IT/network administrator to set up bioinformatics pipelines for whole genome assembly, genome alignments and standard population genetic analyses. The ability to write and debug code will be essential. The candidate will also be required to analyse existing whole genome data with an aim to elucidating mechanisms of speciation in sub-Saharan Africa under the model of a fluctuating Plio-Pleistocene palaeoclimate.

For further enquiries please contact Prof. Yoshan Moodley: yoshan.moodley@univen.ac.za or send through your application including your CV, publication list and the contact details of three referees. The deadline for applications is the 9th of October 2015.

Yoshan Moodley <yoshan.moodley@mvulauniven.ac.onmicrosoft.com>

UWisconsin Madison PopulationGenomics

A postdoctoral position will be available in Dr. Sean Schoville's lab at the University of Wisconsin-Madison, in collaboration with Dr. Yolanda Chen (University of Vermont) and Dr. David Hawthorne (University of Maryland).

Summary:

Understanding the mechanisms underlying rapid evolutionary change, particularly at the scale of the whole genome, is an important challenge for both theoretical and applied evolutionary biology. This project focuses on the Colorado potato beetle, and its relatives, to understand the structural and functional genomic changes associated with the beetle's host range expansion onto potato, the colonization of novel climatic regimes, and the rapid development of insecticide resistance (to over 50 classes of insecticides!). With a dataset comprising 100 whole genomes, this is an excellent opportunity to publish a number of high-profile research papers.

Position Responsibilities:

The post-doctoral associate will have the opportunity to analyze whole-genome resequence data to assess the population genomics and structural genomic changes across a diverse sample of Colorado potato beetle genomes. This project will provide training opportunities in bioinformatics analysis, population genetic modeling and phylogenomic analysis. Desirable skills for this project include familiarity with Linux operating systems and computer programming (Perl, Python, and/or R), as well as previous experience analyzing population genetic

data.

How to Apply:

Funding for this position is available for 1 year with the possibility of extension. The annual salary will range from \$36,000 - \$42,000/year, depending on experience, and health insurance benefits are provided. To apply, please send a single pdf with a cover letter, a CV, 1-2 representative publications, and names and contact information for 3 references to Dr. Sean Schoville, email: sean.schoville@wisc.edu, by December 21, 2015. The start date is flexible but preference will be given to candidates that can begin early in 2016. The University of Wisconsin is an equal opportunity/affirmative action employer.

For more information about the research in our groups, please go to:

<http://labs.russell.wisc.edu/molecularecology/> <http://blog.uvm.edu/yfanslow/> <http://entomology.umd.edu/hawthorne-david.html> – Sean Schoville University of Wisconsin-Madison Department of Entomology 1630 Linden Drive 637 Russell Labs Madison, WI 53706 Office phone: 608-262-2956 <http://labs.russell.wisc.edu/molecularecology> Sean Schoville <sean.schoville@wisc.edu>

UWisconsinMadison PopulationGenomics

Postdoctoral Researcher in Population Genomics

The research group of John Pool at the University of Wisconsin-Madison invites applications for a postdoctoral research position. Our priority is to make a 'dry lab' hire focusing on evolutionary genomic analysis and statistical method development. Potential projects could include:

* Leading version 2.0 of the *Drosophila* Genome Nexus, to include >1000 *D. melanogaster* genomes (<http://johnpool.net/genomes.html>)

* Analysis of RNAseq data in a population genetic framework, to identify gene expression and alternative splicing changes driven by natural selection.

* Population genomic analyses of *Drosophila melanogaster*. Our interests include local adaptation and evidence for selection in admixed populations: <http://mbe.oxfordjournals.org/content/early/2015/09/08/molbev.msv194.abstract> * Developing new methods

to learn about natural selection and population history from genomic variation, and to disentangle these forces.

Our research group was founded four years ago and currently consists of the PI, three postdocs, two PhD students, and five undergraduate researchers: <http://www.johnpool.net/people.html> UW-Madison provides a superb scientific environment, with colleagues in population genetics and evolutionary genomics including David Baum, Sean Carroll, Cameron Currie, Colin Dewey, John Doebley, Audrey Gasch, John Hawks, Chris Hittinger, Carol Lee, Lawrence Loewe, Bret Payseur, Nicole Perna, Sushmita Roy, Sean Schoville, and Prashant Sharma. A more complete list of evolution-oriented labs can be found on the James F. Crow Institute web site: http://www.evolution.wisc.edu/view_faculty There are more than a dozen *Drosophila* groups on campus. A partial list of fly groups can be found at: <http://www.genetics.wisc.edu/Drosophila.htm> Madison offers an exceptional quality of life in a beautiful natural setting. Downtown and campus are bordered by lakes, and the area includes a number of long distance bike trails. Madison features diverse art, music, and cultural offerings. A great farmers market and a focus on local food are complemented by a wide range of international restaurants. Madison has been ranked the best city in America for young adults (Kiplinger 2012) and has appeared on a slew of "top cities" lists, including lists for: families, dogs, biking, walking, nature, green-ness, safety, public schools and educated population, health and fitness, vegetarians, friendliness, arts, biotech, careers, quality of life, and so on: <http://www.visitmadison.com/media/rankings/> Applicants should send a CV and contact information for three references to jpool@wisc.edu. In addition, applicants should send a statement of research interests, addressing both long term scientific interests and specific overlap with the Pool lab's research. This statement should also address the applicant's background with regard to computational biology (e.g. programming; analysis of next gen sequence data and/or other large data sets), as well as the concepts and statistics of population genetics.

The start date is flexible (within the next year) - please indicate the range of start dates you would consider and prefer. Salary is according to the NIH scale (currently starting at \$42,840 for new postdocs). Individual or family health insurance is offered with a small monthly contribution.

Applications will be reviewed as they are received, but should arrive by October 31 for full consideration.

Feel free to contact me with any questions (jpool@wisc.edu).

John Pool Assistant Professor Laboratory of Genetics

University of Wisconsin-Madison

“jpool@wisc.edu” <jpool@wisc.edu>

Western Australian Museum Biodiversity

Postdoc opportunity

The purpose of this position is to work undertake molecular research on a range of marine and terrestrial taxa from the North West of Australia. Specific duties include (but are not limited to): Undertaking phylogenetic, phylogeographic and population genetic research using next generation sequencing data. Publishing scientific papers in peer-reviewed journals on the subject of molecular systematics. Providing analytical support for staff and students at the Molecular Systematics Unit.

More information:

<http://www.seek.com.au/job/29645376?posi&type=standard&engineConfig=control&tier=no.tier&whereid=000> applications close 6 Nov 2015

more enquiries to nerida.wilson@museum.wa.gov.au or joel.huey@museum.wa.gov.au

hueyjoel@gmail.com

ZFMK Germany Arachnid Phylogenetics

JOB ANNOUNCEMENT Postdoc in Molecular Phylogenetics Arachnology Bonn, Germany; 1.5 years

The Arthropod department of the Alexander Koenig Research Museum of Zoology (ZFMK) invites applications for the position of a postdoctoral fellow in the Arachnida Section. The candidate will work in a project on Southeast Asian pholcid spiders funded by the German Research Foundation (DFG). He/she is expected to focus on one of the backbones of the project, i.e. on the molecular phylogeny of the family.

The candidate will continue and finish the work started by another postdoc (who left the project because he got a full permanent position). Our aim is to create one of the most comprehensive molecular phylogenies of any major spider family (with about 25% of all described species and 85% of all known genera included), based on seven genes.

We are looking for a candidate with experience in the generation, analysis, and publication of molecular data for phylogenetic purposes. Background in arachnology is not required. He/she will closely cooperate with the PI of the project (B.A. Huber), with the molecular lab assistants at ZFMK, and with D. Dimitrov (Oslo Univ.) (analysis of data). He/she will be responsible for all steps ranging from DNA extraction, amplification, sequencing, continuous analysis and quality control of newly added data, submission of sequences to online repositories, submission of DNA to ZFMK Biobank, to the final publication in a high-quality journal. Capacity for additional independent manipulation and analysis of the data is welcome and encouraged.

We offer a dynamic and motivating environment and flexible working hours, in a department with several young and active researchers working on different arthropod groups. Bonn is a small but attractive international city. Salary and benefits are according to a public service position in Germany (TVL-13, 65%).

The ZFMK advocates gender equality. Women are therefore encouraged to apply. Equally qualified severely handicapped applicants will be given preference. Command of German will be helpful but is not required. The contract will start as soon as possible (not later than summer 2016) and will be restricted to 1.5 years.

Please send your application by E-mail attachment, including a detailed CV, a statement on experience with molecular phylogenetic work, PDFs of relevant publications, and names of two potential referees to Dr. Bernhard A. Huber (E-mail: b.huber@zfmk.de). The call is open until a suitable candidate is found. Please direct enquiries to the same E-mail address.

Dr Bernhard A Huber - Arachnida

Zoologisches Forschungsmuseum Alexander Koenig Leibniz Institute for Animal Biodiversity Adenauerallee 160, D-53113 Bonn, GERMANY 0049 (0)228 9122 294

<http://www.zfmk.de/~bhuber1/> <http://www.uni-bonn.de/~J.Astrin.ZFMK@uni-bonn.de>
“J.Astrin.ZFMK@uni-bonn.de”
<J.Astrin.ZFMK@uni-bonn.de>

Workshops Courses

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Barcelona GenomicDataAnalysis Feb1-5

Dear Colleagues,

There are some places available for the course “Introduction to Genomic Data Analysis using HapMap and 1000 genomes projects 5th edition”; February 1-5, 2016.

Instructors: Dr. Marc Via (University of Barcelona, Spain) and Dr. Robert Carreras-Torres (International Agency for Research on Cancer, France).

Site: Premises of Sabadell of the Institut Català de Paleontologia Miquel Crusafont (Barcelona, Spain).

In this course you will get familiar with the data arising from The HapMap and the 1000 Genomes Projects and learn how to use it alone or in combination with other datasets to answer genetic, demographic and evolutionary questions.

The course will alternate theory with practical computer exercises but it will focus on hands-on training. Although examples will be based on single-nucleotide polymorphism (SNP) data in human individuals, most topics covered in this course can be extended to other types of markers and organisms.

More information and registration: <http://www.transmittingscience.org/courses/gen/hapmap/>
This course will be held in the Sabadell facilities of the Institut Català de Paleontologia (Barcelona, Spain) and is co-organized by Transmitting Science and the

Institut Català de Paleontologia M. Crusafont.

With best regards

Sole

Soledad De Esteban-Trivigno, PhD.

soledad.esteban@transmittingscience.org

Crete ComputationalMolEvol May8-19

Dear Community,

The 8th summer school on computational molecular evolution that I am organizing with Ziheng Yang, Nick Goldman, Aidan Budd, and Laura Emery will take place from May 8 - 19 2016 in Crete, Greece again.

The strict application deadline is in 10 days on October 30.

Please visit the course web-site for further details.

<http://events.embo.org/16-computational-evolution/Alexis>

– Alexandros (Alexis) Stamatakis

Research Group Leader, Heidelberg Institute for Theoretical Studies Full Professor, Dept. of Informatics, Karlsruhe Institute of Technology Adjunct Professor, Dept. of Ecology and Evolutionary Biology, University of Arizona at Tucson

www.exelixis-lab.org alexandros.stamatakis@gmail.com

ManchesterU Morphometrics Nov2-Dec11 Deadline

Dear colleagues

I would like to remind you that the deadline for registration for this year's online course in morphometrics is coming up soon: the *23 October 2015*.

Registration is via the university's e-store, which can process automatic *payments by credit card or debit card*.

If you cannot pay by credit or debit card, or if you require a formal invoice (e.g. for reimbursement by your institution), please contact the Short Course Office in our faculty *immediately* via this E-mail: FLS-shortcourses@manchester.ac.uk

Further information on the course and a link to the registration page can be found on the following website: <http://www.flywings.org.uk/MorphoCourse> This year's course will run in the six weeks from 2 November to 11 December 2015.

Course content: * Data acquisition: the kinds of data and the equipment used to collect them. * Definitions of size and shape * Geometric methods to characterise shape from a configuration of landmark points (Procrustes superimposition) * Statistics of variation, scatter plots, basic multivariate statistics * Principal component analysis * Measurement error and outliers * Shape transformations and 'warping' – the thin plate spline * Analysis of outline shapes * Distinguishing between groups (taxonomy, clinical diagnosis, etc.) * Allometry and size correction * Influence of external factors on shape (ecomorphology, dose-response studies) * Symmetric forms and measurement of asymmetry. * Morphometric inferences on developmental processes * Morphological integration and modularity * Genetics of shape: analyses of resemblance between relatives, QTL analyses. * Phylogeny: reconstructing the evolution of shape

Practice examples: As far as possible, practical exercises are provided to accompany the course content. These practice exercises consist of data sets and explanations on how to run the respective analyses using the MorphoJ software (http://www.flywings.org.uk/MorphoJ_page.htm). Participants who already have their own data are encouraged to use those and to discuss them as part of the course. I hope there will be a

bit of a 'workshop' feel to the course unit.

Group work: Participants will work in small groups to prepare web presentations of possible morphometric studies (wikis prepared by the groups). This activity stimulates discussion and provides a broad overview of the broad range of questions that can be addressed with morphometric methods.

The fee for the course is GBP 330.00.

For further details and a link to the registration page, see the course web page: <http://www.flywings.org.uk/MorphoCourse> Best wishes, Chris

Christian Peter Klingenberg Faculty of Life Sciences
The University of Manchester Michael Smith Building
Oxford Road Manchester M13 9PT United Kingdom

Telephone: +44 161 275 3899 Fax: +44 161 275 5082 E-mail: cpk@manchester.ac.uk Web: <http://www.flywings.org.uk> Skype: [chris.klingenberg](https://www.skype.com/user/chris.klingenberg)

"cpk@manchester.ac.uk" <cpk@manchester.ac.uk>

NHM London BotanicalTaxonomy Mar7-11

Short course on taxonomic principles and tools in botanical research 7-11 March 2016, Natural History Museum, London Applications are open for a short course on plant taxonomy and identification funded by the UK's Natural Environment Research Council (NERC). The course is taught by NHM taxonomic specialists and makes use of the outstanding botanical collections of the Museum. Specialist training is offered in vascular plants (flowering plants and ferns), bryophytes, lichens and marine macroalgae (red, brown and green seaweeds). The course comprises two days of lectures and demonstrations and three days of practical sessions, comprising one day in the field and two days in the herbarium/laboratory. The course is available to environmental science researchers and PhD students. There are 25 spaces available, and priority will be given to those with NERC funding. The deadline for applications is 18th January 2015. For more details see: <http://www.nhm.ac.uk/our-science/courses-and-students/short-course-taxonomic-principles-botanical-research.html#sthash.QNkXK6L3.dpuf>

Rome NGSVariantCalling Nov23-27

Deadline for applications is approaching for the ELIXIR-ITA training course “NGS for evolutionary biologists: from basic scripting to variant calling”. Applications are welcome until Friday 23/10/2015!

ELIXIR-ITA, in collaboration with CINECA and Sapienza Università di Roma is pleased to inform you that the applications for the upcoming training course on “NGS for evolutionary biologists: from basic scripting to variant calling” are now open.

IMPORTANT DATES for this Course: Deadline for applications: 23/10/2015 <calendar:T2:23/10/2015> Latest notification of acceptance: 31/10/2015 <calendar:T2:31/10/2015> Course date: 23-27/11 <calendar:T2:23-27/11>/2015

Venue: CINECA Auditorium, via dei Tizii 2/C, Rome, Italy

A maximum of 20 candidates will be selected based on their research profile. Notifications of acceptance will be sent shortly after the closing date of registration. Priority will be given to candidates from ELIXIR-ITA member institutions and ELIXIR nodes. Should you have any question, do not hesitate to contact the ELIXIR-ITA training coordinator, Dr Allegra Via, at allegra.via@uniroma1.it or elixir.ita.training@gmail.com.

Full details at: <http://-bioinformaticstraining.pythonanywhere.com> Instructors: Chiara Batini (University of Leicester, UK) Tiziana Castriñana² (CINECA, Rome, IT) Giovanni Chillemi (CINECA, Rome, IT) Vincenza Colonna (CNR, Napoli, IT) Pille Hallast (University of Tartu, ES) Allegra Via (Sapienza Università di Roma, IT)

Course description This course will provide an introduction to next generation sequencing platforms, data analysis and tools for data quality control, including alignment to a reference sequence, data handling and visualisation, and variant calling and filtering (single nucleotide polymorphisms and structural variants). The course will be delivered using a mixture of lectures and computer based hands-on practical sessions, including mini-projects to be completed by the participants using the knowledge gained at the course. These will cover the general topics of population structure and admixture, demographic changes and natural selection. This course is aimed at PhD students and post-doctoral re-

searchers who are applying, or will apply in the near future, high throughput sequencing technologies and the related bioinformatics tools in their research. Participants with limited UNIX/Linux and R/Bioconductor experience will be provided with basic understanding of the command-line operations and the foundations of the R programming language on the first day of the course.

Thank you for your interest,

The Organisers Chiara Batini (University of Leicester, UK) Giovanni Chillemi (CINECA, Rome, IT) Allegra Via (Sapienza Università di Roma, IT)

cb334@leicester.ac.uk

SanDiego ConservationGenomics Jan9-13

Population and Conservation Genomics Workshop Plant and Animal Genome XXIV International Conference <http://www.intlpag.org/> January 9-13, 2016 Town and Country Convention Centre, San Diego, California

The annual Population and Conservation Genomics workshop will be held at the Plant and Animal Genome XXIV International conference. The workshop is scheduled on Saturday, January 9, 2016. You are invited to attend this Workshop and submit abstracts for oral presentations on any population and conservation genomics aspect of both plants and animals. The topics may include: population genomic diversity and structure; molecular evolution; adaptive molecular genetic variation; natural selection and local adaptation; candidate-gene and genome-wide population studies; application of genomics in conservation and management of genetic resources; genomic effects of domestication, management practices, fragmentation, bottlenecks, climate and environment change, and transgenic deployment; and gene conservation; etc.

The workshop has a slot for six invited speakers. A number of invited presentations will be selected from the submitted abstracts. Please send your abstract of no more than 250 words by e-mail to Om Rajora (Om.Rajora@unb.ca) as an attached Word file no later than October 16, 2015. You will be notified by October 23th whether your abstract has been selected for an oral presentation. Thereafter, the selected presenters will need to submit their abstract to the PAG website. Authors whose abstracts are not selected for oral presentations are highly encouraged to present a poster at

the conference.

Inquiries and Abstract Submission

For information and questions regarding the Population and Conservation Genomics workshop, please contact Om Rajora at the following coordinates.

Dr. Om P. Rajora, Faculty of Forestry and Environmental Management, University of New Brunswick, Fredericton, NB E3B 5A3, Canada.

E-mail: Om.Rajora@unb.ca Tel: (506) 458-7477 Fax: (506) 453-3538

om.rajora@unb.ca

SanDiego PAG- PopulationConservationGenomics Jan9-13

Last Call Population and Conservation Genomics Workshop Plant and Animal Genome XXIV International Conference <http://www.intlpag.org/> January 9-13, 2016 Town and Country Convention Centre, San Diego, California

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Dr. Om P. Rajora, Faculty of Forestry and Environmental Management, University of New Brunswick, Fredericton, NB E3B 5A3, Canada.

E-mail: Om.Rajora@unb.ca Tel: (506) 458-7477 Fax: (506) 453-3538

Om Rajora <om.rajora@unb.ca>

Scene Glasgow IsotopeStatistics Jan12-15

Statistics Course - Stable Isotope Mixing Models (SIMMs) using SIAR, SIBER AND MixSIAR

This course will be run from January 12th - 15th 2016 at SCENE (Scottish Centre for Ecology and the Natural Environment), in Loch Lomond National Park, Glasgow, United Kingdom

This course will cover the concepts, technical background and use of stable isotope mixing models (SIMMs) with a particular focus on running them in R. Recently SIMMs have become a very popular tool for quantifying food webs and thus the diet of predators and prey in an ecosystem. Starting with only basic understanding of statistical models, we will cover the dos and don'ts of using SIMMs with a particular focus on the widely used package SIAR and the new, more advanced MixSIAR. Participants will be taught some of the advanced features of these packages, which will enable them to produce a richer class of output, and are encouraged to bring their own data sets and problems to study during the round-table discussions.

Curriculum:

Day 1: Basic concepts

Class 1: Introduction; why use a SIMM?

Class 2: An introduction to Bayesian Statistics.

Class 3: Differences between regression models and SIMMs.

Practical: revision on using R to load data, create plots

and fit statistical models

Round table discussion: understanding the output from a Bayesian model

Day 2: Understanding and using SIAR

Class 1: Dos and Don'ts of using SIAR

Class 2: The statistical model behind SIAR

Practical: Using SIAR for real-world data sets; reporting output; creating richer summaries and plots of the results

Round table discussion: Issues when using simple SIMMs

Day 3: SIBER and MixSIAR

Class 1: Creating and understanding Stable Isotope Bayesian Ellipses (SIBER)

Class 2: What are the differences between SIAR and MixSIAR?

Practical: Using MixSIAR on real world data sets; benefits over SIAR

Round table discussion: When to use which type of SIMM

Day 4: Advanced SIMMs

Class 1: Using MixSIAR for complex data sets: time series and mixed effects models

Class 2: Source grouping: when and how?

Class 3: Building your own SIMM with JAGS

Practical: Running advanced SIMMs with JAGS

Round table discussion: Bring your own data set

Cost is £500 for the 4 days including lunches and refreshments or £645 for an all-inclusive option which includes the addition of accommodation, breakfast, lunch, dinner and refreshments.

For further details or questions or to register please email oliverhooker@prstatistics.co.uk or visit www.prstatistics.co.uk Please feel free to distribute this material among colleagues if you think it is suitable

Additional upcoming courses; GENETIC DATA ANALYSIS USING SIAR; ; APPLIED BAYESIAN MODELLING FOR ECOLOGISTS AND EPIDEMIOLOGISTS; SPATIAL ANALYSIS OF ECOLOGICAL DATA USING R; ADVANCING IN R. PYTHON FOR BIOLOGISTS; INTRODUCTION TO STATISTICS AND R FOR BIOLOGISTS; DNA TAXONOMY; TIME SERIES ANALYSIS FOR ECOLOGISTS AND CLIMATOLOGISTS; BIOINFORMATICS FOR GENETICISTS AND BIOLOGISTS; MULTIVARIATE ANAL-

YSIS OF SPATIAL DATA;

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SCENE Glasgow Modelling Using R Nov30-Dec4

"Advancing in statistical modelling using R"

Delivered by Dr Luc Bussiere and Dr Tom Houslay This course will run from 30th November - 4th December 2015 at SCENE, Loch Lomond national park, Glasgow, Scotland

This 5 day course costs £460 for course only including lunch or £635 all inclusive, including all accommodation and meals and minibus connections to and from a local meeting point.

The course is designed to bridge the gap between basic R coding and more advanced statistical modelling. It will consist of a series of modules (listed below), each lasting roughly half a day, and designed to either build required skills for future modules or to perform a family of analyses that is frequently encountered in the biological literature. Each module will include practical and self-assessment exercises to help attendees gauge their understanding of the concepts. All course materials (including copies of presentations, practical exercises, self-assessment problems, data files, and example scripts prepared by the instructing team) will be provided electronically to participants.

<http://prstatistics.co.uk/courses/advancing-in-r/-index.html> Course content is as follows Day 1:

Module 1 Introduction & data visualization using (graphics) and (ggplot2)

Module 2 Univariate regression, diagnostics & plotting fits

Day 2:

Module 3 Adding additional continuous predictors (multiple regression).

Module 4 Adding factorial (categorical) predictors & incorporating interactions (ANCOVA)

Day 3:

Module 5 Model selection & simplification (likelihood ratio tests, AIC)

Module 6 Mixed effects models in theory & practice

Day 4:

Module 7 Generalised Linear Models (binomial and count data)

Module 8 Nonlinear models (polynomial & mechanistic models)

Day 5:

Module 9 Combining methods (e.g., nonlinear mixed effect (NLME) models & generalised linear mixed effect (GLMM) models)

Module 10 Optional free afternoon to cover previous modules and discuss data

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Upcoming courses; APPLIED BAYESIAN MODELLING FOR ECOLOGISTS AND EPIDEMIOLOGISTS; SPATIAL ANALYSIS OF ECOLOGICAL DATA USING R; INTRODUCTION TO R AND STATISTICS FOR BIOLOGISTS; STABLE ISOTOPE MIXING MODELS USING SIAR, SIBER AND MIXSIAR; INTRODUCTION TO PYTHON FOR BIOLOGISTS; TIMES SERIES DATA ANALYSIS FOR ECOLOGISTS AND CLIMATOLOGISTS USING R; MODEL BASED MULTIVARIATE ANALYSIS OF ECOLOGICAL DATA USING R; ADVANCES IN DNA TAXONOMY USING R; GENETIC DATA ANALYSIS USING R.

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Scene Glasgow PythonForBiologists Feb1-5

INTRODUCTION TO PYTHON FOR BIOLOGISTS

This course is being delivered by Dr Martin Jones, an expert in Python and author of two text books,

Python for Biologists [<http://www.amazon.com/-/Python-Biologists-complete-programming-beginners/dp/1492346136/>]

Advanced Python for Biologists [<http://www.amazon.com/Advanced-Python-Biologists-Martin-Jones/dp/1495244377/>].

The course will run from 1st - 5th of February 2016 at SCENE (the Scottish Centre for Ecology and the

Natural Environment), Loch Lomond National Park, Glasgow.

Course overview: Python is a dynamic, readable language that is a popular platform for all types of bioinformatics work, from simple one-off scripts to large, complex software projects. This workshop is aimed at complete beginners and assumes no prior programming experience. It gives an overview of the language with an emphasis on practical problem-solving, using examples and exercises drawn from various aspects of bioinformatics work. After completing the workshop, students should be in a position to (1) apply the skills they have learned to tackle problems in their own research and (2) continue their Python education in a self-directed way.

Intended audience:

This workshop is aimed at all researchers and technical workers with a background in biology who want to learn programming. The syllabus has been planned with complete beginners in mind; people with previous programming experience are welcome to attend as a refresher but may find the pace a bit slow.

Teaching format:

The workshop is delivered over ten half-day sessions (see the detailed curriculum below). Each session consists of roughly a one hour lecture followed by two hours of practical exercises, with breaks at the organizer's discretion. There will also be plenty of time for students to discuss their own problems and data.

Assumed background:

Students should have enough biological background to appreciate the examples and exercise problems (i.e. they should know about DNA and protein sequences, what translation is, and what introns and exons are). No previous programming experience or computer skills (beyond the ability to use a text editor) are necessary, but you'll need to have a laptop with Python installed.

Curriculum:

Day 1:

Module 1 - Introduction

Module 2 - Output and text manipulation

Day 2:

Module 3 - File IO and user interfaces

Module 4 - Flow control 1: loops

Day 3:

Module 5 - Flow control 2: conditionals

Module 6 - Organizing and structuring code

Day 4:

Module 7 - Regular expressions

Module 8 - Dictionaries

Day 5:

Module 9 - Interaction with the file system

Module 10 - Optional free afternoon to cover previous modules and discuss data

The cost is £500 including lunches and course materials. An all-inclusive option is also available at £710; this includes breakfast, lunch, dinner, refreshments, accommodation and course materials. Participants will need a laptop with a recent version of Python installed.

Please send inquiries to oliverhooker@prstatistics.co.uk or visit the website www.prstatistics.co.uk Please fee free to distribute this information anywhere you think suitable

Other upcoming courses - GENETIC DATA ANALYSIS USING SIAR; ; APPLIED BAYESIAN MODELLING FOR ECOLOGISTS AND EPIDEMIOLOGISTS; SPATIAL ANALYSIS OF ECOLOGICAL DATA USING R; ADVANCING IN R. PYTHON FOR BIOLOGISTS; INTRODUCTION TO STATISTICS AND R FOR BIOLOGISTS; DNA TAXONOMY; TIME SERIES ANALYSIS FOR ECOLOGISTS AND CLIMATOLOGISTS; BIOINFORMATICS FOR GENETICISTS AND BIOLOGISTS; MULTIVARIATE ANALYSIS OF SPATIAL DATA;

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SCENE Glasgow SpatialAnalysisR Nov16-20

"Spatial analysis of ecological data using R"

Delivered by Prof Jason Matthiopoulos

This course will run from 16th - 20th November 2015 at SCENE, Loch Lomond national park, Glasgow, Scotland

This 5 day course costs £500 for course only including lunch or £650 all inclusive, including all accommodation and meals and minibus connections to and from a local meeting point.

The course will cover the concepts and R tools that can be used to analyse spatial data in ecology covering elementary and advanced spatial analysis techniques applicable to both plants and animals. We will investigate analyses appropriate to transect (e.g. line surveys, trapping arrays), grid (e.g. occupancy surveys) and point data (e.g. telemetry). The focal questions will be on deriving species distributions, determining their environmental drivers and quantifying different types of associated uncertainty. Novel methodology for generating predictions will be introduced. We will also address the challenges of applying the results of these methods to wildlife conservation and resource management and communicate the findings to non-experts.

<http://prstatistics.co.uk/courses/spatial-analysis-in-R/-index.html> Course content is as follows

Day 1: Elementary concepts

Module 1 Introductory lectures; this will cover the key questions in spatial ecology, the main types of data on species distributions, concepts and challenges and different types of environmental data, concepts and challenges; useful concepts from statistics; Generalised Linear Models

Module 2 Density estimation, Spatial autocorrelation, Smoothing, Kernel Smoothers, Kriging, Trend-fitting (linear, generalised linear, generalised additive models)

Module 3 Habitat preference, Resource selection functions, MaxEnt: What's it all about? Overview and caveats related to Niche models

Day 2: Overview of basic analyses

Module 4 Analysing grid data, Poisson processes, Occupancy models, Use-availability designs

Module 5 Analysing telemetry data, Presence-only data, Spatial and serial autocorrelation, Partitioning variation by mixed effects models

Module 6 Analysing transect data, Detection functions for point and line transects, Using covariates in transect models

Day 3: Challenging problems

Module 7 Advanced methods, Generalised Estimation Equations for difficult survey designs, Generalised additive models for habitat preference, Dealing with boundary effects using soap smoothers, Spatial point processes with INLA

Day 4: Delivering advice

Module 8 Prediction, Validation by resampling, Generalised Functional Responses for species distribution, Quantifying uncertainty, Dealing with the effects of population density

Module 9 Applications, Designing protected areas, thinking about critical habitat, Representing uncertainty

Day 5: Hands-on problem solving

Module 10 Round table discussions, About 4 groups, each of 5-10 people working on a particular problem.

Please email any inquiries to oliverhooker@prstatistics.co.uk

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Oliver Hooker

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“oliverhooker@prstatistics.co.uk”

<oliverhooker@prstatistics.co.uk>

UCopenhagen MicrobeSymbioticInteractions May23-27

Phd Course: Chemical and Genomic Insight to Host-Microbe Symbiotic Interactions

Link: <http://www.nmbu.no/en/students/nova/-students/phd-courses/phd-2016/node/23615> NOVA PhD course of 2.5 ECTS, organised by Henrik Hjarvard de Fine Lich and Michael Poulsen, University of Copenhagen.

Dates and location: 23-27 May 2016 in Copenhagen, Denmark.

Course Description Advances over the past years have provided a range of genomic and chemical tools applicable to research in host-symbiont interactions. This course will introduce and critically address these tools with the primary objective of providing PhD students with extensive knowledge of the applicability of tools to their own work. The course mainly addresses PhD students early in their PhD and who work with interactions between hosts and symbionts at the molecular level.

Content Symbioses are omnipresent and play major roles in the ecology and evolution of the organisms involved. The course will provide an overview of the diversity of symbiotic systems with particular focus on examples, where genomics and chemical tools have been employed to shed new light on interactions. Students will be introduced to applicable methodologies in microbial interaction research.

Programme Outline Each course day will have a specific theme.

* Monday: introduction and lectures and workshops on symbiosis, ending with student presentations of their PhD projects. * Tuesday: genomics and metagenomics. * Wednesday: transcriptomics and proteomics approaches. * Thursday: signalling molecules and natural products. * Friday: student presentations on harvesting workshop results.

Learning Outcomes Knowledge on:

* The formation, maintenance and evolution of beneficial symbioses. * The importance of cross talk and signalling in symbioses. * Genomic and analytical tools that can be applied to answer questions in symbioses,

and how these can be used in an interdisciplinary way.

Skills to:

* Identify tools to apply to their own (and peers') research. * Find literature and tools in symbioses research. * Use online tools to analyse (meta)genomes. * Get an overview about possible new aspects and solutions to their PhD projects. * Get to know new collaboration partners.

Competences to:

* Assess opportunities and limitations of genomic and analytical tools. * Critically evaluate published work, other's work and their own work. * Develop new ideas for projects of their own and of peers.

Pre-/Post-Campus Assignments Pre-Campus Background reading, preparation of questions for specific topics, preparation of short presentation of PhD thesis/topic, and preparation of own data sets to work on during the workshop.

Post-Campus An online evaluation form will be provided to students to evaluate the course outcome, and the students will be provided with contacts information for each other and teachers to immediately expand their international research network.

Evaluation Elements The course will require active participation enforced through presentations by each student, which can readily be evaluated. Short presentations on the progress students have made in incorporating the topics covered to their own research questions will be required, so that students have to be actively engaged during the week to be able to put this together.

Pedagogical Approach The course will combine traditional lectures, online tools, computer exercises, and student presentations to uphold diverse approaches that satisfy different learning modes. All components will require active participation, as this is expected to facilitate deeper learning. To maximize teaching styles, student tasks will also be diverse, as they will work individually and in groups, train presentation skills, and be stimulated to critical thinking by sparring ideas. Estimated Workload

* 15 hours seminar * 15 hours lecture * 15 hours exercises * 30 hours reading before the course, making presentations before and during the course

Prerequisite Knowledge Course participants should be enrolled in a PhD with a strong focus on biology, biochemistry, agriculture or bioinformatics, and ideally work with a question related to host-symbiont interactions in their own research, but the course will also be relevant for students considering host-symbiont research.

Admission Admission for NOVA courses is handled by the course organiser/ the NOVA member institution organising the course. Please see the links in the margin for more information.

Henrik Hjarvard de Fine Licht, Assistant Professor, PhD Section for Organismal Biology, Department of Plant and Environmental Sciences University of Copenhagen, Thorvaldsensvej 40, 1871 Frederiksberg C. Denmark Tel: +45 3532 0097 Email: hhdefinelicht@plen.ku.dk

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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>

UGroningen CommunityDynamics Nov15-20

Winter school Linking Community and Ecosystem Dynamics: final programme

The Research School Ecology & Evolution of the Groningen Institute for Evolutionary Life Sciences (GELIFES, University of Groningen) is organizing a Winterschool for international PhD students and Postdocs on Linking Community and Ecosystem Dynamics. The school will be held in the University field station 'Herdershut' on the Dutch island of Schiermonnikoog from November 15 - 20 2015.

Scope of the course

The research fields community and ecosystem ecology have diverged more or less independently over the last decennia. Progress is made in understanding shifts in community composition under the influence of environmental change and how these shifts can be explained by functional trait approaches of component species. Studies in ecosystem ecology traditionally have a strong focus on energy and nutrient fluxes and how deviation in these fluxes affect ecosystem functioning and stability. Recent studies reveal tight links between these sub-disciplines that enforce us to rethink how communities and ecosystems interact.

This course focuses on theoretical concepts such as autocatalytic loops and feedbacks between organisms, thermodynamics in species interactions and the importance of ecosystem engineers. We will explore how these principles can be used to link communities to ecosystems in

order to understand how environmental change affects community and ecosystem dynamics.

Course lecturers include Prof. Neil Rooney (U. of Guelph), Prof. Han Olf (U. of Groningen), Prof. Matty Berg (Free University Amsterdam), Prof. Tjeerd Bouma (Netherlands Institute for Sea Research).

Further information, including the programme, can be found on the course webpage of the Research School Ecology & Evolution: <http://www.rug.nl/research/ecology-and-evolution/phdcourses/communityecosystems2015>

Registration for the course is now open.

Maartje Giesbers <m.c.w.giesbers@rug.nl>

Idaho LandscapeGenetics Jan13-May4

Online Landscape Genetics Graduate Student Course

When: Jan 13 - May 4, 2016, Wed 8:30 - 10:30 PST

Cost 50 individuals, 000 Groups

Course Organizers: Helene Wagner, Melanie Murphy, and Lisette Waits

Co-Instructors: Niko Balkenhol, Sam Cushman, Rodney Dyer, Andrew Eckert, Marie-Josée Fortin, Caren Goldberg, Nusha Keyghobadi, Erin Landguth, Stephanie Manel, Brad McRae, Kim Selkoe, Steve Spear, and others

Course description

This course on Landscape Genetics provides a unique opportunity for interdisciplinary training and provides an overview of the field of landscape genetics. The course caters to students in both basic and applied ecology, especially conservation/population genetics, landscape ecology and conservation biology. A key objective of landscape genetics is to study how landscape modification and habitat fragmentation affect organism dispersal and gene flow across the landscape. Landscape genetics requires highly interdisciplinary specialized skills making intensive use of technical population genetic skills and spatial analysis tools (spatial statistics, GIS tools and remote sensing). Even when students receive disciplinary training in these areas, educational programs often lack the necessary linkage and synthesis among disciplines. This linkage can only be accomplished after experts from each discipline work together to develop

guiding principles for this new research area.

Landscape Genetics will be concurrently offered at six universities in North America and Europe giving students the opportunity to learn from international experts and work with peers from outside institutions. For students who are not members of the participating institutions, we are offering a web-based online course to reach a broader audience. Each course meeting will start with a live web-cast lecture (no special software required) by an expert on the topic that introduces foundations and methods and highlights points for discussion in local seminar groups. After breaking out into local course group discussion (including a discussion group for online course students), a web-based discussion across campuses will wrap up the weekly topic. Students who are unable to make it to live-cast of lectures can view taped lectures. In addition, students can choose to participate in an optional lab section using R and/or interdisciplinary group term projects with web-based collaboration across institutions. The final two options are provided to help students develop analytical skills in Landscape Genetics. Students who participate in group projects will have the option of applying to attend a project synthesis meeting in Coeur d'Alene, Idaho in May 2016.

Course topics

- Landscape genetics framework, Measuring gene flow, Alternative views of landscapes - Spatial analysis framework, Identifying discrete populations - Incorporating landscape data, Matrix resistance approaches in landscape genetics - Distance-based methods, Model selection and validation - Role of simulation modeling, Network-based methods - Landscape genetics of adaptive variation

Course Textbook: Landscape genetics: Concepts, methods, applications. 2015. Balkenhol, Cushman, Storfer, Waits, eds, Blackwell.

Faculty who would like to add a local section of the course at their university can register as a group or multiple students at one institution can register as a group. However, note that only one log in will be provided per group.

How to register? <http://www.jooners.com/guest?l=-3D3De867e8be-02f7-400e-b446-e90c699502b7>

Note: University credit will not be provided but students who need course credit can set up an independent study course at their home institution and turn in specific assignments during the semester. Contact Lisette Waits if you are interested in this option.

Lisette

Lisette Waits, PhD Distinguished Professor Department
Head Dept Fish and Wildlife Sciences University of
Idaho 875 Perimeter Drive MS 1136 Moscow ID 83844-
1136 Phone: (208) 885 7823 <http://www.uidaho.edu/cnr/fishwild/lisettewaits> lwaits@uidaho.edu

REGISTER HERE: <http://bis15.amsi.org.au/> Simi
Henderson <simi@amsi.org.au>

USydney BioInfoSummer Dec7-11

BioInfoSummer 2015 The University of Sydney 7-11
December Website: <http://bis15.amsi.org.au/> Bioinfor-
matics, is an exciting, fast moving area analysing and
simulating the structures and processes of biological sys-
tems. BioInfoSummer provides bioinformatics training
to students, researchers and others working in related
areas.

The 2015 event includes both specialist lectures and
hands on introductory and advanced computer work-
shops: * Introduction to Biology and Bioinformatics
* Epigenomics * Translational Genomics * Proteomics
and Metabolomics * Systems Biology, Networks and
Data Integration

Speakers include:

* Prof. Terry Speed, Walter and Eliza Hall Institute of
Medical Research * Prof. Claire Wade, University of
Sydney * Prof. Sue Wilson, Australian National Uni-
versity * Prof. Sue Clark, Garvan Institute of Medical
Research * Dr Alicia Oshlack, Murdoch Childrens Re-
search Institute * Dr Jovana Maksimovic, Murdoch Chil-
drens Research Institute * Dr Joshua Ho, Victor Chang
Cardiac Research Institute * Dr Eleni Giannoulatou,
Victor Chang Cardiac Research Institute * Dr Judith
Zuagg, European Molecular Biology Laboratory * Prof.
Keith Baggerly, University of Texas MD Anderson Can-
cer Centre * Prof. Vanessa Hayes, Garvan Institute of
Medical Research * Dr Peter Kim, University of Sydney
* Dr Richard Edwards, University of New South Wales
* Prof. David James, University of Sydney * Assoc.
Prof. Katerina Kechris, University of Colorado Denver
* Dr Ioannis Xenarios, Swiss Institute of Bioinforma-
tics * Prof. Susan Holmes, Stanford University * Dr
Jerry Gao, Walter and Eliza Hall Institute of Medical
Research * Ms Shila Ghazanfar, University of Sydney
* Prof. Sean O'Donoghue, Garvan Institute of Medi-
cal Research * Prof. Shoba Ranganathan, Macquarie
University * Prof. Marc Wilkins, University of New
South Wales * Assoc. Prof. Aaron Darling, University
of Technology Sydney

WageningenU StructuralEquationModelling Dec14-18

We are pleased to announce a postgraduate course on
Structural Equation Modelling, organised by the Gradu-
ate School for Production Ecology and Resource Conser-
vation (PE&RC) of Wageningen University, Netherlands.
The course will take place from Monday 14 to Friday 18
December 2015 at Wageningen University Campus. This
course will be lectured by Professor Bill Shipley, who
is one of the leading international experts in the field
of Path Analysis and Structural Equation Modelling.
Registration is now open at www.pe-rc.nl/sem! Scope:
While much of statistics focusses on associations between
variables and making predictions, the aim of structural
equation modelling is to establish causal relationships
between variables. In spite of the common belief that
any causal statement requires randomized experiments,
there is an increasing body of theory, methodology and
software which enables scientists to draw certain types
of causal conclusions from observational data. This has
important advantages, especially in cases where ran-
domized experiments are not feasible. Notably, causal
models allow the quantification of intervention effects,
which is the response of the system given a certain value
of one your variables (e.g. gene knock-out, rainfall).
This new course will explain the key concepts under-
lying causal inference, the required assumptions, and
how the interpretation of results differs from the case of
randomized experiments. To ensure that you learn from
the best, we managed to get Prof. Bill Shipley from the
Universit   de Sherbrooke in Canada to come over to
Wageningen to actually give this course. Prof. Shipley
is the author of "Cause and correlation in biology: A
user  s guide to path analysis, structural equations,
and causal inference", which by many is seen as the
guide for working with Path Analysis and Structural
Equation Models. The focus will be on classical struc-
tural equation models with a small number of (latent)
variables, but we will also give an introduction to recent
developments on methodology for high-dimensional data.
Throughout the course we will discuss applications in
ecology, social sciences and genetics. Depending on the
background and interests of the participants we may
put a stronger emphasis on some of these applications.

Participants are therefore encouraged to bring their own data.

Programme: Day 1: Introduction and background of structural equation models (SEM): causation versus correlation, causal inference versus classical statistics. Identifiability and estimation for models without latent variables.

Day 2: Testing and selecting your model: goodness of fit tests, model comparison, confirmatory and explanatory models.

Day 3: Adding latent (unmeasured) variables to your model; concept of latent variables, estimating SEMs with latent variables.

Day 4: The estimation of causal effects revisited: causal graphs, directed acyclic graphs and conditional independence, d-separation and faithfulness. The d-sep test.

Day 5: Applications of SEMs in ecology and genomics, e.g. causal inference for high-dimensional data with the R-packages `pcalg` and `qtlnet`.

General information: Target Group: The course is aimed at PhD candidates and other academics Group Size: Min. 15 / Max. 25 participants Course duration: 5 days Language of instruction: English Frequency of recurrence: Once every two years Number of credits: 1.5 ECTS Lecturers: Prof. Bill Shipley (Universit   de Sherbrooke, Canada) and Dr. Bob Douma (Centre for Crop Systems Analysis, Wageningen UR)

Prior knowledge: Although the emphasis will be on the concepts rather than mathematical properties, some basic knowledge of probability and statistics will be required to understand those concepts. In particular, we will assume familiarity with random variables, joint distributions of random variables, conditional distributions and multiple regression. Basic knowledge of R is recommended (e.g. installing packages, reading data-files, linear regression).

Location: Wageningen University Campus, Wageningen, Netherlands.

Fees: PE&RC / SENSE / EPS / WIAS / RSEE PhD candidates with an approved TSP 350, All other PhD candidates, postdocs and other academic staff 700, Participants from the private sector 1.400,

The course fee includes a reader, coffee/tea, and lunches. It does not include accommodation, but several options for inexpensive accommodation are available. The Early-Bird Fee applies to anyone who REGISTERS ON OR BEFORE 16 NOVEMBER 2015.

To register for this course, go to www.pe-rc.nl/sem.

For more information, please contact: Dr. Lennart

Suselbeek PhD Programme Coordinator C.T. de Wit Graduate School for Production Ecology & Resource Conservation (PE&RC) Wageningen Campus, LUMEN, Building 100, Room A.217 Droevendaalsesteeg 3-A, 6708 PB WAGENINGEN, The Netherlands e: lennart.suselbeek@wur.nl

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Weggis Switzerland AdaptationBioinformatics Feb28-Mar5

Winter School - Bioinformatics for Adaptation Genomics (B@G 2016) VENUE: Alexander & Gerbi Hotel, Weggis, Switzerland DATE: February 28th - March 5th 2016

The most up-to-date information is available here: <http://www.adaptation.ethz.ch/education/winter-school-2016.html> AIMS AND OBJECTIVES The application of next-generation sequencing (NGS) technologies to non-model organisms is now well-established and has unlocked new frontiers for research on adaptation genomics. Despite recent technological developments enabling an increasing number of projects to use genome-scale data, the analysis of such complex data sets still raises substantial analytical hurdles, particularly for researchers with primarily an ecological and evolutionary background. Bioinformatic pipelines offer an invaluable resource to process genomic data, but their underlying rationale often remains hard to understand, which poses significant challenges for their rigorous use and accurate interpretation of the results. The B@G Winter School provides an opportunity for researchers to penetrate the 'black box' behind the complex bioinformatics approaches available for investigating adaptation genomics; from the programs and assumptions necessary to produce a high quality SNP dataset from raw NGS data, to the in-depth interpretation of methods designed to detect signature of selection, demographic patterns and associations between genotypes and environment, and/or phenotypes. B@G teachers are established scientists with a primary role in the development of widely used bioinformatic software. Consequently, participants of the B@G Winter School will gain insight

into the foundations of these algorithms and what they do to the data, and will also receive advices on best practice in experimental design and analysis.

AUDIENCE The School is primarily aimed at evolutionary biologists who want to gain deeper knowledge on state-of-the-art methods used to detect evolutionary patterns from genome-wide nucleotide data. Applications from early career researchers (PhD and post-doctoral level), as well as faculty with a background in ecology, evolution or genetics, will be considered. The workshop is particularly aimed at candidates with experience of the Unix environment and who have tried using bioinformatic pipelines to analyse genomic data. Participants will be requested to bring their own laptop with which to connect to the server for the practical sessions.

Lessons will include lectures on the theoretical background of the programs and practical demonstrations given by the instructor, followed by hands-on exercises performed by the participants under guided supervision. Computing activity will rely on individual connections to the Genetic Diversity Centre (GDC, ETH Zurich) server, which will provide resources for demonstrations and practical training. Emphasis will be given to interpreting the output of the programs, with time for discussion to facilitate interactions between the instructor and the audience.

VENUE The school will be hosted at the Alexander & Gerbi Hotel in Weggis, Switzerland (<http://www.alexander-gerbi.ch>). Weggis is a scenic town located on the shore of Lake Lucerne in central Switzerland. The location was chosen to provide a friendly and stimulating work environment. The area is known for its relaxing character and peaceful mountain scenery.

COST Total fee for participants is 750.- CHF. This in-

cludes tuition and accommodation in double rooms with full board (Breakfast, Lunch, Dinner and coffee breaks) at the Alexander & Gerbi Hotel during the workshop. Accommodation in single rooms may be available upon request and with additional costs.

SCHOOL LECTURERS Dr. Jonathan Puritz - Harte Research Institute, USA Mr. Erik Garrison - Wellcome Trust Sanger Institute, UK Dr. Matteo Fumagalli - University College London, UK Prof. Dr. Daniel Wegmann - University of Fribourg, Switzerland Dr. Arthur Korte - Center for Computational and Theoretical Biology, University Würzburg, Germany

REGISTRATION The workshop will be limited to 30 participants. We ask that all interested participants submit a cover letter (1 page max) detailing their research interests, their level of bioinformatics experience, and their motivation for attending the workshop, as well as their CV (2 pages max) to BioinfAdapt@env.ethz.ch by November 15th 2015. Participants will be notified of the outcome of the selection process by November 27th 2015.

Funded by - Center for Adaptation to a Changing Environment (ACE), ETH Zurich, Switzerland - Institute of Evolutionary Biology and Environmental Studies, University of Zurich, Switzerland

ORGANISERS Chief organiser: Dr. Simone Fior, ETH Zurich, Switzerland (simone.fior@env.ethz.ch) Co-organisers: Dr. Martin C. Fischer, ETH Zurich, Switzerland (martin.fischer@env.ethz.ch)

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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>

Instructions

Instructions: To be added to the EvolDir mailing list please send an email message to Golding@McMaster.CA. At this time provide a binary six letter code that determines which messages will be mailed to you. These are listed in the same order as presented here — Conferences; Graduate Student Positions; Jobs; Other; Post-doctoral positions; WorkshopsCourses. For example to receive the listings that concern conferences and post-doctoral positions this would be 100010. Messages are categorized on the basis of their subject headings. If this subject heading is not successfully parsed, the message will be sent to me at Golding@McMaster.CA. In addition, if it originates from ‘blackballed’ addresses it will be sent to me at Golding@McMaster.CA. These messages will only be read and dealt with when I have time. The code 000000 has all channels turned off and hence gets only a once monthly notification of the availability of a monthly review pdf file.

To be removed from the EvolDir mailing list please send an email message to Golding@McMaster.CA. Note that ‘on vacation’, etc, style messages are automatically filtered and should not be transmitted to the list (I hope), but should you wish to avoid the e-mail’s your code can be temporarily changed to 000000.

To send messages to the EvolDir direct them to the email evoldir@evol.biology.McMaster.CA. Do not include encoded attachments and do not send it as Word files, as HTML files, as L^AT_EX files, Excel files, etc. . . . plain old ASCII will work great and can be read by everyone. Add a subject header that contains the correct category “Conference:, Graduate position:, Job:, Other:, Postdoc:, Workshop:” and then the message stands a better chance of being correctly parsed. Note that the colon is mandatory.

The message will be stored until the middle of the night (local time). At a predetermined time, the collected messages will be captured and then processed by programs and filters. If the message is caught by one of the filters (e.g. a subject header is not correctly formatted) the message will be send to me at Golding@McMaster.CA and processed later. In either case, please do not expect an instant response.

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 L^AT_EX do not try to embed L^AT_EX or T_EX in your message (or other formats) since my program will strip these from the message.