
E v o l D i r

December 1, 2013

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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Bath PopGenetics Jan7-10

The registration is open for PopGroup47, Bath UK, 7-10 Jan.

As many of you may already know the legendary conference, Population Genetics Group Meeting, will be taking place in the historic city of Bath, United Kingdom, from the 7th to the 10th of January 2014.

This is an update to let you know that we are offering early bird rates until 15th of November, with final registration and abstracts due by 2 December.

As you can see from our webpage, in addition to usual excellent content on evolutionary ecology and evolutionary genetics, there are several features of the meeting that we are particularly excited about. These include invited talks by Josephine Pemberton, Lilach Hadany, Fyodor Kondrashov and a special Fisher award lecture by Prof. William Hill. The opening reception, conference and banquet will be held in the historic Roman Baths and Assembly Rooms, nestled in the

heart of Bath. And, for the banquet we have booked two bands and an excellent caterer.

Please visit the PopGroup website (www.populationgeneticsgroup.org) for more details.

Best regards and hope to see you all here at Bath this winter.

Thanks and Regards,

Nick Priest Araxi Urrutia and the rest of the Pop-group47@BATH team.

Nicholas Priest <N.Priest@bath.ac.uk>

Cambridge EvolutionaryGenomics Mar18

Call for speakers: Evolutionary Genetics & Genomics Symposium, 18th March 2014, Cambridge, U.K.,

Evolutionary Genetics & Genomics Symposium 2014

The Evolutionary Genetics & Genomics Symposium

(EGGS) will be taking place in Cambridge (UK) on Tuesday 18th March 2014. The meeting is free to attend and no registration is required.

We are now looking for speakers. If you are interested in presenting a talk please send a title, abstract and your affiliation to cegsymposium@gmail.com by 14th February 2014.

Talks are expected to cover all areas of evolutionary genetics, including comparative genomics, evo-devo, pathogen evolution and speciation. The symposium will consist of around ten 15-minute talks as well as three longer talks from invited speakers.

Our three confirmed invited speakers are:

Dr Richard Durbin (Sanger Institute) <http://www.sanger.ac.uk/research/faculty/rdurbin/>

Dr Virpi Lummaa (University of Sheffield) <http://www.shef.ac.uk/aps/staff-and-students/acadstaff/lummaa>

Prof Diethard Tautz (Max-Planck-Institut für Evolutionsbiologie) http://www.evolbio.mpg.de/1580376/employee_page?employee_id=12084 Location: Department of Genetics, Downing Site, Biffen lecture theatre. More information will be posted here: <http://heliconius.zoo.cam.ac.uk/camevolgen/eggs/>

The meeting is sponsored by the Genetics Society (<http://www.genetics.org.uk/>) and is organised by the Cambridge Evolutionary Genetics (CEG) network (<http://heliconius.zoo.cam.ac.uk/camevolgen/>).

Richard Merrill & Ben Longdon

Dr. Richard Merrill Junior Research Fellow, King's College Department of Zoology | University of Cambridge

Tel: (+44)(0)1223 336644 Mob: (+44)(0)7590 984754 Email: r.merrill@zoo.cam.ac.uk Web: <http://heliconius.zoo.cam.ac.uk/2009/richard-merrill/>

Richard Merrill <r.merrill@zoo.cam.ac.uk>

[2014&program=genes](http://www.grc.org/programs.aspx?year=2014&program=genes) There is also an associated GRS 8-9 February for students and postdocs:

http://www.grc.org/programs.aspx?year=2014&program=grs_genes

This sixth Gordon Research Conference and associated GRS on Genes and Behavior will continue the tradition of bringing together both leading and beginning researchers focusing on investigating behavior in model genetic systems and model behavioral systems. The Conference and Seminar will focus on topics at the interface of behavior, neurobiology, genetics, molecular biology, and evolution and will emphasize the theme of emerging model species, technologies and analyses facilitating integrative research. Talks will cover the use of sequenced genomes across established and emerging organismal models (invertebrates to humans), integration of experimental contexts (field versus laboratory), newly accessible phenotypes (solitary behavior to social interactions), genetic networks, and levels of analysis (gene, brain, physiology, and populations). Bioinformaticians, behavioral biologists, molecular geneticists, systems biologists, evolutionary biologists and neuroscientists are represented among the speakers so that different perspectives can be evaluated. Ample time is provided for brainstorming. Junior scientists and graduate students are invited to present their work in poster format and exchange ideas with leaders in the field.

Speakers include: David Clayton Ralph Greenspan Hopi Hoekstra Mike Ritchie Yehuda Ben-Shahar Ping Shen Joel Levine Matthew Hahn Steve Chenoweth Robert Reed Daniel Kronauer Nathan Bailey Alison Bell Jian Ma Sue Brown Matthew Keller Michael Goodisman Amy Toth Margaret McCarthy Margit Burmeister Lauren O'Connell Youngjai You Tsuyoshi Koide Tom Johnson Amro Zayed Laramie Duncan Maja Bu'an

Allen J. Moore Dept Genetics University of Georgia ajmoore@uga.edu

Allen J Moore <ajmoore@uga.edu>

Galveston TX GenesBehavior Feb9-14

Lets try that again

Dear Colleagues,

Join us at the 2014 Genes and Behavior Gordon Conference. We are meeting at Hotel Galvez, Gavelston TX, 9-14 February. See:

[http://www.grc.org/programs.aspx?year=](http://www.grc.org/programs.aspx?year=2014&program=genes)

GifsurYvette France EpigeneticsEvolution Dec3-4 4

Reminder and Deadline extension - Symposium on Epigenetics in Ecology and Evolution

Epigenetics, the science of reversible but heritable changes in gene expression has grown to maturity in

the last years. The tremendous advancements of technologies that bring now the analysis of whole genomes, transcriptomes and proteomics into reach of almost any laboratory has also made possible the comprehensive analysis of epigenomes. The understanding that epigenetic modifications are involved in almost all developmental processes, and several examples that show environmentally induced epigenetic changes have fueled the hope to better apprehend how the environment and genetic and non-genetic heritable information interact and allow for adaptive evolution.

The research community in this latter field shares common concepts and fundamental question but is confronted to the technical difficulties associated with the heterogeneity of their models. The French CNRS INEE has therefore put forward an initiative to bring together existing expertise and to seek synergistic effects in the French community wishing to persevere or to initiate work in the field of ecological epigenetics.

We have organised a symposium with a number of plenary talks and plenty of room for discussion. We cordially invite the community to join in on

December 3-4, 2013 in Gif-sur-Yvette (close to Paris, France).

Inscription is free but compulsory and the number of participants is limited to 80.

Feel free to register before nov. 9, 2013 at <http://methdb.univ-perp.fr/epinee/> For the steering committee: Christoph Grunau Prof. des Universités/Professor (HDR) Université de Perpignan Via Domitia UMR 5244 CNRS Ecologie et Evolution des Interactions (2EI) 52, avenue Paul Alduy 66860 PERPIGNAN Cedex France Tel 33 (0)4.68.66.21.80 Fax 33 (0)4.68.66.22.81 <http://2ei.univ-perp.fr/> <http://methdb.univ-perp.fr/epievo/> Christoph Grunau <christoph.grunau@univ-perp.fr>

Innsbruck WolbachiaEvolution Jun6-11

Dear Wolbachia community,

early bird registration is now open for the 8th International Wolbachia Conference which will be held from 6 to 11 June 2014 in Innsbruck, Austria.

Topics will include, inter alia, - ecology, evolution and development - phenotypes, diversity and distribution -

cell biology - genetics & genomics - applications in pest control and disease management - other reproductive parasites than Wolbachia.

Visit the conference website at <http://wolbachia2014.org/> or proceed directly to the registration page at <http://wolbachia2014.org/05-reg.php>. Please also consider subscribing to our newsletter to be constantly informed about important news on the meeting: <http://wolbachia2014.org/nl.php>

Looking forward to seeing you in Innsbruck next year, Wolfgang Arthofer in behalf of the WOLBACHIA 2014 Organising Committee

Dr. Wolfgang Arthofer

University of Innsbruck Molecular Ecology Group Technikerstrasse 25 / 5. OG 6020 Innsbruck, Austria

Tel +43 (0) 512 / 507 - 51751 Fax +43 (0) 512 / 507 - 6190 Mob +43 (0) 680 / 551 2814 wolfgang.arthofer@uibk.ac.at

http://www.uibk.ac.at/ecology/forschung/-molecular_ecology.html.en

wolfgang.arthofer@uibk.ac.at

Istanbul EcoEvolutionaryBiol Jul12-13

We are pleased to announce the Ecology and Evolutionary Biology Symposium - 2014, Turkey (EEBST - 2014). This will be the first international symposium in Turkey focusing specifically on ecology and evolutionary biology.

EEBST will take place on July 12th/13th, 2014, and will be hosted by Bogazici University, Institute of Environmental Sciences. The conference venue will be BoĀaziĀi University Albert Long Hall, located at the university's South Campus.

The symposium will be conducted in English.

Plenary lectures will be given by Nick Barton (Klosterneuburg, Austria), Jennifer Leonard (Sevilla, Spain), Juli Pausas (Valencia, Spain), Luigi Boitani (Rome, Italy).

A total of 48 (24 on ecology, 24 on evolutionary biology) oral presentations will be accepted. The Symposium will also include a poster session.

This will be a unique opportunity for meeting Turkey's

evolutionary biologist and ecologist research community and setting up collaborations.

We look forward to seeing you in Istanbul!

You can visit the website at: <http://www.eebst2014.boun.edu.tr/EEBST-2014/Home.html>

Abstract Submission: February 1st Abstract Acceptance Notification: March 1st Early Registration: April 1st Late Registration: April 2nd-July 12th

somel.mehmet@googlemail.com

Leicester UK
EMBOHumanEvolution Apr1-4

We are pleased to announce the EMBO Conference on Human Evolution in the Genomic Era: Origins, populations and phenotypes, to be held in Leicester, 1-4 April, 2014.

Molecular studies of human evolution have undergone an extraordinary transformation in the last decade. The analysis of human genetic diversity has shifted from locus-specific to genome-wide, with new molecular techniques and informatic methods, and their application in large-scale collaborative projects. This revolution is providing new insights into the human past, into mutation rates and recombination processes, and into adaptation and the molecular and evolutionary basis of genetic disease. This EMBO Conference aims to provide an accessible opportunity for early-career researchers and PhD students to exchange ideas and knowledge with each other, and with key senior investigators who have contributed some of the major advances. The meeting represents a dynamic and stimulating forum for discussing the state of the art and future of this field.

For further details and instructions on how to submit an abstract and register, please visit: <http://events.embo.org/14-human-evo/index.html> Spaces are limited, so please register soon if you want to attend.

Chiara Batini & Mark Jobling - embo2014
<embo2014humanevolution@gmail.com>

Lillehammer Norway
ClimateAdaptation Jan27-29
Reminder 2

Dear all,

This is a reminder for a conference on *‘Genetic Resources for Food and Agriculture in a Changing Climate’* in Lillehammer, Norway, 27th - 29th of January 2014.

The main aims of the conference are to:

- contribute to an understanding of climate change and its predicted impact on agriculture and forestry - increase our understanding of adaptive genetic diversity and adaptation - assess how genetic resources for food and agriculture are affected by the changing climate - discuss the consequences that climate change challenges bring upon the sustainable utilization of plant, animal and forest genetic resources

The conference aims at bringing together participants from all areas relevant to genetic resources for food and agriculture in a changing climate. The conference will focus on the scientific frontiers in this area as well as create a possibility for discussions from the political point of view.

The conference is organized by the Nordic Genetic Resource Center (NordGen, <http://www.nordgen.org/index.php/en/content/view/full/2/>) and four research networks under a program entitled ‘Climate Change Impacts, Adaptation and Mitigation in Nordic Primary Industries’ financed by the Nordic Council of Ministers and NordForsk. The results of three years of network activity of the four networks will be presented during the conference.

The meeting is directed towards scientists, PhD students and young scientists, national genetic resource coordinators, breeding association representatives, government officials and other stakeholders with special interest in genetic resources for food and agriculture in a changing climate.

Please, follow the link below to the conference homepages for the scientific program, call for abstracts (*deadline 30th of November*), and registration and practical information.

<http://climate.nordgen.org> NB! Reduced fees for registration and accomodation for students.

Feel free to distribute this invitation amongst your colleagues.

Best regards, Anne PrÄbel

– Dr. Anne Kettunen PrÄbel Senior Scientist Nord-Gen - Nordic Genetic Resource Center P.O.Box 115, NO-1431 Ås, Norway Street address: Raveien 9, 1430 Ås Phone: +47 6494 9772, mobile: +47 9778 0903 anne.praebel@nordgen.org www.nordgen.org Anne Kettunen Praebel <anne.praebel@nordgen.org>

Lisbon ICAZ Archaeozoology Mar26-28

Dear colleagues,

The* 6th ICAZ - Archaeozoology, Genetics and Morphometrics Working Group Meeting, will be held in Lisbon, March 26-28, 2014.*

The website for this meeting is now available at:

<https://www.fc.ul.pt/en/conferencia/6th-icaz> Keep the date for *early registration December 30, 2013* and join us for what we expect to be an exciting meeting in Lisbon!

If you have any questions regarding registration and abstract submission please send an email to 6ICAZ.AGM@gmail.com.

“6ICAZ.AGM” <6icaz.agm@gmail.com>

London EvolutionBehaviouralMechanisms Dec5-6

This year’s ASAB Winter Conference, on ‘The evolution of behavioural mechanisms’, will take place on 5-6 December 2013 at the Zoological Society of London. The meeting is completely free to attend and there is no need to register in advance. Below is the list of talks and posters. See tinyurl.com/winterasab2013 for further information.

Hope to see you there!

Tim Fawcett, Andy Higginson & Pete Trimmer Modelling Animal Decisions (MAD) group, University of

Bristol

PLENARIES * Melissa Bateson - Memory of hunger: cognitive scars of early-life adversity in European starlings? * Reuven Dukas - Social information use in fruit flies: mechanisms and functions * Simon Laughlin - Ascending Shannon’s slopes: how the cost of information constrains brains

NIKO TINBERGEN LECTURE * Marlene Zuk - The role of behaviour in the establishment of novel traits

CONTRIBUTED TALKS * Willem Frankenhuis - When does natural selection favour sensitive periods in development? * Alex Kacelnik - Paradoxical preferences for low probability of reward: how adaptive mechanisms can have costly consequences * Kate Morgan - Decision making in context: comparing the choices of humans and animals * Vivek Nityananda - Bumblebee visual search for multiple learned target types * Dave Shuker - Constraints on adaptive sex allocation behaviour * Jarl Giske - Effects of the emotion system on adaptive behaviour * Dani Sulikowski - The function of mechanism: linking cognition to foraging ecology * Jayden van Horik - Behavioural flexibility in parrots * Robert Biegler - Relational complexity * Frederic Mery - Diffusion of social information within Drosophila group : natural genetic variation for social transmission * Neeltje Boogert - Pre- and post-natal stress have opposing effects on social information use * Rui Oliveira - Searching for the social brain: neural and molecular mechanisms of social learning in zebrafish * Gerit Pfuhl - Complex behaviour despite a simple ear * Thomas Hills - Animal foraging and the evolution of attentional control * Oren Kolodny - Foraging challenges in statistically structured environments give rise to learning mechanisms which may account for ‘advanced cognitive abilities’ * Alexander Kotrschal - From artificial selection to transcriptomics: the cognitive benefits of, and the gene responsible for, a large brain * Joe Woodgate - What mechanisms underlie visually-guided navigation in foraging wood ants (*Formica rufa*)? * Sophie Mowles - The costs of courtship: using physiology and performance to understand what females want * Michele Johnson - The evolution of muscle physiology and social behaviour in Caribbean Anolis lizards * Arnon Lotem - Evolution of learning and levels of selection: a lesson from avian parent-offspring communication * Patricia Lopes - Socially-induced plasticity of sickness behaviours and its neuroendocrine basis * Michal Arbilly - Complex interactions between individual and social learning processes shape their evolution * Magda Teles - Socially driven changes in neural plasticity mediate behavioural flexibility * Luc-Alain Giraldeau - Non-social learning in a social context

CONTRIBUTED POSTERS * Christian Agrillo - Evidence of multiple cognitive systems underlying numerical abilities of vertebrates * Stefan Leitner - Environmental and genetic control of brain and song structure in the zebra finch * Anne Salvanes - Environmental enrichment promotes neural plasticity and cognitive ability in fish * Julia Purser - Costly responses to acoustic stressors: underlying physiology, psychology and flexibility? * Lorenz Gygas - Mood-emotion interaction effects on behavioural and brain reactions of sheep exposed to video images of social interactions * João Messias - The role of dopaminergic system in the modulation of the Indo-Pacific bluestreak cleaner wrasse *Labroides dimidiatus* cooperative behaviour * Cecilia Wikström - Behavioural and molecular responses to a social challenge in a cooperative breeder reared in different social environments * Claudia Kasper - Behavioural and genomic responses of a cooperatively breeding cichlid to a helping task * David Baracchi - Nestmate recognition in *Stenogastrinae* wasps: visual and chemical information are not integrated in a multimodal sensory cue * Cedric Tan - Sex-specific response to the familiarity of mates, and the role of olfaction * Zineb El Filali - Mass spectrometric study of the peptidergic neurotransmission regulating male mating in a mollusc, *Lymnaea stagnalis* * F-X Dechaume-Moncharmont - Scramble competition severely impairs mate choosiness * Thomas Hoffmeister - What makes a forager leave a resource patch? Confronting models with reality * Benja Fallenstein - Heritable personality traits probably aren't correct Bayesian priors * Noa Truskanov - Active search and self-experience mediate the success of both social and individual learning in house sparrow fledglings

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MNHN Paris YoungScientists Feb12-14

1st Young Natural History scientists' Meeting 12th - 14th February 2014 Muséum national d'Histoire naturelle (Paris, France)

The Bureau des Doctorants et Étudiants du Muséum (association for students and young researchers work-

ing at the Muséum national d'Histoire naturelle, Paris) is delighted to announce the opening registration and abstract submissions for the *1st Young Natural History scientists' Meeting* hosted at the MNHN (Paris, France) on February 12th and 13th, 2014. The meeting will be followed by excursions on the 14th to visit the recently renovated herbarium of the Muséum, the workshops of taxidermy and other collections.

We invite contributions (either oral or poster communications) on all aspects of natural history:

- *Biodiversity Dynamics and Conservation*: any subjects linked to ecology and conservation of the Earth's biological diversity, including studies of Earth's ecosystems, molecular diversity, the distribution, abundance and dynamics of micro- to macroscopic organisms - , their interactions with both other life-forms and/or physical environment, and conservation biology.

- *Earth and Planetary Sciences*: any topics related to atmospheric science, biogeochemistry, cosmochemistry and cosmology, climate science, geochemistry, geology, geomorphology, glaciology, hydrology and limnology, mineralogy, oceanography, paleoecology, biostratigraphy, paleobiogeography, palaeoenvironmental reconstructions, taphonomy, petrology, tectonics, volcanology.

- *Mankind, Prehistory, Nature and Societies*: any work on biological anthropology, genetics, prehistory, social and cultural anthropology, ethnology, ethno-biology, ethno-musicology, geography, and the history and philosophy of sciences and techniques.

- *Systematics, Evolution and Comparative Anatomy*: any aspects of comparative anatomy and morphology, evo-devo, evolutionary ecology and behavior, experimental evolution, palaeobiology, taxonomy, phylogenetics and phylogeography, theories and models.

A keynote speaker will open each of these multidisciplinary themes with a lecture on a relevant topic.

Registration and abstract submission

We propose free registration fees, including full package and tea/coffee breaks.

Deadline for abstract submission and registration is January 19th 2014 (23:59 GMT+1).

All abstracts should include the name(s) of author(s) and their address(es), a succinct title (no more than 100 characters) and the main body of text, which should comprise no more than 300 words, and be sent by email to assobdem@mnhn.fr. Please indicate in the subject of your email if you want to present a talk or a poster. If we receive too many abstracts for oral communications they will be reviewed by the organising committee, and

only the successful abstracts will be given as talks, the other abstracts will be accepted for poster presentations. Guidelines on presentation formats will be given in the Second Circular, which will be available in early January.

The closing party event will be held in the MNHN cafeteria and will include a buffet and drinks reception. This will probably cost a few euros (more information in the second circular).

Venue and travel

The conference will take place at the Muséum national d'Histoire naturelle, in the auditorium of the Grande Galerie de l'Evolution on 12th and 13th February 2014. GETTING THERE: Address: Jardin des Plantes - 36, rue Geoffroy Saint Hilaire 75005 Paris

Bus: Lines 24, 57, 61, 63, 67, 89 et 91

Metro, RER: M5: Austerlitz, M7: Censier Daubenton, M10: Jussieu or Austerlitz, RER C: Austerlitz.

SNCF Railway Stations: Austerlitz or Gare de Lyon (but all the railway stations are connected to metro and bus lines)

Getting to Paris by plane: Paris has two major international airports: Roissy-Charles de Gaulle (north of Paris) and Orly (south of Paris). There is frequent connecting city trains (RER) or buses leading to the center of Paris (and therefore connection to the metro). The transfer takes between 30 and 45 minutes.

Provisional schedule

February 12th (AM) Biodiversity Dynamics and Conservation (PM) Earth and Planetary Sciences

February 13th (AM) Mankind, Prehistory, Nature and Societies (PM) Systematics, Evolution and Comparative Anatomy (Evening) Poster session, Cocktail and Closing party *February 14th* (AM) Conference excursions

For those interested in taking advantage of their stay in Paris to access the collections The Muséum national d'Histoire naturelle stands as a fantastic memory of life forms and minerals, holding one of the most important international reference collections. Inert objects displaying palaeontology, geology, mineralogy, meteorites, botany, zoology, prehistory, anthropology, ethnobiology and chemistry are estimated to total over 60 million specimens. Visits to our collections are welcomed, but access is dependent on the

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mcmaster.ca/~brian/evoldir.html

Montpellier MathCompEvolBiol Jun15-19

MCEB - Mathematical and Computational Evolutionary Biology, 15-19 June 2014 - South of France

Webpage: <http://www.lirmm.fr/mceb2014/> Pre-registration deadline: February 15

Scope: Mathematical and computational tools and concepts form an essential basis for modern evolutionary studies. The goal of the MCEB conference (at its 6th edition) is to bring together scientists with diverse backgrounds to present recent advances and discuss open problems in the field of mathematical and computational evolutionary biology. This year a special focus will be given to the applications to biodiversity in all its aspects: from its conservation to its ecology and evolution; from the diversity within a genome, to that between individuals within a species and that between species in an ecosystem. General concepts, models, methods and algorithms will also be presented and discussed, just as during the previous conference editions.

Where and when: Hameau de l'Etoile (<http://www.hameaudeletoile.com/>) in the Montpellier region, South of France, 15-19 June 2014.

Cost: Conference fees including accommodation (4 nights), meals, coffee breaks, buses, etc., will be around 500 euro, and will vary depending on the room type. PhD students and postdocs will benefit of the cheapest rooms.

Keynote speakers (to be completed):

Richard Durbin (Wellcome Trust Sanger Institute, UK): Population genomics

Nicolas Lartillot (Université de Montréal, CA): Comparative genomics and ecology

Arne Mooers (Simon Fraser University, CA): Considering the Tree of Life in Conservation

Hélène Morlon (Centre de Mathématiques Appliquées, FR): Dynamics of biodiversity

Rasmus Nielsen (University of Berkeley, US): Theory and methods developments in Population Genetics

Adam Siepel (Cornell University, US): Genome-wide inference of ancestral recombination graphs

Mike Steel (University of Canterbury, NZ): What can we reconstruct from the past?

Simon Tavaré (Univ. of Cambridge and Univ. of Southern California): Cancer as an evolutionary process

For more information, visit the website at: <http://www.lirmm.fr/mceb2014/> Please forward this announcement.

Olivier Gascuel <gascuel@lirmm.fr>

New York Simulating Life Jul31-Aug2

ALIFE 14: THE FOURTEENTH INTERNATIONAL CONFERENCE ON THE SYNTHESIS AND SIMULATION OF LIVING SYSTEMS

July 31st - August 2nd, 2014 Javits Center, Manhattan, New York, NY, USA

<http://alife14.org> Sponsored by the International Society for Artificial Life (ISAL)

January 15, 2014 – Workshop/tutorial proposal deadline February 1, 2014 – Science visualization competition deadline March 31, 2014 – Paper/abstract submission deadline

We cordially invite you to submit papers to ALIFE 14: The Fourteenth International Conference on the Synthesis and Simulation of Living Systems. Since its inception in 1987, ALIFE has been the leading biyearly international conference in the field of Artificial Life – the highly interdisciplinary research area on artificially constructed living systems, including mathematical, computational, robotic, and biochemical ones. The understanding and application of such generalized forms of life, or “life-as-it-could-be”, have been producing significant contributions to various fields of science and engineering.

The upcoming ALIFE 14 will be held at the Javits Center located in the middle of Manhattan, New York, the world’s largest economic and cultural center. We hope you will find it a perfect place to discuss Artificial Life, the intellectual melting pot that mixes biology, computation, technology, art, philosophy, and more!!

ALIFE 14 accepts submissions in either full paper (8 pages) or extended abstract (2 pages) format. Accepted papers and abstracts will be published by MIT Press as open-access electronic proceedings. Topics of interest include, but are not limited to, the following aspects of

Artificial Life:

- Bio-inspired and evolutionary robotics - Self-replication, self-repair and morphogenesis - Artificial chemistry and cellular automata - Perception, cognition and behavior - Embodied, interactive systems - Collective dynamics of swarms - Complex dynamical networks - Evolutionary dynamics - Ecological and social dynamics - Economy/society/social media as living systems - Methodologies and tools for artificial life - Applications to nanotechnology, biology or medicine - Applications to business and finance - Applications to games and entertainment - Artificial life-based art - Philosophical and ethical issues - Artificial life and education

Best paper awards (best paper, best student paper, best poster) will be given to highest quality work, with prizes offered by Wolfram Research, Inc.

Organizers: General Chair – Hod Lipson (Cornell University) Program Chair – Hiroki Sayama (Binghamton University) Workshop Chair – John Reiffel (Union College) Competition Chair – Sebastian Risi (IT University of Copenhagen) Executive Producer – Ira Fraitag Event Producer – Craig Ryan

For more information, please visit the conference website: <http://alife14.org> . – Barry L. Williams

Asst. Professor Depts. of Zoology and Microbiology & Molecular Genetics (MMG) Programs in: Ecology, Evolutionary Biology and Behavior (EEBB); BEACON Center for Evolution in Action; Genetics; Quantitative Biology Initiative (QBI)

Mailing Address: Natural Sciences 288 Farm Lane, Room 203 East Lansing, MI 48824

Lab: 41 Giltner 517-432-3484 (office) 517-432-3485 (lab)

<http://www.msu.edu/~barryw/> barryw@msu.edu

New York City ISBE 2014 Jul31-Aug5 Registration

Fellow Evolutionary and Behavioral Ecologists!

Please mark your calendars: The < <http://www.isbe2014.com/> > ISBE 2014 conference takes place July 31st-August 5th 2014, in New York City, on the Manhattan campuses of Hunter College (City University of New York) and New York University.

Morning chorus (early bird!) < <http://www.isbe2014.com/>

www.isbe2014.com/registration.html > registration is now open. The fee is at a steeply discounted rate available until November 30, 2013; afterwards regular registration fees apply. Early registration will also give you access to dormitory style housing at the NYU campus. The ISBE is also sponsoring a travel grant application program (more details at www.isbe2014.com/registration)

We are looking forward to what promises to be an exciting conference in a unique place, and some details have already been finalized:

The welcome reception will take place at the < <http://www.centralparkzoo.com/> > Central Park Zoo after hours, and the final banquet is planned to be hosted at night within the glorious < <http://www.amnh.org/> > American Museum of Natural History!

We have also lined up distinguished scholars for our plenary talks, and < <http://www.cbs.umn.edu/lab/zuk> > Prof. Marlene Zuk will be delivering the Hamilton Lecture.

There will also be a special screening of the short film series: < <http://www.sundancechannel.com/series/-mammas> > Mammias, introduced by Isabella Rossellini, and followed by a Q&A with the actress/director.

The Conference Registration Fee includes a 7-day unlimited local bus & metro travel pass in NYC, all scientific session attendances, welcome reception, morning and afternoon snacks, and poster session receptions. Lunch meal-plans and conference banquet costs are extra, and will be advertised soon. In addition to all scientific events associated with the conference, there will be a 'free day' on Sunday, August 3, 2014, with a variety of sporting and entertainment excursions options soon to be available for you to consider.

Please feel free to ask any questions by emailing us at: contact@isbe2014.com

Thank you, and see you soon! Mark Hauber, James Higham, and the ISBE2014 conference committee.

"Mark E. Hauber" <mhauber@hunter.cuny.edu>

Oeiras Portugal ENBE EvolBiol Dec20

Dear colleagues and friends,

We are happy to announce that the IX Portuguese Evo-

lutionary Biology Meeting (ENBE) will be held on the 20th of December 2013, at the Instituto Gulbenkian de Ciência in Oeiras, Portugal.

Registration is now open, and can be made through the following link: www.apbe.pt/enbe2013. Please notice that the deadline for registration is the 22nd November 2013.

Please forward this email to anyone you know that might be interested in participating.

Looking forward to meet you all!

The ENBE organising committee

Caros colegas,

É com muito gosto que anunciamos que se encontram abertas as inscrições para o IX Encontro Nacional de Biologia Evolutiva, a realizar a 20 de Dezembro no Instituto Gulbenkian de Ciência (Oeiras). O registo pode ser feito através do site www.apbe.pt/enbe2013, até dia 22 de Novembro de 2013.

Saudações evolutivas!

João Alpedrinha <joao.alpedrinha@gmail.com>

Oeiras Portugal ENBE EvolBiol Dec20 Reminder

Dear colleagues and friends,

This is a reminder for the ENBE registration deadline: 22nd November 2013!!

We are happy to announce that the IX Portuguese Evolutionary Biology Meeting (ENBE) will be held on the 20th of December 2013, at the Instituto Gulbenkian de Ciência in Oeiras, Portugal.

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Looking forward to meet you all!

The ENBE organising committee

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Saudações evolutivas!

João Alpedrinha <joao.alpedrinha@gmail.com>

Oeiras Portugal ENBE EvolBiol Dec20 Reminder 2

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Saudações evolutivas!

João Alpedrinha <joao.alpedrinha@gmail.com>

Oeiras Portugal ENBE EvolBiol Dec20 Reminder 3

Dear colleagues and friends,

In order to give the opportunity for more participants to register, the ENBE registration will be extended until the 29th November 2013.

We are happy to announce that the IX Portuguese Evolutionary Biology Meeting (ENBE) will be held on the 20th of December 2013, at the Instituto Gulbenkian de Ciência in Oeiras, Portugal.

Registration is now open, and can be made through the following link: www.apbe.pt/enbe2013. Please notice that the deadline for registration is the *29nd November 2013.*

Please forward this email to anyone you know that might be interested in participating.

Looking forward to meet you all!

The ENBE organising committee

Caros colegas,

De modo a dar a oportunidade a oportunidade para mais pessoas se registarem, o prazo limite de inscrições para o EMBE foi adiado para esta sexta-feira, dia 29 de Novembro.

É com muito gosto que anunciamos que se encontram abertas as inscrições para o IX Encontro Nacional de Biologia Evolutiva, a realizar a 20 de Dezembro no Instituto Gulbenkian de Ciência (Oeiras). O registo pode ser feito através do site www.apbe.pt/enbe2013, até dia *22 de Novembro de 2013* .

Saudações evolutivas!

João Alpedrinha <joao.alpedrinha@gmail.com>

Paris StatMethodsForPostGenomicData Jan23-24

Reminder : Statistical Methods for Post Genomic Data 2014, January 23-24, Paris (extended Deadline to the

15th for submission)

Dear all,

we have the pleasure to announce the 2014 edition of the Statistical Methods for Post-Genomic Data workshop. This 10th edition will take place in Paris, on the 23-24th of January, and will be organized by the Laboratoire de Génomique des microorganismes, Université Paris 6. This workshop aims at gathering statisticians, bioinformaticians and biologists to discuss new statistical methodology for the analysis of genomics data and further development of such methodology for challenging, new types of genomics data.

Invited speakers of this edition are David T. Jones (Univ. College, London), Frédéric Austerlitz (Museum National d'Histoire Naturelle, Paris), Cécile Ané (Univ. of Wisconsin Madison), Arnak Dalalyan (ENSAE/CREST) The themes of the invited sessions are Metabolomics, Evolution, and Statistical genomics.

<http://smpgd2014.sciencesconf.org/> We welcome contributed talks (15 min.) and posters. Abstracts can be directly submitted on the conference website before *december the 15th 2013*. Registration is free but required, and inscription deadline is December 15 2013.

We are looking forward to seeing you in Paris,

The organizers, H. Richard, S. Huet, B. Laurent, S. Robin, F. Picard

For a detailed version of the program:

Invited Speakers

* Protein structure: David T. Jones < <http://www0.cs.ucl.ac.uk/staff/d.jones/> > (Computer Science, University College London) * Evolution: Frédéric Austerlitz < <http://www.ecoanthropologie.cnrs.fr/spip.php?article519> > (Eco-anthropologie et Ethnologie, Museum National d'Histoire Naturelle) * Big Data: Arnak Dalalyan < <http://www.arnak-dalalyan.fr/> > (ENSAE / CREST, GENES and Imagine / LIGM, Université Paris-Est) * Phylogeny: Cécile Ané < <http://www.stat.wisc.edu/%7Eane/> > (Department of Statistics and Botany, University of Wisconsin-Madison)

Contributed Sessions

* Metabolism (organizer: Daniel Kahn < <http://lbbe.univ-lyon1.fr/-Kahn-Daniel.html> >, abstracts < http://smpgd2014.sciencesconf.org/conference/smpgd2014/pages/SMPGD_metabolism.pdf >)

o David Vallenet < <https://www.genoscope.cns.fr/agec/website/spip.php?article26> > (Laboratoire de génomique comparative, Génoscope) /Enzyme survey and how to find new ones/ o Christoph Kaleta < <http://tsb.uni-jena.de/> > (Theoretical Systems Bi-

ology Friedrich-Schiller-Universität Jena) /Tuned for speed - Elucidation of strategies for rapid metabolic adaptations in prokaryotes/ o Frank J. Bruggeman < <http://www.ibi.vu.nl/sysbio/doku.php> > (Systems Bioinformatics, VU University, Amsterdam) /Constraints, adaptability and optimality of metabolic networks/

* Statistical Genomics (organizer: Bertrand Servin < <http://snp.toulouse.inra.fr/%7Eservin/> >) o Simon Boitard (Origine, Structure et Evolution de la Biodiversité < <http://www.mnhn.fr/oseb> >, Museum National d'Histoire Naturelle) : /Inferring the past dynamics of effective population size using genome wide molecular data/ o Christèle Robert-Granié (INRA) : /Integration of genomic information into genetic evaluation model : Is it a good statistical model?/ o Anne-Louise Leutenegger < <http://cvscience.aviesan.fr/cv/-719/anne-louise-leutenegger> > (Genetic Variation and Human Diseases Lab, INSERM): /Mapping genes in consanguineous and isolated populations in the era of high throughput sequencing/

* Phylogeny (organizer: Nicolas Lartillot < <http://www.biochimie.umontreal.ca/activites-de-recherche/-themes-de-recherche-et-professeurs/nicolas-lartillo/> >, abstracts < http://smpgd2014.sciencesconf.org/conference/smpgd2014/pages/SMPGD_phylogeny.pdf >)

— / —

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>

Roscoff Viral Emergence Evolution Apr2-6

>From emerging to pandemic viruses: interplay between host ecology and viral evolution

April 2-6, 2014, Roscoff (Brittany, France)

http://www.mivegec.ird.fr/monod/-CJM_Regoes.en.htm Deadline for registration: Jan 10, 2014

Deadline for support grants: Dec 10, 2013

Emerging viruses are recognized to be a threat not only to human health but also to activities, such as crop or cattle farming, and even to endangered species. This

Jacques Monod conference will study virus evolution and emergence through an original perspective by focusing on where viruses thrive. A first series of lectures will present virus outbreaks in the wild, ranging from 'classical' topics (ebola in humans) to more unusual viruses (viruses infecting Archae or viruses infecting... viruses). A second series of lectures will present experimental results on outbreaks, with a particular focus on bacteriophages, which are particularly amenable to experimental evolution approaches. Finally, the third series of lectures will focus on deciphering the dynamical processes that can lead to outbreaks of new viruses. Overall, this conference stands out as one of the few that gathers researchers, who use different approaches (molecular biology, experimental evolution, mathematical modeling) and work on viruses infecting a wide variety of hosts (animals, plants, bacteria, Archae, viruses) but who are all interested in virus emergence.

Organisers

Chairperson: Roland R. Regoes ETH Zurich, Switzerland roland.regoes@env.ethz.ch

Vice-chairperson: Samuel Alizon Laboratoire MIVEGEC, Montpellier, France samuel.alizon@montp.cnrs.fr

Invited speakers ALIZON Samuel (Montpellier, France) - Vice-chairperson ART Eric (Cleveland, USA) ASQUITH Rebecca (London, UK) BENKIRANE Moncef (Montpellier, France) BLANC Stephane (Montpellier, France) BONHOEFFER Sebastian (Zurich, Switzerland) CHARBONNEL Nathalie (Montpellier, France) CLAVERIE Jean-Michel (Marseille, France) COBEY Sarah (Chicago, USA) CUNNINGHAM Andrew A. (London, UK) DE LAMBALLERIE Xavier (Marseille, France) ELENA Santiago (Valencia, Spain) FRASER Christophe (London, UK) GANDON Sylvain (Montpellier, France) GAUDIN Yves (Gif-sur-Yvette, France) HAMPSON Katie (Glasgow, UK) JIGGINS Franck (Cambridge, UK) KOSKELLA Britt (Exeter, UK) LEROY Eric (Franceville, Gabon) LEVIN Bruce (Atlanta, USA) LLOYD-SMITH James (Los Angeles, USA) MARTIN Darren (Cape Town, South Africa) PRANGISHVILI David (Paris, France) PYBUS Oliver (Oxford, UK) REGOES Roland (Zurich, Switzerland) ? Chairperson TURNER Paul (New Haven, USA) VAN BOVEN Michiel (Bilthoven, Netherlands) VIGNUZZI Marco (Paris, France) WEAVER Scott (Galveston, USA) WIMMER Eckard (Stony Brook, USA)

Registration fee

420 Euro for PhD students 600 Euro for other participants (this including board and lodging, i.e. 4 nights, breakfast and 7 meals)

Application for registration

The total number of participants is limited to 115 and all participants are expected to attend for the whole duration of the conference. Selection is made on the basis of the affinity of potential participants with the topics of the conference.

Scientists and PhD Students interested in the meeting should send: 1. their curriculum vitae 2. the list of their main publications for the 3 last years 3. the abstract of their presentation to the Chairperson of the conference (roland.regoes@env.ethz.ch) before the deadline.

Subsequently, the organizers will select the participants. Except in some particular cases approved by the chairperson, it is recommended that all selected participants present their work during the conference, either in poster form or by a brief in-session talk. The organizers choose the form in which the presentations are made. No payment will be sent with application. Information on how and when to pay will be mailed in due time to those selected.

Support grants

Support grants from 250 to 600 Euro are available to young scientists (less than 36) who are members of a Society member of the Federation of European Microbiological Societies. In addition to the regular registration, the support file (available online) should be sent before Dec 10 to the vice-chairperson (samuel.alizon@montp.cnrs.fr). After this date, support grant availability is not guaranteed. http://www.mivegec.ird.fr/monod/-CJM_Regoes.en.htm#support Sponsors

CNRS, INSERM, FEMS, REID, ESV, ATIP-Avenir

For further details on the Jaques Monod Conferences, see http://www.cnrs.fr/insb/cjm/cjmorg_e.html roland.regoes@env.ethz.ch

Sitges Spain HumanEvolution Mar16-18

Cell Symposium: Evolution of Modern Humans - From Bones to Genomes March 16 - 18, 2014 Hotel Meliá, Sitges, Spain www.cell-symposia-humanevolution.com

Poster abstract submission deadline: December 20, 2013 Early registration deadline: January 6, 2013

How did our species, *Homo sapiens*, become what it is today? How did our ancestors spread across the globe? How did their bodies and minds evolve?

The study of these fascinating questions has seen a veritable revolution in recent years: genome sequencing of ancient and extant humans, and their relatives, has revealed our evolutionary history in unprecedented detail and sheds light on how humans adapted; new analyses of fossils and archaeology reveal what makes humans so unique.

Our Cell Symposium 'Evolution of Modern Humans - From Bones to Genomes' pays homage to this revolution by bringing together an uniquely broad mix of world-class researchers who study the evolution of our species from various angles - from palaeoanthropology to genetics, genomics and archaeogenetics, through to the study of cultural and cognitive processes.

This meeting will synthesize our current picture of the evolution of modern humans and formulate the most exciting questions for future research.

Session Topics:

* Human genetics and genomics * Adaptation * Archaeogenetics * Palaeoanthropology * Cognition and culture

Confirmed Speakers Ofer Bar-Yosef, Peabody Museum, Harvard University, USA Anna Di Rienzo, University of Chicago, USA Wolfgang Enard, Ludwig-Maximilians University Munich, Germany Michael Hammer, University of Arizona, USA Jean-Jacques Hublin (organiser), Max-Planck-Institute for Evolutionary Anthropology, Leipzig, Germany Mathias Jakobsson, Uppsala University, Sweden Kevin Laland, University of St. Andrews, UK Carles Lalueza-Fox (organiser), Institut de Biologia Evolutiva, Barcelona, Spain Svante Pääbo, Max-Planck-Institute for Evolutionary Anthropology, Leipzig, Germany Mark Pagel, Reading University, UK Chris Stringer, Natural History Museum, London, UK Sarah Tishkoff, University of Pennsylvania, USA John Novembre, University of Chicago, USA Cliff Tabin, Harvard University, USA Tim Weaver, University of California, USA Eske Willerslev, Copenhagen University, Denmark Organizing Committee Florian Maderspacher, Senior Editor, *Current Biology* Paul Craze, Editor, *Trends in Ecology and Evolution* Carles Lalueza Fox, Institut de Biologia Evolutiva, Barcelona Jean-Jacques Hublin, Max-Planck Institute for Evolutionary Anthropology, Leipzig

Paul Craze, PhD Editor *Trends in Ecology and Evolution*

Follow TREE on: Twitter @Trends_Ecol_Evo Face-

book <http://on.fb.me/18CT6ls> Highest new entry in TREE's Top Ten downloads: Stéphanie Manel, Rolf Holderegger "Ten Years of Landscape Genetics" <http://www.cell.com/trends/ecology-evolution/abstract/S0169-5347%2813%2900134-1> Join the Cell Press Discussion on Is there a global tipping point for planet Earth? <http://news.cell.com/discussions/-trends-in-ecology-and-evolution/is-there-a-global-tipping-point-for-planet-earth> The latest TREE Focus Issue on Overconfidence and cognitive bias in behaviour is available here: <http://www.cell.com/trends/ecology-evolution/archive> and select the August issue.

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"Craze, Paul (ELS-CAM)" <P.Craze@elsevier.com>

Spain Woodpecker Conservation Feb23-26

Conference announcement and call for abstract submission

Woodpeckers in a Changing World - 7th International Woodpecker Conference Vitoria-Gasteiz, Spain, 23-26 February 2014

On behalf of the Organizing Committee, we are pleased to announce the 7th International Woodpecker Conference. As usual, these international woodpecker conferences aim at bringing together researchers, conservationists and forest managers from across the globe. The title of the planned conference is "Woodpeckers in a Changing World", which shows that we strive to discuss threats to and opportunities for woodpeckers in the face of global change and debates over forest management and energy policies currently taking place at EU and international institutions. In addition, this conference aims to promote an international forum for discussion on how woodpecker research may improve our understanding of behaviour, ecology and conservation sciences.

The conference is embedded within an EU-LIFE project (Pro-Izki) that focuses on the development of actions for the conservation of the Pyrenean oak forest of Izki (North Spain) and their associated species.

The conference is being organized by The Provincial

Council of Álava and Hazi Foundation, the two partners involved in the management of LIFE+ Pro-Izki. Moreover, the conference follows the path of previous conferences on woodpeckers organized by the Woodpecker Working Group of the German Ornithological Society, which launched the initiative and will also hold its 25th meeting in Vitoria-Gasteiz. These three organizations work in partnership to generate a pleasant atmosphere that leads to fruitful exchange of information among researchers of this fascinating avian group.

IMPORTANT DATES

November 11, 2013: registration and call for abstracts open
 December 22, 2013: abstract submission closes
 January 15, 2014: poster and contributed oral communications agreed
 February 10, 2014: registration closes
 February 23, 2014: conference opens

PROGRAM

The conference will comprise three main topics: - Forest Management and Woodpecker Conservation - Behaviour and Ecology of Woodpeckers - Molecular Ecology of Woodpeckers

Talks may be submitted to these topics as well as to any other topic related to woodpeckers. Contributed talks and posters will be selected from among the submitted abstracts.

The following speakers have tentatively agreed to attend the conference: - Carlos Ciudad, University of Leon, Spain - Dylan C. Kesler, University of Missouri, US - Jean-Michel Roberge, Swedish University of Agricultural Sciences, Sweden - Karen Wiebe, University of Saskatchewan, Canada - Konrad Leniowski, Adam Mickiewicz University, Poland - Martjan Lammertink, CONICET, Argentina - Paulo C. Pulgarin-R, University of Los Andes, Colombia - Utku Perktas, Hacettepe University, Turkey & American Museum of Natural History, US - Walter D. Koenig, Cornell Lab of Ornithology, US

Further details on the conference can be found at: <http://www.izkilife.com/index.php/es/noticias/-307-woodpeckers-in-a-changing-word-international-conference> Looking forward to seeing you in Vitoria!

Hugo Robles, University of Antwerp, Belgium
 Gilberto Pasinelli, Swiss Ornithological Institute, Switzerland

Pasinelli Gilberto <gilberto.pasinelli@vogelwarte.ch>

Sydney EvolutionSex Feb2-5

The Cooperation and Conflict in the Family Conference is happening at UNSW in Sydney 2-5 February 2014. We are bringing together economists, evolutionary biologists, psychologists and anthropologists, and we are confident that this will be an exciting, quite unique meeting of disciplines and approaches to the complexities of conflict and cooperation that exist at the heart of sex and reproduction.

Our conference website at <http://evolvingeconomics.com> provides more detail, including descriptions of the nine wonderful plenary talks on our schedule.

We invite you to register at <https://www.secureregistrations.com/UNSWCCF/>.

Sydney is a wonderful summer destination (<http://evolvingeconomics.com/sydney/>), and the conference ends with dinner at a restaurant overlooking the Opera House and Harbour Bridge. But accommodation fills up quickly, so if you are coming, do make your accommodation plans soon. We have reserved a block of rooms at UNSW's Philip Baxter College for a very good rate (\$277.20 for 4 nights accommodation including breakfast). We will have to advise Baxter College of numbers soon, so if you wish to stay there, please secure your room with your registration by 15 November. We suggest a number of alternative places delegates might wish to book themselves at <http://evolvingeconomics.com/accommodation/> Hoping to see many of you in Sydney in early February for what promises to be an exciting three days of interdisciplinary talks and discussion.

With best wishes,

Rob Brooks Jason Collins

rob.brooks@unsw.edu.au

UJyvaskyla Finland MatingSystems Feb19-21

A symposium on the "Evolution of mating systems"

will be held in Finland, 19.-21.2.2014. Invited speakers: Suzanne Alonzo, Göran Arnqvist, Hanna Kokko, Lotta Kvarnemo, Lukas Schärer

More info and registration: https://www.jyu.fi/science/muut_yksikot/winterschool/-jwe11/workshop/index.html – Dr. Lutz Fromhage University of Jyväskylä PO Box 35, 40014 Finland tel: +358 404834256

Lutz Fromhage <lfromhage@gmail.com>

UMichigan EvolChangeByHumans Mar28-30

CALL FOR NOMINATIONS TENTH ANNUAL EARLY CAREER SCIENTISTS SYMPOSIUM

Humans as a force of ecological and evolutionary change

The Department of Ecology and Evolutionary Biology at the University of Michigan invites nominations of outstanding scientists early in their careers to participate in an exciting international symposium about the effects of human activities on ecological and evolutionary processes around the world. The symposium events will take place from 28-30 March 2014, in Ann Arbor, Michigan.

Seven early career scientists, alongside two keynote speakers, will be selected to present their work and to participate in panel discussions. We welcome nominations of early career scientists who are studying how human activities have affected processes (as opposed to an enumeration of declining or extinct components) of ecology or evolution. Potential topics include changes in nutrient cycling, food-web interactions, evolution of resistance to antibiotics or pesticides, as well as facilitation of ecosystem function through maintenance of diverse managed ecosystems. The research focus can range from organisms (microbes to mammoths) to ecosystems in modern or prehistoric times, using observational, experimental, or theoretical approaches. We are interested in scientists with diverse expertise (academic, policy, non-profit, or management).

Early career scientists are considered senior graduate students (who stand to receive their Ph.D. within one year), postdoctoral researchers, and first- or second-year faculty. A colleague or advisor must provide the nomination.

The nomination consists of a brief letter of recommen-

dation addressing the nominee's scientific promise and ability to give a good talk, the nominee's curriculum vitae, and a brief abstract of the proposed presentation (< 200 words, written by the nominee). Nominations may be sent electronically (in one file, please) to eebccs-nomination@umich.edu using the nominee's name as the subject line (last name first, please). More information is available at <http://sitemaker.umich.edu/ecss2014>. All nominations must be received by December 16, 2013, at 5 pm.

Selected participants will be contacted by January 1, 2014, and will have all expenses covered (registration, travel and accommodation). An official announcement of the slate of speakers will be issued soon thereafter.

For more information, contact Cindy Carl at cacarl@umich.edu.

The 2014 Early Career Scientists Symposium scientific committee includes: Catherine Badgley cbadgley@umich.edu Bradley Cardinale bradcard@umich.edu Vincent Denef vdenef@umich.edu Thomas Jenkinson tsjenkin@umich.edu Theresa Ong weiyingo@umich.edu

The University of Michigan EEB website is <http://www.lsa.umich.edu/eeb/> wittkopp@umich.edu

UOxford Systematics Aug26-28

Advanced notice of the:

SYSTEMATICS ASSOCIATION BIENNIAL MEETING

26th-28th August 2015, University of Oxford ... Sessions will include:

Systematics & Ecology Systematics & Evolution Systematics & Taxonomy Systematics & Fossils

This three day meeting will take place in The University Museum of Natural History and the Department of Zoology, with accommodation available in historic Christ Church College

<http://www.systass.org/> <http://www.oum.ox.ac.uk/>
<http://www.zoo.ox.ac.uk/> <http://www.chch.ox.ac.uk/>
Hold the dates in your diary!

Matthew Wills on behalf of the Systematics Association Council

bssmaw@bath.ac.uk

UniAndes Bogota Biogeography Jan7-10

EARLY-BIRD (UNTIL DEC 1) REGISTRATION AND PAYMENT NOW OPEN AT: <http://nmb3.uniandes.edu.co/nmb3/Registration.html> IF YOU HAVE ALREADY PRE-REGISTERED, PLEASE PROCEED DIRECTLY TO PAYMENT FORM AT: <http://eventos.uniandes.edu.co/s/-1384/events/social2.aspx?sid=1384&gid=26&pgid=-252&cid=8145&cecid=8145&crid=0&calpgid=-61&calcid=2034> Dear Colleagues,

We are pleased to announce the Third Meeting of the Network for Neotropical Biogeography (NNB3) that will take place at the Universidad de los Andes in Bogotá, Colombia, on January 7–10, 2014. The theme of the meeting will be ‘Space, Time, Form and Genes.’ The event includes pre-meeting workshops (Jan. 7–8) and optional post-meeting field trips to unique Colombian habitats.

Please visit the conference website <http://nmb3.uniandes.edu.co> for updated information or contact nmb3@uniandes.edu.co.

The Network for Neotropical Biogeography (<http://nmb.myspecies.info>) promotes scientific interactions across disciplines and taxa with the following goals:

- Promote scientific interaction
- Stimulate the exchange of material, students and researchers
- Increase inter-disciplinarity between different fields
- Discuss and plan joint projects and grant applications
- Stimulate collaborative fieldwork and reciprocal help with field collection of research material
- Inform on upcoming events, recent papers and other relevant material

The NNB was established during a symposium at the BioSystematics conference in Berlin in February 2011. A second meeting, with the theme ‘Integrating Neotropical Research,’ was held at the Montgomery Botanical Center, Coral Gables, Miami, Florida, USA, on January 14th, 2013 immediately following the 6th Biennial meeting of the International Biogeography Society.

Tropical America - the Neotropics - is the most species-rich region on Earth. Understanding the mechanisms underlying the historical assembly and evolution of this extreme biodiversity constitutes a major challenge in biology, and will require hitherto unrealized inter-

disciplinary scientific collaboration.

We look forward to seeing you in Bogotá!

Santiago Madriñán

Santiago Madriñán, Ph.D. Profesor Asociado Departamento de Ciencias Biológicas Universidad de los Andes CL 18-2 68 Bogotá, D.C., 111711 COLOMBIA

Tel.: +57 1 339-4949 ext. 2729 <http://botanica.uniandes.edu.co> Network Of Neotropical Biogeography <nmb3@uniandes.edu.co>

Venezuela Conservation Genetics May5-9

Spanish version follows

First Latin American Conference on Conservation Genetics

In celebration of its tenth birthday, The Red de la Genética para la Conservación, or ReGeneC, announces the First Latin American Conference on Conservation Genetics, in Estado Vargas, Venezuela, May 5-9, 2014.

Confirmed plenary speakers include: Dr. Jonathan Ballou, Smithsonian Institution, USA Dr. Jesús Maldonado, Smithsonian Institution, USA Dr. Cristina Miyaki, Universidade de Sao Paulo, Brazil Dr. Andrea Premoli, Universidad del Comahue, Argentina Dr. Antonio Solé-Cava, Universidade Federal do Rio de Janeiro, Brazil

We welcome abstracts for talks or posters presenting original scientific work from across the region, focused on using genetic tools to solve conservation problems in Latin America:

<http://www.regenec.org/taller/may2014/resumenes.php>

Deadline for abstract submission is January 10, 2014. The official languages of the conference will be Spanish and Portuguese.

For full conference schedule, including pre- and post-conference courses, ReGeneC alumni round table, symposia/fora, and financial aid, see:

<http://www.regenec.org/taller/may2014/>

We look forward to seeing you in May!

- The Conference Organizing Committee

ReGeneC is a network of researchers and conservation practitioners from across Latin America dedicated to supporting the growth and development of conserva-

tion genetics in the region: <http://www.regenec.org/>

Primer Congreso Latinoamericano de Genética para la Conservación

En el marco de la celebración de su décimo aniversario, la Red de la Genética para la Conservación, o ReGeneC, anuncia el primer Congreso Latinoamericano de Genética para la Conservación, en el estado Vargas, Venezuela, el 5-9 de mayo de 2014.

Como conferencistas confirmados tenemos a: Dr. Jonathan Ballou, Instituto Smithsonian, EEUU Dr. Jesús Maldonado, Instituto Smithsonian, EEUU Dra. Cristina Miyaki, Universidade de Sao Paolo, Brasil Dra. Andrea Premoli, Universidad del Comahue, Argentina Dr. Antonio Solé-Cava, Universidade Federal do Rio de Janeiro, Brasil

Está abierta la recepción de resúmenes para presentaciones orales o en forma de cartel de trabajos científicos desarrollados en América Latina, enfocados en el uso de herramientas genéticas para solventar problemas en conservación:

<http://www.regenec.org/taller/may2014/-resumenes.php> La fecha límite para la recepción de resúmenes es el 10 de enero de 2014. Los idiomas oficiales del congreso serán castellano y portugués.

Para consultar el cronograma completo del congreso, así como los cursos intensivos pre- y post-congreso, la mesa redonda de los graduados de cursos ReGeneC, los simposios/foros y becas, ver:

<http://www.regenec.org/taller/may2014/> Les esperamos en mayo! - El comité coordinador

ReGeneC es una red de investigadores y otras personas trabajando en la conservación de América Latina, dedicada al apoyo del crecimiento y desarrollo de la genética para la conservación en la región: <http://www.regenec.org/> kmrodriguezclark@gmail.com

Ventura PredatorPrey Jan5-10

This conference touches on the evolutionary ecology of predator-prey interactions, so we figured that it would make sense to post it to Evol-Dir.

We anticipate the availability of a limited amount of NSF funding to support the attendance of graduate students and postdoctoral researchers at the first Gor-

don Research Conference on Predator-Prey Interactions (January 5th-10th, 2014 in Ventura, CA; see the bottom of this announcement for more information regarding this conference). NSF regulations require that this funding be restricted to U.S. citizens, and preference will be given to women and underrepresented minorities. All awardees must present a poster on their research at the conference.

Successful applicants will receive a \$500.00 credit towards the \$1,000.00 cost of GRC attendance. The cost of attendance covers registration, meals, and hotel accommodations for the duration of the five-day conference, but DOES NOT include the cost of transportation to/from the conference.

Members of underrepresented minority groups are also encouraged to apply to the GRC-run Carl Storm Underrepresented Minority Fellowship program (CSURM; <http://www.grc.org/diversity.aspx>). Eligible applicants can receive both CSURM and NSF funds; if CSURM funds are awarded, NSF funding will provide an additional \$200.00 towards the cost of attendance.

To apply, send an E-mail to the Chair of the Program Advisory Committee (Evan Preisser; preisser@uri.edu) that provides the following information:

1. Name
2. Country of citizenship (restricted to U.S. citizens)
3. Institution
4. A brief statement of your qualifications for receiving the award (e.g., career stage [postdoctoral researcher, Ph.D. candidate, Ph.D. student, M.S. student], member of preference group, etc.)
5. A 5-6 sentence description of how you would benefit from attendance at this conference.
6. A statement that, if you receive \$500.00 in NSF funding, you will attend the conference and give a poster on your research.
7. A statement that, if you receive \$500.00 in NSF funding, you possess financial resources sufficient to cover the remaining cost of attendance (\$500.00 plus the cost of travel to/from Ventura CA)

All applications must be received by November 18th. There are only 20 places remaining for conference attendees, so please file your application ASAP. Successful applicants will be notified immediately after we receive the anticipated funding (estimated to be late November/early December).

If you have any questions, please contact Evan Preisser at preisser@uri.edu.

Gordon Research Conference on Predator-Prey Interactions

5-10 January, 2014; Ventura, California

www.grc.org/programs.aspx?year=2014 < <http://www.grc.org/programs.aspx?year=2014&program=predator> > &program=predator

The theme of this inaugural conference is

>From Genes to Ecosystems to Human Mental Health

Liana Zanette (Chair, Western U), Andy Sih (Vice-Chair, UC Davis)

Gordon Conferences are recognized as the world's premier scientific conferences, where 150-200 leading investigators from across the globe meet biennially for a full week of intense discussion of the frontier research in their field.

To register please visit: www.grc.org/application.aspx?id779 The goal of the Predator-Prey Interactions Gordon Research Conference is to explore the unique insights to be gained from an interdisciplinary focus on phenomena specific to predator-prey interactions, and our list of confirmed speakers and contributors accordingly includes ecologists, evolutionary biologist, neuroscientists, physiologists, developmental biologists and human psychologists.

The structure of the meeting aims to foster as much dialogue as possible in order to facilitate as many new collaborations as possible, that are sure to lead to new synergies and new avenues of research.

Please visit our updated website that includes details on registration, organization and the confirmed speakers. Please spread the word about this exciting new conference among your colleagues and please also encourage post-docs and students to attend. Our primary objective is to ensure that every attendee is an active participant.

SESSIONS AND CONFIRMED SPEAKERS

Establishing an Interdisciplinary Approach to Predator-Prey Interactions

Larry Dill (Discussion leader), Oswald Schmitz, David Diamond

The Neurobiology of Predator-Induced Fear

Phillip Zoladz (Discussion leader), Joel Brown, Newton Canteras, Ajai Vyas, Jacqueline Blundell

Inducible Morphological Defences

Peter Eklöv (Discussion leader), Rick Relyea, Ralph Tollrian

Predators as Stressors: Integrating Human and Animal

Models

Jay Schulkin (Discussion leader), Michael Clinchy, Michael Sheriff, Vivette

— / —

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>

York UK Evolutionary Entomology Aug3-8

Dear evoldir members,

may I please inform you of the Xth European Congress of Entomology 2014, to be held at York (UK), 3-8 August. Many of the 40+ topics have a relation to evolutionary topics, all available from 'Draft Timetable' on our website www.ece2014.com. Registration is now open through the same website (see organiser contact details). Plenary speakers include Nancy Moran, Janet Hemingway, Bruno Lemaitre, Chris Thomas, Vojtech Novotny and John Pickett.

Sincerely, Klaus Reinhardt

Dr Klaus Reinhardt Royal Entomological Society Council Member Programme co-ordinator for ECE2014 klaus@royensoc.co.uk

Animal Evolutionary Ecology, University of Tuebingen <http://www.uni-tuebingen.de/?id=14671> Klaus Reinhardt <klaus@royensoc.co.uk>

York UK Insect Virus Evolution Aug3-8

Session announcement: "Insect-virus interactions: Molecular biology, Ecology and Evolution" at the European Congress of Entomology in York, UK on the 3rd-8th August 2014.

The Keynote speaker for the session is Jean Luc Imler (CNRS, Institut de Biologie Moléculaire et Cellulaire, France http://www-ibmc.u-strasbg.fr/ridi/profil.php?equipe_id=13).

The congress as a whole promises to have some exciting sessions with related sessions on various aspects of insect-parasite interactions (immunology, symbionts, genomics, ecology and evolution), and plenary speakers in related fields to this symposium (Bruno Lemaitre - Ecole Polytechnique Federale and Nancy Moran - Yale University). For the draft programme see: www.ece2014.com. This session will bring together an exciting mix of evolutionary biologists, molecular biologists and ecologists to understand the ways in which viruses shape insect function and evolution.

Deadline for abstract submission is the 25th January 2014. To submit an abstract for a talk/poster please email b.longdon@gen.cam.ac.uk with the subject "ento14 virus symp" including a completed abstract form (form found here <http://goo.gl/mM6S40>). Registration and other info can be found here: www.ece2014.com Each talk = 12 min + 3 min questions. Presenters not offered talks may present posters.

Postgraduate students are eligible to apply for assistance from the RES to attend the meeting: http://www.royensoc.co.uk/awards/-ORF_and_CPF_Grants.htm Poster info:

In addition to the regular A0 poster size (841 x 1189 mm, portrait orientation) we will be adopting a second poster format of so-called essence poster. This is an A3 poster presenting preliminary data, data that need to be discussed more informally or are an outlook of a project. The advantage of these essence posters is that every participant will be able to present something, which is important as funding for congress participation is often available only if something is being presented.

Session organisers: Ben Longdon, Frank Jiggins and Darren Obbard.

bjl48@hermes.cam.ac.uk

YosemiteNP Symbioses May3-4

Conference: Symbioses (Yosemite, CA)

Dear Colleagues, The Fourth annual Symbiosis Workshop will take place on May 3-4, 2014 at the Sierra Nevada Research Institute, Yosemite National Park. This is an integrative meeting of biologists focusing on symbiosis research Co-organized by Mnica Medina (UC Merced) and Joel Sachs (UC Riverside) Keynote speaker: Dr. John Pringle from Stanford University. Aiptasia, a model system for dinoflagellate-cnidarian symbiosis±

Information about our meeting:

Why: Our goal is to better integrate scientists that focus on symbiosis research. We plan to continue annual workshops at Yosemite as this site is both beautiful and secluded. This will be our 4th annual meeting and we are now attracting scientists from all over the country and overseas.

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

When: The meeting will be held May 3-4, 2014, though we make accommodation arrangements available for attendees to arrive on Friday the 2nd to provide opportunities to enjoy the park. Since time at the conference is limited, we ask attendees to submit an abstract and a preference (talk versus poster). Priority will be given to those presenting. Abstract and early bird registration are due on January 15th, 2014.

Where: SNRI has a set of cabins in Wawona and all within a short walk of the conference room. **Costs:** See details in the registration page. We will only be able to accept credit card payments this year.

Link to meeting information: <http://www.sachslab.com/symbiosis-2014.php> Registration link: <http://snri.ucmerced.edu/node/202> Please direct any questions to the organizers: Monica Medina, momedinamunoz@gmail.com, Joel Sachs joels@ucr.edu Becca Fenwick (SNRI) bfenwick@ucmerced.edu

Joel Lawrence Sachs <joel.sachs@ucr.edu>

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AWIPotsdam aDNA Paleoeology

PhD ancient DNA analyses & palaeoecology at the Alfred Wegener Institute, Helmholtz-Centre for Polar and Marine Research

The department of Geosciences, section Periglacial Research, invites applications for a position as

PhD Student

in the fields ancient DNA analyses and palaeoecology

The PhD student will characterize late Pleistocene and Holocene arctic ecosystems, in particular employing analyses of ancient DNA and plant macrofossils from permafrost deposits. The work will be carried out within the scope of the CarboPerm project (Carbon in Permafrost: Generation, Transformation and Release).

Requirements:

* University degree (master or equivalent) in biology or

a related discipline * Experience with standard molecular genetic techniques (DNA extraction, PCR, Sanger sequencing). * Good analytical skills, familiarity with the analysis of DNA sequence data, including phylogenetic and population genetic approaches. * Readiness to participate in expeditions to Siberia * Fluency in written and spoken English * Training in paleoecology is a plus

The position will be funded for three years, commencing as soon as possible.

The salary will be paid in accordance with the German Tarifvertrag des öffentlichen Dienstes (66% TVöD (Bund), salary group 13).

For further information please contact Prof. Ulrike Herzschuh, phone: 0049-331-288-2165, e-mail: Ulrike.Herzschuh(at)awi.de.

The AWI aims to increase the percentage of female scientists among its employees and therefore encourages qualified candidates to apply.

Disabled applicants will be given preference when equal qualifications are present; please see the notification on our homepage under job offers / jobs.

The AWI fosters the compatibility of work and family through various means. Because of our engagement in the area of work-life compatibility we have been awarded the certificate "Career and Family".

Please forward your applications with the standard documentation (motivation letter, CV, degree certificates, abstract of the Master thesis) by November 28th, 2013 under the reference code 92/D/Geo-P by e-mail to Prof. Ulrike Herzschuh or by post to:

Alfred Wegener Institute Helmholtz-Centre for Polar and Marine Research Personnel Department Postfach 60 01 49 14401 Potsdam Germany

Laura.Epp@awi.de

Canberra DaisyEvolution

* Are you passionate about a career in plant science? * Access CSIRO's world-class facilities * Work with the Systematics Research Group within the Centre for Australian National Biodiversity Research

The Position:

Applications are invited for a three year postgraduate project at CSIRO Plant Industry, Australia's lead-

ing plant science institute. The project will examine the evolutionary and biogeographic history of the Australian snow daisies (*Celmisia*) using a combination of morphological, cytological, molecular and distribution modelling approaches. The position will be situated with the Systematics Research group within the Centre for Australian National Biodiversity Research (CANBR) at Black Mountain in Canberra, ACT. The CANBR is a joint venture of CSIRO and the Australian National Botanic Gardens and houses with the Australian National Herbarium one of the most important national biodiversity collections.

Specifically you will: * Conduct field work and sample collection in south-eastern Australia and Tasmania, and use morphological, cytological and molecular data (e.g. Genotyping-by-Sequencing) to test species boundaries and taxonomic concepts in Australian *Celmisia*; * Conduct a molecular phylogenetic study in the context of an international collaboration to infer the biogeographic and evolutionary history of the genus with a focus on the Australian species; * Use spatial data and distribution modelling to explore the impact of climatic oscillations on past and future habitat availability for ancestral and extant species.

Location: Canberra, Australia Salary: Australian Postgraduate Award (or equivalent) top-up scholarship \$10K per year Tenure: 3 years Ref No.: ACT13/03138

To be successful you will have: * Science Honours or international equivalent; * Demonstrated experience in, basic knowledge of, and interest in plant taxonomy, plant morphology, evolutionary biology, molecular systematics, and/or distribution modelling; * Ability to conduct botanical field work in montane and alpine environments; * Evidence of excellent written and oral communication skills in English; * Demonstrated ability to work effectively both independently and collaboratively with others in a team environment; * Preferably experience publishing research (e.g. results of honours project) in peer-reviewed English language journals.

About CSIRO:

Australia is founding its future on science and innovation. Its national science agency, the Commonwealth Scientific and Industrial Research Organisation (CSIRO), is a powerhouse of ideas, technologies and skills for building prosperity, growth, health and sustainability. It serves governments, industries, business and communities across the nation. Find out more! www.csiro.au . Our Business Unit:

CSIRO Plant Industry is promoting profitable and sustainable agrifood, fibre and horticultural industries, de-

veloping new plant products and improving natural resource management through world-leading research.

CSIRO prefers all applications to be lodged via our online careers portal (<http://www.csiro.au/careers>). Choose “Positions Vacant” and search for Reference Number ACT13/03138.

Applications close 29th November 2013 (11:30pm Australian Eastern Daylight Savings time).

Recruitment.Team3@csiro.au

CityUNewYork Microbial PopGenomics

Positions for 1-2 graduate students at Ph.D. Level are available in the lab of Dr Weigang Qiu in the Department of Biological Sciences at Hunter College of the City University of New York, located at the 68th Street/Lexington Avenue in Manhattan, New York City. The successful applicants are expected to develop new statistical methods and computational algorithms to test adaptive and non-adaptive mechanisms of genome evolution in bacterial pathogens of Lyme disease.

Up-to-date research projects, lab activities, and publications of the Qiu Lab are described on the lab website: <http://diverge.hunter.cuny.edu/labwiki/>. Applicants should have a Bachelor’s degree in either Biology with computer-programming experience in Linux/Unix environment, or Computer Science with college-level biology courses. The applicants are expected to apply to the Ecology, Evolutionary Biology, and Behavior (EEB) subprogram within the Biology Program at the Graduate Center (GC), City University of New York and meet all admission requirements. The Biology Program at CUNY GC is described at <http://www.gc.cuny.edu/Page-Elements/Academics-Research-Centers-Initiatives/-Doctoral-Programs/Biology>. The deadline for application is January 1, 2014. Application package can be found at <http://www.gc.cuny.edu/Prospective-Current-Students/Prospective-Students/Admission-Requirements>. Prior to filing a formal application, the applicant should contact Dr. Weigang Qiu by email (weigang@genectr.hunter.cuny.edu) with the subject line “Potential grad student”. Dr Qiu will make recommendations to apply after determining eligibility.

Biology Program’s statement on student support and

benefit is quoted below: “Each student admitted for doctoral study in Biology will have financial support for five full years of study, assuming the student remains in good academic standing and progresses on schedule in his/her doctoral research. The support includes tuition, \$25,000/year living allowance, and low-cost health benefits. First-year graduate students do not teach undergraduate class sections, but there is a small service component related to lab rotations and professional development. The living allowance in years 2-5 may include salary for teaching at one of the senior CUNY colleges.”

Weigang Qiu, Ph.D. Associate Professor Department of Biological Sciences Hunter College of the City University of New York 695 Park Avenue, New York, NY 10065 Office: 1-212-772-5296 Lab: 1-212-772-5721 Web: <http://borreliagenome.org/labwiki/> Weigang@GENECTR.HUNTER.CUNY.EDU

CityUNewYork StatisticalPhylogeography

The Carnival and Hickerson labs at the City University of New York have two new openings for PhD students who are interested in community-level population genetics and comparative phylogeography. The group is focusing on developing and implementing population genetic methods for understanding the evolutionary and demographic histories of co-distributed species assemblages.

The ideal candidate will have a strong interest and aptitude in quantitative biology, modeling, and programming as well as an interest in evolutionary genetics and biogeography. The lab welcomes qualified applicants with diverse backgrounds, including biology, anthropology, mathematics, physics, computer science, and related fields. These openings offer an opportunity for independent research in joint quantitative and empirical labs that have now 3 postdoctoral researchers, 6 PhD students and access to large-scale population genetic data.

The two labs are located in Manhattan and through an NSF-funded Dimensions of Biodiversity project focusing on the Atlantic Forest ecosystem of Brazil, there is a tight collaboration with the Kyle McDonalds group at City College of New York as well as with the research groups of Michelangeli and Thomas at the New York Botanical Garden. The lab benefits from a thriving

ing academic environment in New York City and has close ties with other biogeographically focused labs at CUNY and the AMNH, as well as being part of the CUNY subprogram in Evolution, Ecology and Behavior.

We anticipate that the positions would start in the Fall of 2014. Contact Ana Carnaval (acarnaval 'at' ccny.cuny.edu) or Mike Hickerson (mhickerson 'at' ccny.cuny.edu) if there is interest. Note that applications for Fall 2014 to the CUNY EEB subprogram must be received before January 1st.

For more information visit: http://www.sci.ccny.cuny.edu/biology/Carnaval/-Carnaval_Lab/Welcome.html & <http://hickerlab.wordpress.com/>

mhickerson@ccny.cuny.edu

ColoradoStateU MolecularEvolutionGenomics

The Sloan Lab in the Department of Biology at Colorado State University has opportunities for two graduate students to start in the Fall of 2014.

Our lab focuses on molecular evolution and genomics. Research themes include the evolution of mutation rates, co-evolution between the nucleus and organelle/endosymbiont genomes, and sources of evolutionary conflict between genomes. Many of our projects involve plants, but we also use other study systems (including insects and bacteria) to address evolutionary questions. Our research approaches include a combination of field collections in natural populations, genetic crossing experiments, molecular genetic wet lab techniques, and genomic/bioinformatic analysis. Graduate students will have the opportunity to develop their own projects (with guidance from their advisor) that are connected to some of the broader research themes in the lab.

Colorado State University is 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, a strong biking culture, and numerous great restaurants and breweries.

Students can apply directly to the Department of Biology or to affiliated interdisciplinary programs, in-

cluding the Graduate Degree Program in Ecology, the Program in Molecular Plant Molecular Biology, or the Cell and Molecular Biology Program. Successful applicants will receive a tuition waiver, health insurance, and a competitive stipend, with funding from a combination of teaching assistantships (TAs) and research assistantships (RAs).

Applications to the Department of Biology for the Fall of 2014 are due by January 15, 2014, but note that some of the affiliated interdisciplinary programs have deadlines as early as January 1. Students interested in joining the lab are strongly encouraged to contact Dan Sloan (dbsloan@rams.colostate.edu) prior to applying to discuss research opportunities and the best target program/department.

Additional information at the Sloan Lab website: <https://sites.google.com/site/danielbsloan/> Instructions for applying to the Department of Biology are available at the following site, which also contains links to affiliated interdisciplinary programs: <http://www.biology.colostate.edu/graduates/how-to-apply/> Dan Sloan Assistant Professor Department of Biology Colorado State University

dbsloan@rams.colostate.edu

DalhousieU PopulationGenomics

Graduate Student Positions in Population Genomics and Evolutionary Ecology

Positions: MSc and PhD graduate student positions are available in the Department of Biology at Dalhousie University in Halifax, Nova Scotia, working on the ecology, evolution, and conservation genomics of Atlantic salmon and Atlantic cod. These projects are part of a collaboration between Paul Bentzen (Dalhousie University) and Ian Bradbury (Fisheries and Oceans Canada [DFO]). The successful candidates will join a team of researchers conducting research on similar themes in a variety of marine and freshwater organisms.

The projects will entail use of next generation sequencing approaches to resolve signatures of adaptation across genomes and populations, and the use of molecular tools in mixture analysis and assignment. The research will combine applied scientific goals, such as developing advanced tools for fish stock delineation, with the opportunity to investigate basic scientific questions such as adaptation to climate and fishery induced evo-

lution. These multidisciplinary projects will offer training in state of the art genomic tools and techniques as well as experience in both university and government laboratory environments. Graduate students will have access to excellent laboratory facilities, including an in-house next generation DNA sequencer, as well as technical support in the field through DFO staff.

Qualifications: Honours degree or equivalent in biology (for an MSc position) and an MSc or equivalent (for a PhD position), and strong interests in molecular ecology and conservation biology. Experience in genomics or analysis of next generation DNA sequence data would be an asset but is not essential.

Application: Please email Paul Bentzen (paul.bentzen@dal.ca) (1) a letter describing your interest in this position and your previous research experience, (2) a recent CV.

Paul Bentzen <paul.bentzen@dal.ca>

DurhamU 2 PopulationGenetics

PhD studentships in the Molecular Ecology Group at Durham University

Impact of population bottlenecks on neutral and functional diversity in South Georgia reindeer

Open to all nationalities

Population bottlenecks and founder events are an important part of evolutionary process, generating stochastic variation among populations and potentially changing evolutionary trajectories. Natural selection is a weak force compared to genetic drift when population size is very small, yet strong selection could overcome this. In some cases the new environment will be novel, and local adaptation important for survival. There is, therefore some conflict between the expectation that genetic drift will dominate, and the need to adapt. The key question being address in this study will be the relative influence of selection and drift for populations founded in a novel environment where resources were abundant. Two well-documented bottleneck events founded reindeer populations on the island of South Georgia in the South Atlantic, each sourced from the same known herd in Norway. Extensive DNA resources are available from all three populations and next generation sequencing methodologies will be applied.

Population genetics at Y-linked and adaptive markers in delphinid Cetaceans

UK nationals only

Understanding the evolution of diversity among dolphin populations is important towards their effective conservation and management, and requires information on factors that promote philopatry, which may be different for males and females. It also requires an understanding of habitat dependencies and local adaptation. In spite of high dispersal potential, many dolphin species show population genetic structure over a small geographic scale for neutral genetic markers, indicating differentiation by drift. In some cases this population structure is associated with apparent habitat boundaries or foraging specialisations. Patterns of connectivity depend in part on dispersal strategies that will depend on factors such as social structure, group size, reproductive strategy, habitat dependence and inbreeding avoidance. The primary objective of this study will be to make use of available genomic data to identify polymorphic genetic markers linked to the Y-chromosome and functional loci, and screen these at the population level using archive DNA.

To apply please send to a.r.hoelzel@dur.ac.uk your CV and course records and have two letters of reference provided on your behalf. Application deadline is 10 January 2014. Preliminary contacts for further information on the projects are welcome.

“HOELZEL A.R.” <a.r.hoelzel@durham.ac.uk>

EMBL Bioinformatics

Please feel free to pass this on to any good undergraduates or Masters students who you think might be interested:

PhD Places at the European Molecular Biology Laboratory, including the European Bioinformatics Institute, Cambridge UK

EMBL is currently accepting applications for PhD positions. We are looking for exceptionally-qualified graduates with backgrounds in biological and physical sciences, mathematics, computer science, to start studies in October 2014.

Of particular relevance to this mailing list, Nick Goldman's research group at the European Bioinformatics Institute is hoping to recruit a student to work on topics in molecular evolution, concentrating on statistical

methods for sequence data analysis. There is also the possibility of working on the development of methods for storing digital information in DNA.

Applicants have to register online by 11 November, and have to complete their applications by 18 November 2013. Full details are given in the links below.

Nick Goldman

EMBL PhD Programme: <http://www.embl.de/training/eipp/> EBI-specific info: <http://www.ebi.ac.uk/research/eipp> online application: <http://www.embl.de/training/eipp/application/-index.html> Nick Goldman <http://www.ebi.ac.uk/research/goldman> European Bioinformatics Institute tel: +44-(0)1223-492530 European Molecular Biology Laboratory tel: +44-(0)1223-494522 Wellcome Trust Genome Campus, Hinxton, Cambridge CB10 1SD, UK goldman@ebi.ac.uk

Europe 9 AnimalBreedingGenetics

Dear all,

The European graduate School in Animal Breeding and Genetics (EGS-ABG *) offers 9 funded PhD projects, that are scheduled to start on September 2014. Students with a master degree in ABG or related fields, and with English proficiency, are invited to apply!

The list of projects: <http://www.egsabg.eu/spip.php?article33>

Details on the fellowships and the application procedure: <http://www.egsabg.eu>

Deadline for application: December 1st, 2013, 12:00 (CET)

Regards,

Grégoire Leroy

* EGS-ABG is an Erasmus-Mundus program, funded by the European Commission.

Grégoire Leroy - gregoire.leroy@agroparistech.fr

Maître de conférences - Lecturer

UMR 1313 INRA/AgroParisTech - Génétique Animale et Biologie Intégrative UFR Génétique, Elevage et Reproduction

Tel : +33 (0) 1 44 08 17 46 / +33 (0) 1 34 65 29 47 Fax : +33 (0) 1 44 08 86 22 / +33 (0) 1 34 65 22 10

AgroParisTech - 16 rue Claude Bernard - 75231 PARIS - Cedex05 INRA - Domaine de Vilvert - Bâtiment 211, 78352 JOUY-EN-JOSAS Cedex

Gregoire LEROY <gregoire.leroy@agroparistech.fr>

GEOMAR Kiel evol physiol fish

The Helmholtz-Centre of Ocean Research (GEOMAR) is one of the leading institutes in marine research in Germany. With 750 employees and a yearly budget of 65 Mio euro its major goal is fundamental and applied research in all areas of marine sciences. The research unit Evolutionary Ecology of Marine Fishes is offering a position for a

PhD student position on “Evolutionary physiology of fish larvae”

We are seeking a highly motivated and enthusiastic candidate who is expected to contribute to the EU-BONUS funded project BIO-C3: Biodiversity changes - causes, consequences and management implications co-ordinated by GEOMAR (co-lead by DTU-Aqua Copenhagen). The ability to work in a team of international scientists is required. The PhD position will be placed in the work package “genetic adaptation and ecophysiology” which focuses on physiological tolerance (including capacity for acclimatization), preference and phenotypic plasticity in relation to environmental factors on larvae of commercially important Baltic Sea fish species (herring and cod).

Project description

Biodiversity encompasses genetic diversity, species richness and habitat heterogeneity. Genetically determined physiological requirements and phenotypic plasticity during different life stages have major influence on species distribution patterns. For most species it is still unresolved whether or not the phenotypic divergence between ecologically separated populations results from local (heritable) adaptation, and whether or not genetic diversity enables populations to respond adaptively to changes. The physiological tolerance and preference will be experimentally studied in economically important fish populations (cod, herring) sampled across geographical (local to regional) scales and ecological gradients (e.g. salinity, pCO₂, temperature). These experiments will be combined with genetic analyses (gene expression, genome scans) to determine links between traits and functional genetic variance.

The GEOMAR provides excellent experimental facilities with running seawater, temperature controlled rooms and a CO₂ manipulation system. We have full access to the Center of Molecular Life Sciences Kiel with its state-of-the art next-generation sequencing facilities. Along with the University of Kiel and the Max Planck Institute for Evolutionary Biology in Plön, we offer a stimulating research environment with a focus on evolutionary ecology and biology. The PhD student will have the possibility to join the “Integrated School for Ocean Science (ISOS)” offering a wide range of courses for graduate training. Kiel is the capital of the most Northern state of Germany, directly located at the coast of the Baltic Sea. The town offers many opportunities for outdoor activities especially watersports.

Requirements

The successful candidate is required to have a Master or Diploma in Biology or related subject. Previous experience with the following techniques is advantageous:

- larval or adult fish rearing and breeding
- experimental design and statistical analysis
- molecular biology and population genetic methods

The position is available for 3 years with a salary according to TVöD-Bund 13 (66%, approx. 1400euro /mo net) of the German tariff for public employees. The earliest starting date is 1 April 2014.

The GEOMAR is an equal opportunity employer and encourages female scientists and scientists with disabilities to apply. Provided equal qualification, they will be preferentially considered.

Please send your application for this post not later than 20 December using the keyword “BIO-C3” via e-mail in a single pdf-document to the following address: bmoll@geomar.de

For further information please contact Prof. Thorsten Reusch (treusch@geomar.de) or Dr. Catriona Clemmesen (clemmesen@geomar.de) or visit the webpage: <http://www.geomar.de/en/research/fb3/-fb3-ev/> treusch@geomar.de

GLIER UWindsor SalmonGenetics

Funded Ph.D. position developing high performance Chinook salmon stocks for commercial aquaculture using state of the art genetics techniques (immediate start)

We are offering an exciting opportunity for an outstanding doctoral student (preference for Canadian citizen and landed immigrants) looking for a thesis incorporating both basic and applied science. This project networks university and government scientists with diverse expertise, commercial salmon farms and related industries and NGOs with the goal of maximizing farmed salmon performance while minimizing their impact on the environment. The position is funded by an NSERC Strategic Project Grant sponsored by six researchers from three different universities and will cover a salary up to \$26,000 (stipend and TA combined).

Aquaculture is one of Canada’s fastest growing industries with a total production value close to \$1 billion, but the industry must be careful to balance production economics with potential environmental impacts. This project will focus on improving the health and viability of the particularly lucrative commercial Chinook salmon stocks. To this end, the project will be based in the field off Vancouver Island, BC at a commercial salmon farm site. The samples will then be transported to Ontario for laboratory analysis in the state-of-the-art Environmental Genomics Facility (EGF) at the Great Lakes Institute for Environmental Research (GLIER). Gene transcription at loci known to play a role in disease resistance, growth and flesh quality will be examined using our brand new nanofluidic quantitative real-time PCR facility. Pathogen screening will be performed with the facility’s massively parallel sequencer (Ion Torrent) and SNPs will be used to assess differences in genetic diversity among the salmon families sampled.

Join us at the Great Lakes Institute of Environmental Research (GLIER) for an unique interdisciplinary doctoral experience where you will be mentored by our team of internationally renowned researchers and have unmatched hands-on access to cutting edge genetics facilities. All inquiries should be directed to Dr. Daniel Heath, Director of GLIER, at 519-253-3000 x3762 (dheath@uwindsor.ca).

saraj@uwindsor.ca

GoetheU Bioinformatics

The Department for Applied Bioinformatics in the Institute for Cell Biology and Neuroscience, Goethe University Frankfurt, is offering a

PhD student position

Evolution of stress-response networks in crop species

Project outline: Optimizing the efficiency of photosynthesis and increasing their stress tolerance are two main goals of improving crop species. Yet, in the vast majority of cases stress perception, signal transduction and response are studied in non-crop model organisms such as Arabidopsis, mosses and ferns, green algae and diatoms. An economic exploitation of these results, thus, stands and falls with the extent to which they can be integrated into a comprehensive evolutionary framework of stress perception and response, and the subsequent transfer to relevant crop species. Aim of this highly integrative research project is the development and application of novel methods for a reliable, automated and scalable tracing of functional protein networks across species and through time.

General information: The successful candidate will be supported by the FP-7-PEOPLE 2013 ITN CALIPSO (<http://itn-calipso.univie.ac.at/>) that investigates Calcium and phosphorylation-dependent signaling pathways in a broad variety of model organisms. The PhD student will be trained in state of the art bioinformatics methods of evolutionary sequence analysis. Complementary competence will be acquired by dedicated workshops and coordinated exchange programs within the ITN. â

Eligibility: Applicants must fulfill the eligibility criteria according to the regulations for fellowships in the Marie Curie ITN program. - Candidates must hold a Master/Diploma degree in Bioinformatics, Biology, or a related research field, obtained no longer than four years before the time of appointment. - The candidate must have resided or carried out her/his main activity (work, studies, etc.) in Germany for less than 12 months within the last 3 years prior to the starting date of the appointment. - Researchers can be nationals of any country within or outside of the EU. - Good knowledge of the English language (fluently speaking and writing) is essential.ï

Requirements: We expect good programming skills in at least one of the following programming/scripting languages: Java, Perl, Python, C, C++, or R. Experience in the management and analysis of high-throughput biological data is preferred. The successful candidate will be enrolled in the CALIPSO Marie Curie ITN. The condition of this program will apply for recruitment, salary and social benefits.

Employment: Contract duration is 36 months.

Application: Please send your application in electronic format to Prof. Dr. Ingo Ebersberger (neumaier@bio.uni-frankfurt.de), Goethe University,

Institute for Cell Biology and Neuroscience, Dept. for Applied Bioinformatics, Max-von-Laue Strasse 13, 60438 Frankfurt am Main, Germany. Applications will be accepted until the position is filled. Earliest starting date is October 2013. Please include the following documents into your application: - CV - Copies of all university degree(s) and school certificates (if possible, including university Grade Point Average scores) - A letter of motivation (1 page) outlining your qualification for the project - Two letters of reference - A list of publications (if available) â

The Goethe University advocates equality of opportunity for men and women and therefore expressly encourages women to apply. Persons with severe disabilities will be given preferential consideration in case of equal qualifications.

Anne Neumaier Goethe-University Frankfurt am Main Inst. for Cell Biology and Neurosciences Dept. for Applied Bioinformatics

Biologicum, Room 3.205 Max-von-Laue Str. 13 D-60438 Frankfurt Germany

Phone: +49 69 798 42110 Fax: +49 69 798 42111 email: neumaier@bio.uni-frankfurt.de

Anne Neumaier <neumaier@bio.uni-frankfurt.de>

Helsinki EvoDevo

PhD and Postdoctoral Positions in the Centre of Excellence in Experimental and Computational Developmental Biology (ECDev): <http://www.biocenter.helsinki.fi/bi/evodevo/ECDev.html>

The Academy of Finland funded Centre of Excellence programs are six year initiatives to foster new initiatives. The goal of our Centre of Excellence in Experimental and Computational Developmental Biology is to bridge computational models and experimental work on developing organs across multiple systems. We aim to determine how changes in development lead to different organ phenotypes, build realistic models of development and evolution of complex organs, and study the principles of modeling pattern formation. The main organ systems we work on are mammalian tooth, hair, mammary gland and fly wing. We use both established laboratory species (mice, fruit fly) and non-model species (different mammalian, fly, and reptile species).

We are seeking for motivated and talented graduate stu-

dent and postdoctoral candidates with proven research abilities to join our dynamic and international research community. Postdoctoral fellows should have previous experience in cell/molecular biology, developmental biology, evolutionary biology, imaging, bioinformatics, programming, or computational modeling. We are building teams where experimentalists and computational modelers work together, thus knowledge of disparate fields is not necessary. Applications are to be sent as a single pdf-file by December 31, 2013 by e-mail (Subject: Postdoc application or Graduate student) to ecdev-coe@helsinki.fi. The document should include a short cover letter describing your expertise areas and motivation for the position, CV (max 2 pages), and names and contact information of two to three references. Applications are reviewed as they are received.

The Institute of Biotechnology (BI) is an independent non-profit research and educational institute at the University of the Helsinki, located in the Viikki Biocenter of the Helsinki Science Park. BI's strategy is to carry our high quality research. With over 30% of the academic staff being foreigners, BI is one the most international research units in Finland. BI has research programs in Developmental Biology, Molecular Cell Biology, Genome Biology, and Structural Biology & Biophysics.

jernvall@fastmail.fm

IMPRS Germany **AnimalEvolutionPopGenet**

The International Max Planck Research School (IMPRS) for Organismal Biology offers several fully-funded PhD positions. The IMPRS is based in southern Germany and is jointly organized by the Max Planck Institute for Ornithology in Seewiesen and Radolfzell and the University of Konstanz. Outstanding students of all nationalities with a deep commitment to basic research in Organismal Biology are invited to apply.

More than 25 internationally recognized research groups actively participate in the PhD program and offer challenging, cutting-edge PhD projects in the fields of Behavioral Biology, Ecology, Evolutionary Biology, Physiology, and Neurobiology. For a list of all available PhD projects visit www.orn.mpg.de/projects. All students accepted to the program will be supported by stipends or contracts. The program offers a dedicated teaching program, high quality research experience, and

outstanding research facilities in an inspiring research and living environment. The working language is English. Each PhD student receives individual supervision and mentoring and is guided in her/his research work by a PhD advisory committee.

Deadline for the application is January 15, 2014. Interviews with the applicants are scheduled for Mid-March. Candidates accepted into the program may start latest September 2013. The Max Planck Society and the University of Konstanz are equal opportunity employers.

Qualification: Applicants should hold a MSc or equivalent degree in biology or a related discipline at the point of enrollment.

Queries should be mailed to the program office: IMPRS@uni-konstanz.de

Application: For the online application process visit www.orn.mpg.de/application.

More information at www.orn.mpg.de/IMPRS and www.facebook.com/OrganismalBiology.

IMPRS <IMPRS@uni-konstanz.de>

IowaStateU EvolutionaryBiology

GRADUATE OPPORTUNITIES IN EVOLUTIONARY BIOLOGY

Dean Adams: Evolution of the multivariate phenotype. We strive to understand microevolutionary and macroevolutionary patterns of phenotypic diversification, and the historical and ecological processes responsible for them using a comparative evolutionary framework to examine patterns and processes across related species over evolutionary time. <http://www.public.iastate.edu/~dcadams/> Anne Bronikowski: Integrative genomics of senescence in reptiles. We study senescence across multiple biological scales and use transcriptome sequencing, physiological assays, and mathematical modeling to understand molecular pathway evolution in reptiles and correlated evolution in cellular/organismal phenotypes and population demography. <http://www.eeob.iastate.edu/-faculty/BronikoA/homepage.html> Kirsten Hofmøckel: Metagenomics of microbial communities. We are especially interested in how plant-microbe interactions mediate biogeochemical responses to global climate change. Our approach integrates physiological, metagenomic and ecosystem process data. kirstenhofmoeckel@iastate.edu

mockel.org.

Matthew Hufford: Evolutionary Genomics of Wild and Domesticated Maize. Opportunities are available to study gene flow, adaptive introgression, and parallel adaptation to high altitude (e.g., in central Mexico and the Andes) in maize and its wild relatives. <http://www.public.iastate.edu/~mhufford/HuffordLab/home.html>. Fredric Janzen: Experimental and molecular evolutionary ecology of sex-determining mechanisms, primarily in reptiles. We mainly study aspects of temperature-dependent sex determination, employing field and lab approaches and integrating multiple genetic/genomic techniques, behavioral, physiological, and embryological assays, and quantitative modeling (comparative, climatological, demographic, etc.). <http://www.public.iastate.edu/~fjanzen/> John Nason: Evolution and ecology of plant-insect interactions. Research employs observational, experimental, and genetic approaches to understand how plant population size and reproductive traits are influenced by environmental gradients and how this variation, in turn, influences local- and geographical-scale dynamics in a pollination mutualism subject to parasitism. <http://jnason.eeob.iastate.edu/>

Kevin Roe: Systematics and conservation genetics of aquatic organisms. Current projects include 1) conservation genetics of endangered species including the endemic Iowa Pleistocene Snail, 2) molecular ecology of freshwater mussels (Unionoida, especially the role of hosts in maintaining gene flow or driving diversification, and 3) phylogenetic systematics and biogeography of molluscs, crustaceans and fishes. <http://www.public.iastate.edu/~kjroe/> Jeanne Serb: Evolution of sensory systems. We take a comparative approach to examine the origin of, and links between, sensory signaling pathways. Research approach integrates transcriptomics, molecular biology, protein expression, and phylogenetics. <http://serb.public.iastate.edu/>

Amy Toth: Behavioral genomics of social insects. We use a comparative approach to elucidate the mechanisms and evolution of social behavior, and our work is highly integrative, blending field studies, molecular biology, and bioinformatics. http://www.public.iastate.edu/~amytot/Toth_lab/Home.html Nicole Valenzuela: Evolution of sex determination and chromosomes in turtles: Our research spans classic ecology and evolutionary biology to evo-devo, ecological & evolutionary genomics to understand (1) Why do organisms vary so remarkably in the ways they produce males and females? and (2) What are the causes and consequences of chromosome evolution? <http://www.public.iastate.edu/~nvalenzu/>

Jonathan Wendel: Molecular and genomic evolution

of plants. We use genomic and systems biology approaches to study the mysterious and common phenomenon of polyploidy, with a special focus on the cotton genus. <http://www.eeob.iastate.edu/faculty/WendelJ/home.htm> Research assistantships, teaching assistantships, and a variety of fellowship opportunities are open to students. Students may apply to one of the interdepartmental graduate programs, such as Ecology and Evolutionary Biology

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JohnInnesCentre Norwich ParasiteEvolution

PhD studentship for October 2014 to September 2018
Molecular Evolution of Host-Specificity in a Plant Pathogen

John Innes Centre / University of East Anglia Supervisor: James Brown Application deadline: 29 November 2013 Details, including eligibility rules: <http://www.jic.ac.uk/students/search/details.asp?id=1111>

The study of variation in DNA sequences is a powerful tool to gain insights into biological evolution, both to investigate the past events which have shaped modern populations and to understand how current populations respond to natural selection. This project will give a student the opportunity to investigate the molecular evolution of an economically important fungal pathogen in order to understand how it has become a destructive parasite. The study organism is *Blumeria graminis*, the Ascomycete fungus which causes powdery mildew, a damaging disease of cereal crops and forage grasses. Three research questions are currently of particular interest:

1. How and when forms of *B. graminis* evolved which are highly specific to different cereal and forage crop species.
2. How fungal avirulence-effector genes evolve in such a way as to enable *B. graminis* to evade recognition by the host plant's resistance mechanism.
3. Which genetic mutations enable *B. graminis* populations to become insensitive to the fungicides used to control mildew in arable crops.

The project will combine research in molecular evolution with plant pathology and applicants with a spe-

cialist interest in either area can be considered. While currently topical questions have been outlined above, there will be scope for the student to develop her or his own interests. There will be good opportunities for working with other labs within the lively network of powdery mildew researchers in Europe.

Recommended reading: Host-specificity: Troch et al. 2013, *Molecular Plant Pathology* (in press: copy available on request), Host-parasite coevolution: Brown & Tellier 2011, *Annual Review of Phytopathology* 49:345-367, Blumeria genome: Spanu et al. 2010, *Science* 330:1543-6.

James Brown

Prof James K M Brown John Innes Centre,
Colney Lane, Norwich, NR4 7UH, England
<http://www.jic.bbsrc.ac.uk/staff/james-brown>
james.brown@jic.ac.uk

KansasStateU Genomics

GRADUATE STUDENT POSITIONS IN ECOLOGICAL/PHYSIOLOGICAL GENOMICS

The Ragland lab is moving to the Department of Entomology at Kansas State University in the spring of 2014, and I am seeking motivated, well-prepared masters and Ph.D. students for fall 14. Projects in the lab focus on discovering genetic variants that contribute to rapid evolutionary divergence and speciation among populations and statistically modeling the physiological networks that transduce genotypes to adaptive phenotypes. Phenotypes of interest include life history timing (insect diapause), thermal stress resistance, and capacity to exploit novel resources, especially in the context of environmental change. Experimental approaches span field ecology, genomics, transcriptomics, and organismal physiology, and rely heavily upon informatic processing and statistical modeling of large, next generation sequencing data sets (<http://www3.nd.edu/~gragland/>). Current projects include collaborations with Jeff Feder at Notre Dame and Dan Hahn at U. Florida, and opportunities for cross-disciplinary training in these labs may also be available. Ideally, candidates will have interests in several of these areas, and either a background in or an interest in learning Linux shell environments and scripting languages such as R, Perl, and Python.

The Department of Entomology at Kansas State Uni-

versity includes a number of strong research programs that blend basic research in life history ecology and evolution, physiology, and genetics with critical applied research targeting disease vectors, crop pests, and biocontrol agents. University wide, K-state is an excellent place to train in ecological genomics, housing the Ecological Genomics Institute (<http://www.ecogen.ksu.edu>), the Arthropod Genomics Center (<https://www.k-state.edu/agc/>), and the Interdepartmental Genetics Program (<http://www.ksre.ksu.edu/genetics/>). Competitive research fellowships are available, as well as internal and NSF-funded research assistantships offering full, 12-month support. Teaching opportunities are available, but requirements are minimal (one or two semesters).

Kansas State University is located in Manhattan, Kansas, a mid-sized, family-friendly college town with excellent schools, parks, a farmer's market, and a good selection of restaurants in Aggieville and downtown. Manhattan is located in the Flint Hills region of Kansas, and outdoor opportunities include nearby Tuttle Creek Lake, linear bike/running trail, and Konza Prairie, a large tall grass prairie reserve and LTER site.

Please direct inquiries to gragland@nd.edu. Include a brief statement of research interests, experience, and goals, CV, unofficial transcripts or a summary of academic achievement, and GRE scores, if available.

Greg Ragland Research Assistant Professor Environmental Change Initiative/Dept. of Biology University of Notre Dame 1400 E. Angela Blvd. South Bend, IN 46617 Tel. 574-217-4589 <http://www.nd.edu/~gragland/> Gregory.Ragland.3@nd.edu

McGillU AppliedEvolutionaryGenetics

PhD position at McGill University (with West Coast DFO Research Placement)

We are seeking a highly-motivated Ph.D. student with an interest in applied evolutionary genetics / ecological genomics and aquatic ecosystems to conduct research on the application of next-generation sequencing (NGS) for early detection of aquatic invasive species. This Ph.D. project is a collaborative one, involving researchers at McGill University and Fisheries and Oceans Canada, and is part of the Canadian Aquatic Invasive Species Network (CAISN; <http://>

[/www.caisn.ca/en/index.php](http://www.caisn.ca/en/index.php)). The successful candidate will develop an early detection method for aquatic invasive species that builds on validated DNA barcoding datasets. The method would enable rapid, simultaneous detection of a high number of potential invasive species.

The student will be co-advised by Dr. Melania Cristescu (McGill University) and Dr. Cathryn Abbott (Fisheries and Oceans Canada) and will also collaborate with other DFO and CAISN researchers. The successful candidate will also benefit from extensive research placement with the Pacific Biological Station in Nanaimo during the studentship. This position provides the opportunity to conduct research in invasion biology and will serve as an outstanding training ground for those interested in governmental, academic, or private-sector careers in biology and environmental science.

The preferred project start date is September 2014. There are no project funds for international student fees hence Canadian citizens, Canadian Permanent Residents, and international students that hold scholarships will be considered. Please send your CV and summary of research interests along with contact information for 2 references to Cathryn Abbott at Cathryn.Abbott@dfo-mpo.gc.ca by March 14, 2014. Cathryn.Abbott@dfo-mpo.gc.ca

MemorialU 2 BerryGeneticDiversity

Two master student positions in Plant Physiology and Genetics at Memorial University of Newfoundland

I am seeking two motivated master students to start a project on the ecological and genetic factors associated with the high antioxidant capacity in the wild partridgeberry (*Vaccinium vitis-idaea*: Ericaceae). This project aims at collecting understudied wild clones of partridgeberry across the island of Newfoundland and southern Labrador, analyzing the genetic diversity of clones using next-generation sequencing, and providing preliminary information on the genes associated with a high antioxidant capacity. The PhD student will work under the mentorship of Dr. Julissa Roncal, and will interact with collaborating investigators from Memorial University (Dr. Lourdes Pena-Castillo is a bioinformatician, and Dr. Fereidoon Shahidi is a plant physiologist), as well as graduate and undergraduate students.

Student's responsibilities:

Conduct fieldwork to collect leaves and fruits from wild partridgeberry populations (teamwork task).

Laboratory work include DNA extraction, a library preparation for next-gen sequencing, and measurements of total phenolics/antioxidant capacity of fruits

One student will conduct a phylogenetic tree of populations from single nucleotide polymorphisms (SNPs)

The second student will identify genes based on sequence similarity (BLASTp) and associate them to metabolic pathways (dcGO)

Student's qualifications:

A BSc degree in a related discipline (e.g. biology, botany/physiology, molecular biology, bioinformatics, biotechnology)

Experience in organismic botany, statistical analysis, phylogenetics and/or bioinformatics is highly desirable.

Excellent analytical, organization and communication skills.

Position characteristics:

Project start date is May 1st, 2014. The MSc program comprises two years with an annual stipend of \$17,500. The students will be expected to teach during the first half of their programs. The department of Biology at Memorial University has 29 faculty members and approximately 100 graduate students. Memorial University is Atlantic Canada's largest university offering a multicultural environment. The city of St. John's offers nice scenery with numerous walking trails close to campus, bars, concerts, and a very friendly, family-oriented community. Both positions are contingent upon the approval of funds by the Research and Development Corporation of Newfoundland and Labrador.

How to apply:

Interested applicants should send their CV, a one-page statement of research interests and career goals, transcripts, and contact information of 3 references (who have agreed to be contacted) in a single pdf or word file to Dr. Julissa Roncal at Email: jroncal@mun.ca.

For instructions on how to apply to Memorial's graduate program visit: <http://www.mun.ca/become/-graduate/apply/index.php> International students with strong credentials are welcome. Screening will begin immediately and will continue until the positions are filled.

– Julissa Roncal Assistant Professor Department of Biology Memorial University of Newfoundland 232 Elizabeth Avenue St. John's, NL Canada Office SN4102,

phone (709) 864 2241 Laboratory SN4096-4097, phone (709) 864 2093 Mobile: (709) 351 6771

Julissa Roncal <jroncal@mun.ca>

MemorialU PlantEvolution

Graduate position: Two MSc student positions in Plant Physiology and Genetics at Memorial University of Newfoundland-Canada

I am seeking two motivated master students to start a project on the ecological and genetic factors associated with the high antioxidant capacity in the wild partridgeberry (*Vaccinium vitis-idaea*: Ericaceae). This project aims at collecting understudied wild clones of partridgeberry across the island of Newfoundland and southern Labrador, analyzing the genetic diversity of clones using next-generation sequencing, and providing preliminary information on the genes associated with a high antioxidant capacity. The master students will work under the mentorship of Dr. Julissa Roncal, and will interact with collaborating investigators from Memorial University (Dr. Lourdes Pena-Castillo is a bioinformatician, and Dr. Fereidoon Shahidi is a plant physiologist), as well as graduate and undergraduate students.

Student's responsibilities: - Conduct fieldwork to collect leaves and fruits from wild partridgeberry populations (teamwork task). - Laboratory work include DNA extraction, a library preparation for next-gen sequencing, and measurements of total phenolics/antioxidant capacity of fruits. - One student will conduct a phylogenetic tree of populations from single nucleotide polymorphisms (SNPs). - The second student will identify genes based on sequence similarity (BLASTp) and associate them to metabolic pathways (dcGO).

Student's qualifications: - A BSc degree in a related discipline (e.g. biology, botany/physiology, molecular biology, bioinformatics, biotechnology). - Experience in organismic botany, statistical analysis, phylogenetics and/or bioinformatics is highly desirable. - Excellent analytical, organization and communication skills.

Position characteristics: Project start date is May 1st, 2014. The MSc program comprises two years with an annual stipend of \$17,500. The students are expected to teach on average 10 hours/week during the fall and winter semesters. The department of Biology at Memorial University has 29 faculty members and approximately

100 graduate students. Memorial University is Atlantic Canada's largest university offering a multicultural environment. The city of St. John's offers nice scenery with numerous walking trails close to campus, bars, concerts, and a very friendly, family-oriented community. Both positions are contingent upon the approval of funds by the Research and Development Corporation of Newfoundland and Labrador.

How to apply: Interested applicants should send their CV, a one-page statement of research interests and career goals, transcripts, and contact information of 3 references (who have agreed to be contacted) in a single pdf or word file to Dr. Julissa Roncal at Email: jroncal@mun.ca. This is a newly formed lab with more information at: <http://www.mun.ca/biology/-jroncal/> For instructions on how to apply to Memorial's graduate program visit: <http://www.mun.ca/become/-graduate/apply/index.php> International students with strong credentials are welcome. Screening will begin immediately and will continue until the positions are filled.

Julissa Roncal Assistant Professor Department of Biology Memorial University of Newfoundland 232 Elizabeth Avenue St. John's, NL Canada Office SN4102, phone (709) 864 2241 Laboratory SN4096-4097, phone (709) 864 2093 Mobile: (709) 351 6771 <http://-julissaroncal.wordpress.com/> jroncal@mun.ca

NIOOWageningenNL BehEcolEvol

Where: The Netherlands Institute of Ecology (NIOO-KNAW) in Wageningen, The Netherlands

What: PhD position: Negotiating over parental care: how do parents react to each other? (Vacancy number AnE-013090)

This PhD position (1.0 FTE) is funded by a grant from the Netherlands Organisation for Scientific Research (NWO) and will be carried out at the Department of Animal Ecology, Netherlands Institute of Ecology (NIOO-KNAW) in close collaboration with the Behavioural Ecology Group, Department of Animal Science, Wageningen University (WUR).

Project description: Family life is one of the most familiar forms of social behaviour, but we are still far from a complete understanding of the selection pressures shaping parental care. In particular, little is known about the behavioural rules that parents use to negotiate over

parental care. This project will use state-of-the-art radio tracking technology, together with acoustic recording, to simultaneously monitor the position and vocalisations of both members of great tit *Parus major* pairs in the wild during the nestling provisioning phase. The project will address questions such as: To what extent is the behaviour of pairs coordinated in time or space? And how is behaviour modified by proximity to the partner or signalling by the partner?

Requirements: We are looking for a highly motivated and enthusiastic person with an MSc or equivalent degree in evolutionary or behavioural ecology, or a related field, and with strong field, experimental and analytical skills. Candidates must be willing to organise and conduct intensive ornithological fieldwork and handle large volumes of data generated by automated data collection; have good organisational and (written and spoken) communication skills, and the ability to collaborate with others; be willing to travel internationally, to attend conferences, and visit other institutes; have a driving license.

Appointment: This is a temporary appointment, initially for 1 year and upon satisfactory progress prolonged for a maximum of 4 years total.

Salary: The gross salary starts at euro 2.083, - per month in the 1st year, and will gradually increase to a maximum of euro 2.638, - per month in the 4th year, scale P, Collective Agreement for Dutch Universities (CAO Nederlandse Universiteiten), plus 8% holiday pay and a year-end bonus. We offer an extensive package of fringe benefits.

Information: A detailed project description can be found at: <http://www.nioo.knaw.nl/phdnegotiation/>. Further information is available on request from Dr Kate Lessells (k.lessells@nioo.knaw.nl; Tel +31(0)317-473444). Information about the Netherlands Institute of Ecology can be found at <http://www.nioo.knaw.nl/>

Applications: Please send your application including complete curriculum vitae and names of three referees to vacature@nioo.knaw.nl. The closing date for applications is 15 November 2013, with interviews planned before the end of 2013.

K.vanOers@nioo.knaw.nl

NorthCarolinaStateU
AppliedEvolBiol

NSF-IGERT Genetic Engineering and Society: The case of transgenic pests. We are looking for three students interested in applying the tools of evolutionary biology, entomology, ecology, and molecular biology to important global challenges. Genetic pest management involves the manipulation of pest populations to suppress transmission of diseases like malaria, and to decrease densities of agricultural pests. Please see our website: <http://geneticengsoc.ncsu.edu/> Questions about genetic pest management are technical and scientific, but also deeply social. We believe students must acquire both an understanding of the technologies underpinning genetic pest management as well as an understanding of the social context in which those tools might be used. Because no single student can master all these complexities, our goal is to sponsor an academically and culturally diverse group of about 6-7 students in Fall 2014. With roughly equal representation of students seeking degrees in humanities/social sciences and mathematics/natural sciences, IGERT fellows in Genetic Engineering and Society will use their combined expertise to address specific agricultural pest systems that they choose with help of faculty mentors. In working together, students will gain from each other broader insights about global challenges than they would in a program focused on a single academic discipline.

Fellowships (\$30,000/yr) are available from our NSF grant for US citizens and permanent residents.

Contact: Fred.Gould@ncsu.edu

Fred Gould <fred_gould@ncsu.edu>

NorthCarolinaStateU
EvolutionaryBiol

The Graduate Program in Genetics is currently accepting applications for M.S. and Ph.D. students for the Fall, 2014 semester. This program was established in 1952, and is one of the longest running genetics graduate programs in the USA. The graduate training faculty are a highly interactive group performing research in all aspects of genetics from molecules to populations. Our research encompasses behavioral genetics, biomedical genetics, computational genetics and bioinformatics, evolutionary, population and quantitative genetics, and molecular, cellular and developmental genetics. Our faculty utilize a wide range of traditional and non-traditional model systems in their research. We consider graduate stu-

dents to be professionals in training, and provide a well-rounded program of academic, research and professional training. Students are intimately involved in program activities have a strong voice in shaping the program. We provide broad and comprehensive graduate training in genetics and also flexible academic programs tailored to meet the background and career goals of the individual student. For more information go to <http://genetics.sciences.ncsu.edu> or email Trudy Mackay (trudy_mackay@ncsu.edu) or Jim Mahaffey (Jim_mahaffey@ncsu.edu).

Trudy F. C. Mackay, PhD, FRS William Neal Reynolds and Distinguished University Professor of Genetics Department of Biological Sciences North Carolina State University Campus Box 7614 Raleigh, NC 27695-7614 Tel: 919-515-5810 Fax: 919-515-3355 Email: trudy_mackay@ncsu.edu

Trudy Mackay <trudy_mackay@ncsu.edu>

StockholmU Bioinformatics

PhD Studentship: Inference of protein function from domain architecture and orthology Stockholm Bioinformatics Centre, Stockholm University

The function of a protein is very challenging to establish experimentally. A faster route is to predict the function based on the amino acid sequence. This project will employ several approaches that use sequence features to this end. A major goal is to understand the functional impact of the combination of domains in multidomain architectures by analysing the evolutionary history of both individual protein domains and domain architectures. This will be done by developing computational tools for studying domain architecture, and by applying orthology analysis to entire proteomes. Another area of study is 'domain versatility', which indicates a domain's propensity to form functional partnerships with other domains.

The project includes both development of new algorithms and methods, as well as applications such as tools and workbenches to enable public access for database queries at <http://Pfam.sbc.su.se/> and <http://InParanoid.sbc.su.se/>. The methods include hidden Markov models, clustering methods, various statistical analyses, and own developed algorithms. The project involves programming, data analysis, benchmarking, as well as application of the developed methods to genes of particular interest in order to discover new protein

functions.

The successful candidate should have an M.Sc. in bioinformatics or related field, and knowledge of molecular biology. Alternatively, an M.Sc. in molecular biology or related field and at least 1 year of practical experience in bioinformatics research. Familiarity with sequence analysis techniques is essential, as well as a high level of motivation. Computer programming (e.g. Perl, Python, R, C++, Java), UNIX skills, and knowledge of biological database systems are necessary merit

Contact Information: Erik Sonnhammer Stockholm Bioinformatics Centre, Stockholm University, Sweden Dept. Biochemistry and Biophysics Erik.Sonnhammer@scilifelab.se Tel. Number: +46-(0)8-52481184 http://sonnhammer.sbc.su.se/-download/ads/Utlys_phd.131020.pdf How To Apply: <http://www.dbb.su.se/docs/Annon.2990.doc> Erik Sonnhammer <erik.sonnhammer@scilifelab.se>

TexasStateU HybridSpeciation

TxState.HybridSpeciationConservation

PhD Positions Available, beginning Fall 2014:

PhD student positions are available for full-time students interested in studying the evolutionary and ecological processes that lead to speciation in plants. The candidate will work with Dr. Noland Martin on National Science Foundation - funded projects examining speciation / reproductive isolation in Louisiana Iris, as well as conservation-oriented projects examining the origin (and continued persistence) of the endangered homoploid hybrid species *Iris nelsonii* (funded by the Louisiana Dept. of Wildlife and Fisheries). Research areas may include QTL mapping projects that examine the genetic architecture of reproductive barriers in Louisiana Iris, experiments examining pollinator and ecological isolation, and admixture mapping in natural hybrid zones. In addition, the student will be required to develop and execute independent research projects (with guidance / assistance from Dr. Martin) to complete the thesis/dissertation requirements. The position starts as early as September 2014. Funding for this project is provided by a renewable 9-month research / teaching assistantship at ~ \$30,000 +/- plus benefits for PhD-level students with the potential for an augmented 3-month summer salary should the student be performing satisfactory work and external funds remain available.

Texas State University - Dept. of Biology offers a strong environment in population ecology, population biology, wildlife, and conservation biology. Candidates are invited to apply to the PhD program in Aquatic Resources (<http://www.bio.txstate.edu/Graduate-Programs/Ph-D-Aquatic-Resources.html>) - a multidisciplinary degree-program that accommodates a wide variety of basic and applied interests in Biology.

Qualifications: Requirements include an interest in evolutionary biology, a valid drivers license, and the physical ability to traverse rugged swamp terrain. PhD candidates must have a demonstrated academic writing ability.

Interested persons should contact Noland Martin by e-mail (nm14@txstate.edu). To apply, please send a statement of interest, a CV, GPA, and GRE scores to nm14@txstate.edu. Reference letters will be solicited at a later date. Deadline: Jan 15 or until position(s) filled. Applications will be reviewed as they come in. A more detailed description of the research program and further information about our team's research are available by e-mailing or calling Noland Martin as well. Pdf reprints of recent lab publications can be found on the following website: <http://www.bio.txstate.edu/contacts/faculty/noland-martin.html> . Noland H. Martin Texas State University 512-245-3317 nm14@txstate.edu

noland.martin@txstate.edu

Texas AM Galveston MarineBiodiversity

Marine.Genetics

The lab of Ron Eytan, opening at Texas A&M, Galveston (TAMUG) in January 2014, is seeking outstanding and highly motivated PhD students. My lab studies the origin and maintenance of marine biodiversity, primarily in coral reef fishes, using genomic and computational methods. My lab has broad interests in phylogenomics and phylogeography, population genetics/genomics, and the geography and genetics of speciation in reef fishes. We work primarily in the Caribbean, but plan to expand to the Gulf of Mexico.

Current projects in the lab include 1) the study of hybrid breakdown in coral reef fishes, where we combine genomic data with live animal work, 2) cryptic speciation in Caribbean reef fishes, 3) using genomic data to track population fluctuations in reef fishes, 4) and

phylogenomics, where we are sequencing hundreds to thousands of genetic markers for phylogenetic inference at both deep and shallow time scales.

Students are free to develop their own project or work on ongoing research in the lab. All student projects can involve a mix of field work, lab work, and computing. Previous experience in any of these areas is a plus, as are excellent written and oral communication skills. TAs and fellowships are available for PhD student funding.

Students are admitted to TAMUG through the Interdisciplinary Graduate Program in Marine Biology (IDP). General information about the program, as well as application deadlines, can be found here: <http://www.tamug.edu/marb/Graduate/graduate.html> The Department of Marine Biology at TAMUG is home to a diverse, interdisciplinary faculty that provides instruction and training in evolution, molecular biology, microbiology, genetics, anatomy, taxonomy, physiology, and the behavior and ecology of estuarine/marine flora and fauna. The department is housed in new and modern facilities with brand new lab space. It is also home to the Sea Life Facility (<http://www.tamug.edu/sealife/Index.html>), which has phenomenal resources for live animal work and breeding.

Texas A&M University at Galveston is a special-purpose institution of higher education for undergraduate and graduate instruction in marine and maritime studies in science and for research and public service related to the general field of marine resources. The institution is under the management and control of the Board of Regents of The Texas A&M University System, with degrees offered under the name and authority of Texas A&M University at College Station.

Galveston is located on the Gulf Coast of Texas, 50 miles south of Houston. It provides easy access to field sites in the Caribbean and the Gulf of Mexico. It is a beautiful community with over 30 miles of beaches, a relaxed atmosphere, abundant leisure activities, excellent medical facilities, and first-rate restaurants. Interested candidates should send an email describing their motivation and research interests, along with a CV, to ron.eytan@gmail.com

Ron Eytan Postdoctoral Researcher Yale University Department of Ecology and Evolutionary Biology New Haven, CT USA ron.eytan@gmail.com <http://www.roneytan.com/>

ron.eytan@gmail.com

U Aberdeen
Beetle Experimental Evolution

Title:

Experimental Evolution in Seed Beetles: Alternative Pathways to Habitat and Resource Divergence in a Global Crop Pest Under Changing Climates < <http://www.findaphd.com/search/-ProjectDetails.aspx?PJID=48934&LID=12> >

Body/text:

A PhD position is currently available at the University of Aberdeen, UK. Supervisors: Dr Lesley Lancaster (University of Aberdeen), Dr Michael Ritchie (University of St Andrews) and Dr Jörgen Ripa (Lund University, Sweden)

– Research project description:

Climates are currently changing at an unprecedented rate, and many organisms are responding to these changes with dramatic range shifts involving evolutionary responses. Among the organisms most strongly affected by changing climates are small, exothermic animals such as insects, which can evolve rapidly and quickly disperse into available niches, often posing new threats to food security (as crop or stored-food pests), human and animal welfare (as disease vectors), and affecting overall ecosystem function.

The mechanisms of evolution and range shift under rapidly changing climates remain poorly understood. One question relates to the order of trait divergence, which has important consequences for how biodiversity is affected by environmental change. In a model of $\hat{I}\pm$ -niche priority for population divergence, organisms first evolve traits related to their within-community niche (i.e., the $\hat{I}\pm$ -niche), such as alternative patterns of resource-utilization, species-interaction, and micro-habitat use. New ways of interacting with their local habitat may then facilitate range expansion by providing new ways to overcome prior geographic limitations. Conversely, under \hat{I}^2 -niche priority, environmental change induces range shifts (i.e., adaptation to novel habitats and locales, the \hat{I}^2 -niche) prior to or in lieu of local, $\hat{I}\pm$ -niche differentiation. These alternative scenarios each have important implications for how organisms respond to changing climates over the long term. \hat{I}^2 -priority implies limited scope for fine-scale local adaptation, which may limit the success of

organisms that have nowhere suitable to go as climates change, while $\hat{I}\pm$ -priority suggests that climate change may trigger successful invasions and adaptive radiations. Each of these scenarios has been found to occur in a variety of natural systems, but the general conditions favouring each evolutionary pathway are currently unknown.

In this PhD project, the student will investigate conditions under which these alternative niche evolution scenarios may occur, using experimental evolution under quasi-natural selection in a captive lab colony of seed beetles (Coleoptera: Bruchidae). Seed beetles are major pests on stored legumes and grains worldwide, and have been shown to evolve local host-plant shifts (habitat utilization, an $\hat{I}\pm$ -niche component) and range shifts associated with evolving thermal tolerances (a \hat{I}^2 -niche component) in response to changing climates. Dynamic models developed by Jörgen Ripa (Lund University) suggest that the priority of $\hat{I}\pm$ - vs. \hat{I}^2 -niche evolution depends on the relative strengths of evolutionary trade-offs imposed by habitat shifts vs. alternative resource use, and also by dispersal capacities. We will conduct experimental evolution of replicate lineages in a two-habitat scenario with connectivity, where habitats are characterized by alternative thermal regimes. Within each habitat, individuals will also have the opportunity to adapt to new resources (i.e., new seed types). Rates of climate change within habitats, population densities, dispersal rates between habitats, and prior adaptations of initial lineages will be independently manipulated. Dynamic models of niche evolution pathways developed by Jörgen Ripa will inform experiments, and our experimental results can refine and parameterize future models. Controlled crossing experiments of resulting lineages will indicate the quantitative genetic basis of niche divergence along habitat and resource utilization axes, providing a mechanistic explanation for observed patterns. The project can also be further developed to incorporate genomic methods for understanding the mechanisms of niche evolution.

The outputs of this project will inform evolutionary theory and pest management decisions. The student will work under Lesley Lancaster at the University of Aberdeen, Michael Ritchie at the University of St. Andrews, and Jörgen Ripa at Lund University. We will provide training in experimental evolution, quantitative genetic and genomic methods, and relevant background and training in individual-based modelling approaches for predicting niche evolution trajectories.

– Funding Notes:

EASTBIO BBSRC Studentship: the scholarship will cover four years fees and stipend for UK/EU* students

only.

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UAlberta HostParasiteEvolution

Graduate position V Ecology and Evolution of Host-parasite Interactions

UAlberta.HostParasiteEvolution

A graduate research position (MSc or PhD*) *is available in Dr. Lien Luongs research group (http://www.biology.ualberta.ca/faculty/lien_luong/) at the University of Alberta. Students interested in the ecology and evolution of infectious diseases and/or parasite-host interactions are encouraged to apply.

Pathogenic organisms that are harmless under certain conditions can suddenly become extremely harmful under different circumstances. Indeed levels of parasitism vary continuously in nature, with some species shifting along a continuum from benign to pathogenic over ecological and evolutionary time. One of our goals is to investigate the life-history evolution of parasites that express variation in host exploitation strategies, and identify the selection pressures that lead to the transition to a parasitic lifestyle. Facultative parasites present a unique and interesting opportunity for addressing these questions because they regularly shift from free-living to parasitic lifestyles. The student will perform laboratory manipulations and artificial selection to investigate the ecological and evolutionary transition to increased infectivity.

The Department of Biological Sciences at U of A is one of the largest and most scientifically diverse departments of its kind in Canada. We offer research-orientated, thesis-based graduate programs at both the MSc and PhD levels. Study programs are tailored individually to graduate student needs and emphasize interdisciplinary thinking. All students accepted into our MSc program have guaranteed funding for at least 2.3 years and 5 yrs for the PhD program. Teaching training is provided and is mandatory for all students on graduate teaching assistant-ships. With ~200 graduate students, >70 full-time faculty, excellent support facilities and ample research funding, a

vibrant and exciting learning environment is provided. For more information about applying to the graduate program: <http://www.biology.ualberta.ca/programs/-graduate/prospective/> Highly motivated and independent students interested in developing their own research ideas are also encouraged to apply. If you know of an exceptional student who might be interested, please forward this information onto him/her. For more information, please contact Dr. Lien Luong (lluong@ualberta.ca).

Lien T. Luong, PhD Assistant Professor Department of Biological Sciences CW 405, Biological Sciences Bldg. University of Alberta Edmonton, AB T6G 2E9 Canada Office: (780) 492-1818

Lien Luong <lluong@ualberta.ca>

UAuckland FishDemography

PhD Scholarship in Fish Biology at the University of Auckland, New Zealand

A PhD scholarship is available in the School of Biological Sciences for a project on the demography of the leatherjacket, *Meuschenia scaber* (Teleostei, Monacanthidae). The main goal of this project is to obtain the necessary parameter estimates required for constructing demographic growth models of this fish species. Leatherjackets are the subject of a significant coastal bycatch fishery, but little is known concerning their age and growth. Consequently, demographic data are required for MPI to meet its strategic priority of ensuring that the use of this fishery resource is sustainable. Maximum age and growth rates will provide important information on the productivity of leatherjackets. This research provides an excellent opportunity for training in fish biology in general, and in particular the skills necessary to assemble the parameters required for fishery management, i.e. variability of length at age, length-weight relationship, natural mortality rate, and proportion mature at length or age. Some diving experience would be useful, as the project will involve a field component. The project will be supervised by Professor Kendall Clements (University of Auckland), and Dr Elizabeth Laman Trip (Massey University, Albany).

The project is supported by the NZ Ministry for Primary Industries and the University of Auckland Partnership Postgraduate Scholarship Fund. The Scholarship consists of a tax-free stipend of \$25,000 and tuition fees of \$6,014 per year. The Ministry for Primary In-

dustries contribution is half the value of the stipend and half the value of tuition fees. The School of Biological Sciences is also supporting half the value of the stipend and half the value of tuition fees per year plus the standard student support. This Scholarship will provide support for up to 36 months of study. The stipend applies to full-time enrolment only; therefore, the value for part-time students will be pro-rated accordingly. The Ministry for Primary Industries will provide additional funding for operational costs.

The estimated start date of the project is in Semester 1 2014. The University of Auckland will administer the funding. Scholarship payments will be arranged once the student is confirmed as enrolled in the doctoral programme of the School of Biological Sciences. Interested students should contact Kendall Clements by email (k.clements@auckland.ac.nz) by Friday, December 20 2013. Students with queries about eligibility for the doctoral program should contact Sue Skelly, Manager (Academic Operations) (s.skelly@auckland.ac.nz). elizabeth.lamantrip@gmail.com

UBern RodentParasiteCoevolution

Genomics and ecology of rodent and parasite speciation
PhD position, 3 years

Applications are invited for a PhD project investigating the processes and consequences of evolutionary divergence and hybridization in rodents and their effects on associated parasites. The project will combine fieldwork and genomic analyses of vole hybrid zones with investigations on the evolutionary ecology of rodent-borne viruses and other parasites. Our approaches bridge the fields of molecular ecology, evolutionary genomics and epidemiology, and aim to better understand the drivers of explosive speciation in *Microtus*, a prime example of very rapid evolutionary divergence in mammals.

I am seeking a highly-motivated candidate with excellent organizational skills who is able to work independently as well as in a team. The ideal candidate has a solid background in evolutionary biology, practical experience with modern molecular laboratory work and analysis methods in population genetics and phylogenetics. Experience with fieldwork on small mammals is not essential. Experience with R-programming, next-generation sequencing and bioinformatics is a plus. A

Master degree in a relevant field such as evolution, genetics, or similar, and a valid driver's license is required. Good knowledge of written and spoken English is expected. The project includes periods of fieldwork and laboratory analyses abroad, and the writing of several manuscripts for leading journals in the field. Some knowledge of German or French would be beneficial for living in Switzerland but it is not essential. The working language in our institute is English.

The CMPG offers a stimulating research environment with excellent research facilities. We are also part of the Swiss Institute of Bioinformatics (SIB). Information on the research group and the University of Bern, or life here in general can be obtained from www.cmpg.iew.unibe.ch and <http://bern.ch/>. The position is funded by the Swiss National Science Foundation for three years, and the anticipated starting date is February 1st 2014. Please send your application including a letter outlining your past research experience and particular motivation for this position (max. 2 pages), CV, list of publications (if available), abstract of Master or Diploma thesis and contact details of 2-3 referees in a single (!) pdf file to gerald.heckel@iew.unibe.ch For full consideration, your application should be received before November 22 2013.

PD Dr. Gerald Heckel

Computational and Molecular Population Genetics (CMPG) Institute of Ecology and Evolution University of Bern Baltzerstrasse 6 CH-3012 Bern, Switzerland Tel: +41 31 631 30 29 Fax: +41 31 631 48 88 Email: gerald.heckel@iew.unibe.ch <http://www.cmpg.iew.unibe.ch> Swiss Institute of Bioinformatics (SIB) <http://www.isb-sib.ch/-groups/Computational.Population.Genetics.htm> gerald.heckel@iew.unibe.ch

UBirmingham EnvironmentalGenomics

Recruitment of a PhD student at the University of Birmingham, Edgbaston campus, Birmingham, UK

School of Biosciences, Environmental Genomics Group

*PI: Dr Luisa Orsini** (*<http://www.birmingham.ac.uk/schools/biosciences/staff/-profile.aspx?ReferenceId=63090&Name=dr-luisa-orsini>)

**

PhD position in “Adaptive responses of natural populations to climate change”: opening January 2014

Open position for a 3 - years PhD position, salary £26,459 per annum including graduate school fees.

/Rationale/: Both climate change and land use (agriculture) are recognized as a major problem in freshwater, estuarine and coastal environments, leading to eutrophication (organic pollution) and ecosystem damage. However, although the loss of water quality is recognized for its impact on ecosystem functioning and economy, one of the major issues for all types of agricultural practices and land use (classified as non-point source pollution by the EU and US Environmental Protection Agency) is that they are not easily measured or controlled directly and therefore are difficult to regulate. The PhD student will measure the temperature related changes that can lead to eutrophication as well as study the effect of pesticides on ecosystem functioning. The approach optimized for these two stressors can be extended to other environmental stressors, making the proposed research of high impact.

*/Job description: /*We are seeking*/a motivated student who is looking forward to learning a multidisciplinary approach to science. He/she will work in a team of scientists with diverse and complementary expertise and learn from different fields of science. He/she will work in close collaboration with another PhD student focusing on paleogenomics and a postdoctoral researcher expert in bioinformatics. The applicant will establish a link between adaptive responses and specific environmental stressors (temperature and land use) through experimental evolution trials in mesocosm experiments. He/she will sequence population pools of evolved and control populations using high throughput sequencing technologies and identify signature of selection to temperature and land use changes using population genomics approaches. The results of this project will be a solid reference point for the analysis of adaptive responses in nature.

/Job requirements/

- 1) Master in Biology/Environmental Science/Biochemistry
- 2) Fluency in spoken and written English is required
- 3) Previous experience in experimental evolution and/or statistical analysis is preferred
- 4) Previous experience in scientific writing will be considered as added value
- 5) Previous experience in international laboratories will be taken into account

For enquiries, please send a motivation letter, your CV and email contacts of three referees to l.orsini@bham.ac.uk.

Dr Luisa Orsini Lecturer in BioSystems and Environmental Change Environmental Genomics Group, School of Biosciences, University of Birmingham Birmingham, B15 2TT, United Kingdom T: +44 (0)121 4145894 F: +44 (0)121 414 5925 Email: l.orsini@bham.ac.uk

Free associate Laboratory of Aquatic Ecology, Evolution and Conservation University of Leuven Ch. Deberiotstraat 32, 3000 Leuven, Belgium Email luisa.orsini@bio.kuleuven.be

websites: <http://www.birmingham.ac.uk/schools/-biosciences/staff/profile.aspx?ReferenceId=-63090&Name=dr-luisa-orsini> <https://bio.kuleuven.be/eeb/laeec/whoiswho/00058905/> http://www.researchgate.net/profile/Luisa_Orsini/-?ev=hdr_xprf L Orsini <l.orsini@bham.ac.uk>

UCMerced MolecularEvolutionGeneticCode

Ph.D. position in Molecular Evolutionary Systems Biology

A Ph.D. student position is available in the computational biology and evolution lab of David Ardell at the University of California, Merced. I seek a highly motivated Ph.D. student interested in developing a systems biological theory for the evolution of the genetic code. This position is supported by a 3-year NSF INSPIRE award entitled “Selection as an Organizing Principle: from Molecules to Languages.” As such, the successful applicant will have the opportunity to exchange and collaborate with applied mathematicians and cognitive scientists in the context of our Molecules to Minds project (<http://moleculestiminds.org>).

The Ph.D. project will 1) develop models for the evolution of macromolecular interaction networks, 2) extend models in our CMCpy code-base for code-message coevolution (<http://compbio.ucmerced.edu/-ardell/software/cmcpy/>), 3) develop or adapt new simulation methods on emerging computing platforms, and 4) address theoretical questions such as those raised by Vetsigian, Woese, and Goldenfeld (2006) Collective evolution and the genetic code. PNAS 103(28):10696.

The ideal candidate will combine strong programming

and quantitative skills with a passion for biological questions, experience in collaborative and interdisciplinary research, and scholarship in theoretical biology, evolutionary theory, systems biology, artificial life, and/or astrobiology.

UC Merced is a small, young and vibrant campus with excellent access to Yosemite National Park, the Sierra Nevada mountain range and the Santa Cruz coastal beaches and mountains.

To apply for this position, please apply to the Quantitative and Systems Biology program by December 15th. Please also send an e-mail to David Ardell at dardell@ucmerced.edu containing your CV and a cover letter in plain text or pdf formats.

For further information please see <http://compbio.ucmerced.edu/ardell> and <http://panorama.ucmerced.edu/news/researchers-win-prestigious-grant-study-similarities-language-molecules>

Please address inquiries to David Ardell at dardell@ucmerced.edu

David Ardell <david.ardell@gmail.com>

UExeter EnvironmentalStressBumblebeeParasites

GW4+ DTP - University of Exeter, Penryn & Streatham Campuses: Environmental stress and susceptibility to *Nosema* gut parasites in bumblebees

We are advertising for a PhD candidate to study the effect of environmental stress and susceptibility to *Nosema* gut parasites in bumblebees. This position is competitively funded by a NERC doctoral training program at the University of Exeter, Penryn and Streatham Campuses.

Bumblebees pollinate commercial crops and wild flowering plants. Many of these key pollinators have suffered drastic declines in recent years, with 2 of the 26 native British species having gone extinct in the last century. Both environmental stressors, such as habitat loss and pesticides, and infectious diseases can place a massive burden on bees. This project will investigate the effect of environmental stressors on the susceptibility of the bumblebee *Bombus terrestris* to infections with the microsporidian *Nosema ceranae*. *Nosema* is an intracellular parasite that has caused large-scale population declines in North American bumblebees. In honeybees, which are also affected by the newly

emerging *N. ceranae*, there is evidence that susceptibility to this parasite is under environmental variation: both pesticide exposure in the lab (Alaux et al. 2010) and harsh environmental conditions (Martin-Hernandez 2007) have been shown to increase parasite load or the negative effects of the parasite on the host. This project will use the tractable laboratory model system *B. terrestris* - which is also the second most valuable commercial pollinator next to the honeybee - to dissect the effects of environmental stressors on the parasite's ability to infect and harm its host. We will test how pesticide exposure, food limitation and temperature stress affect parasite susceptibility and virulence in the host. This work will be complemented by a study of how the parasite reacts to these stressors. The student will determine how the expression of virulence factors is affected when the host is exposed to environmental stressors. In combination with the results on virulence and susceptibility, this will elucidate whether fitness costs are driven by the host or the parasite. This project offers the opportunity to understand how the host-parasite interaction is affected by environmental stress both at whole organism and a functional level. In combination, these complementary approaches may provide new avenues for disease management in both honeybees and bumblebees and, more broadly, in other economically important hosts such as humans and fish.

References Alaux et al. (2010) Interactions between *Nosema* microspores and a neonicotinoid weaken honeybees (*Apis mellifera*). *Environmental Microbiology* 12(3)774-782.

Martin-Hernandez et al. (2007) Outcome of colonization of *Apis mellifera* by *Nosema ceranae*. *Applied and Environmental Microbiology* 73(20):6331-6338.

This project will be supervised by Dr. Lena Wilfert (University of Exeter, Penryn Campus) and Dr. Bryony Williams (University of Exeter, Streatham Campus). The majority of your project will be carried out at the Centre for Ecology and Evolution, combining many world-leading experts on host-parasite with experts in the ecology of pollinating insects. This will be combined with working in the Microbes and Disease group on the Streatham Campus, which takes a molecular functional approach to the same questions, bringing together leading experts in fungal molecular biology.

This PhD will provide you with hands-on training in evolutionary ecology and molecular biology, bridging the most common knowledge gap in modern environmental biology. The doctoral training program focuses on providing students with skills for academia and beyond, and you will be able to access tailored

training modules both in house and externally to suit your needs. You will receive intensive training in statistics and bioinformatics, including in-house Linux and Perl workshops, as well as generic skill training. Please contact Dr. Lena Wilfert for informal enquiries about the project (lena.wilfert@ex.ac.uk). For questions about the application process, please contact cles-studentships@exeter.ac.uk. More information and a link to the application form (<http://www.exeter.ac.uk/postgraduate/money/-studentships/application/>) can be found here <http://www.exeter.ac.uk/studying/funding/award/?id=3D1376>. Dr. Lena Bayer-Wilfert Royal Society Research Fellow Centre for Ecology & Conservation Biosciences, College of Life & Environmental Sciences University of Exeter, Cornwall Campus Tremough, Penryn, TR10 9EZ UK

Phone: +44 (0) 1326370723 Email: lena.wilfert@ex.ac.uk

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UExeter EvolInsecticideResistance

A funded PhD studentship at the University of Exeter in Cornwall. This work will look at the role of jumping genes in insecticide resistance. The work will be with Prof Nina Wedell and Prof David Hosken. Details of the post can be found at:

<http://www.exeter.ac.uk/studying/funding/award/?id=1347> Details of the Department at: <http://biosciences.exeter.ac.uk/cec/> Prof DJ Hosken Director, Centre for Ecology & Conservation University of Exeter, Cornwall Tremough, Penryn TR10 9EZ UK

01326 371843 D.J.Hosken@exeter.ac.uk http://biosciences.exeter.ac.uk/staff/index.php?web_id=david_hosken DJ Hosken <D.J.Hosken@exeter.ac.uk>

UExeter EvolutionHoneybeeDisease

BBSRC SWDTP studentship: The role of population structure in the evolution of honeybee disease

Supervisors:

Professor Mike Boots, Biosciences, University of Exeter. Dr Lena Wilfert, Biosciences, University of Exeter.

A competitively-funded Phd is available on the evolution of viral disease in the honeybee. The student will be based at the University of Exeter Cornwall Campus but will benefit from being joining a large international group focussed on understanding how different movement and management practices influence the evolution of virulence in honeybee parasites. The PhD project will involve a combination of laboratory and fieldwork (in the USA) to study how viral disease prevalence and evolution changes under experimentally manipulated spatial structures.

Prof. Boots has recently been awarded a BBSRC-NIH EEID grant with collaborators at Emory and the University of Georgia that will carry out a large-scale experiment that manipulates the spatial structure of honey bee populations to understand the processes that underpin and maintain virulence. Recent theory - developed in large part by Prof. Boots - has shown that the spatial characteristics of parasite transmission can have dramatic impacts on virulence evolution, with local interactions selecting for lower virulence (reviewed in Lion and Boots 2010). This important prediction has empirical support in laboratory systems (Boots and Meador 2007), but the question remains whether it is relevant to real-world disease interactions. Understanding the impact of spatial structure is particularly relevant for managed populations (such as agriculturally-managed plants and animals), in which spatial structuring of transmission is routinely modified, with potentially important ramifications for virulence. The aim of this grant is to examine how different management practices impact the evolution of virulence of the varroa mite. Prof. Boots' theory predicts that more extensive movement of bees will not only rather intuitively increase the spread the pathogen, it will make them more virulent.

In this PhD, you will use this experiment to ask how the spatial manipulation impacts on the viral pathogens of honeybees. These viral pathogens are implicated in colony collapse disorder and are likely to be as, if not more important than the varroa mite itself. You will study how the prevalence and transmission of viral pathogens change when the spatial structure of honeybee populations is manipulated. You will further test whether this results in changes in selection pressure on the viral pathogens, using sequence information and in-

tegrating virulence data from the larger project.

You will gain skills and be trained in (1) invertebrate pathology, (2) virology, (3) sequencing, (4) bioinformatics, and (6) theoretical modelling. You will carry out field work in the US and laboratory work in the UK with the opportunity to develop mathematical modelling skills if interested. This project provides particularly good training and employability skills as it is part of the BBSRC South West Doctoral Training Partnership (further details below), offering specialised taught courses at MSc level in the first year, combined with 2 rotation projects that will complement the PhD project and provide you with in-depth skills in bioinformatics and experimental manipulations of bees. Furthermore, this program includes a 3-month professional internship that will allow you to gain skills outside of academia. Please contact Dr. Lena Wilfert for informal enquiries about the project (lena.wilfert@ex.ac.uk). For questions about the application process, please contact cles-studentships@exeter.ac.uk

Boots, M. & M. Meador (2007). Local interactions select for lower infectivity. *Science* 315, 1184-1186.

Lion S, Boots M (2010) Are parasites "prudent" in space? *Ecology Letters* 13: 1245-1255.

This project has been shortlisted for funding by the BBSRC South West Doctoral Training Partnership (DTP), a collaboration between the Universities of Exeter, Bristol, Bath and Rothamsted Research institute. This project is one of a number that are in competition for funding. Studentships will be awarded on the basis of merit. The four year programme is designed to provide training in cutting edge world-class bioscience and food security research, including a structured first year of tailored taught courses and the completion of two laboratory rotations before progression onto the three year PhD. In addition, following the postgraduate training policy of the Biotechnology and Biological Sciences Research Council (BBSRC), all students will complete a three month professional internship, providing an invaluable experience of work outside of academic research. For further details about the programme please see <http://www.bristol.ac.uk/swdtp/>. Applicants for this studentship must have obtained, or be about to obtain,

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UExeter FisheriesGeneticManagement

PhD studentship: Genetic Management of the European Lobster

This studentship will be based at the Environment & Sustainability Institute, University of Exeter, Penryn Campus, and is subject to competition funding as part of the NERC GW4+ DTP.

Studies in major marine fish stocks (e.g. Atlantic herring and cod) have revealed unforeseen levels of population genetic structuring and local adaptation relating to temperature and salinity gradients, and to patterns of ocean currents. Subsequently, the management of these stocks (currently based primarily on geopolitical boundaries) must be adjusted to avoid over-harvesting locally adapted fish. However, management change may constitute a shock or disturbance in the existing social-ecological systems, and as such, incorporating genetic findings into management policies poses significant challenges. This project is highly interdisciplinary - first using transcriptome sequencing to understand local/environmental adaptation in a key commercial species (The European lobster), and second reviewing current management practices throughout Europe, and assessing the implications of genetic management on the relatively stable institutions and structure of the fishery. This project will provide opportunities to influence future management policy and contribute to global debates in fisheries management.

Supervisors: Dr Amber Teacher & Dr. Kirsten Abernethy - College of Life and Environmental Sciences, Environment and Sustainability Institute, University of Exeter Dr Dave Hodgson, College of Life and Environmental Sciences, Centre for Ecology and Conservation, University of Exeter Dr Neil Auchterlonie, Centre for Environment Fisheries and Aquaculture Science

For further information on the project, funding, eligibility requirements, and how to apply, please see here: <http://www.exeter.ac.uk/studying/funding/-award/?id=1368> If you have any general enquiries about the application process please email cles-studentships@exeter.ac.uk or phone +44 (0)1392 725150/723706/723310. Project specific queries should be directed to a.teacher@exeter.ac.uk.

The closing date for applications is midnight Friday 10 January 2014. Interviews are expected to take place in February.

Dr. Amber Teacher

Environment & Sustainability Institute, University of Exeter <http://www.amberteacher.info>

FoAM Kernow <http://fo.am/kernow/> Direct Phone: +44 (0)1326 259430 Twitter: @AmberFirefly

A.Teacher@exeter.ac.uk

UExeter PopGen Conservation Disease

NERC funded PhD studentship at the University of Exeter, Penryn Campus, Cornwall UK Population Genetic Impacts of an Emerging Wildlife Disease

Emerging infectious diseases (EIDs) are increasing worldwide, and have been implicated in amphibian population declines and species extinctions. Diseases can cause major changes to the genetic composition of host populations (e.g. through selection and bottlenecks), which in turn can influence the impact of future disease outbreaks. Furthermore, diseases can lead to changes in mating behaviour, which also alters the population structure, again influencing the impact of future disease outbreaks.

This project will use Common frogs (*Rana temporaria*) and ranaviral disease (an EU notifiable disease) as a model system to examine the interactions between disease, genome, and mate choice. In addition to addressing fundamental scientific questions, this proposal also addresses a direct conservation concern, as disease is one of the major drivers of the current global amphibian mass extinctions. Indeed, Ranavirus causes mass amphibian mortalities in Europe, North America and Asia, and long-term population declines in common frogs in the UK.

Using a combination of field and laboratory approaches, we will establish which genes are under selection in wild common frog populations in the UK, and which genes influence disease susceptibility. We will investigate disease-induced changes to mating in wild populations and establish the selective consequences. This studentship also offers the exciting opportunity to drive the project in directions that interest the student. Possible directions include establishing a comparable field system in Asturias (Spain), epidemiological modelling, behavioural experiments, and experimental co-evolution.

The studentship will be based at the Environment and Sustainability Institute at the University of Exeter, Penryn Campus in Cornwall, and will be supervised by Dr. Amber Teacher and Dr. Lena Wilfert. Additional support will be provided by the CASE partner, Dr. Trent Garner from the Institute of Zoology at the Zoological Society of London. Collaboration with the wildlife charity FrogLife and the Cornwall Wildlife Trust will be integral to the project, and interactions with the broader public are essential as field sites are primarily located in private gardens. An interest in science communication is desirable to facilitate interactions beyond academia.

This studentship is expected to begin as soon as possible. It is anticipated that the student will spend 1-3 months based at the Institute of Zoology in London during Spring 2014.

The College is working towards department Silver Athena SWAN 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.

Entry requirements: A strong first degree (at least an Upper Second Class Honours or equivalent, or the equivalent qualifications gained outside the UK) in a relevant subject. This position will involve working at field sites in the South East UK to carry out independent field work for which a driving licence would be an advantage.

This award provides annual funding to cover a stipend (£13,726 per annum for 2013-2014 from NERC, and £1,000 per annum top-up from the Institute of Zoology), research costs and tuition fees at the UK/EU rate for students who meet the residency requirements outlined by NERC (see <http://www.nerc.ac.uk/funding/-available/postgrad/eligibility.asp>). Students from EU countries who do not meet the residency requirements may still be eligible for a fees-only award. The studentship will be awarded on the basis of merit for three years of full-time study (part-time pro-rata).

Application procedures: Please upload the following documents (preferred format for uploaded files is .pdf) to the studentship application form (<http://www.exeter.ac.uk/postgraduate/money/-studentships/application/>) - CV (including any publications) - Covering letter (outlining your academic interests, prior research experience and reasons for wishing to undertake this project). - Transcript (this should be an interim transcript if you are still studying)

For further information please contact Dr. Amber

Teacher by email (a.teacher@exeter.ac.uk) or phone +44 (0)1326 259430.

If you have any general enquiries about the application process please email cles-studentships@exeter.ac.uk or phone +44 (0)1392 725150/723706/723310.

The closing date for applications is midnight Thursday 28 November 2013.

Dr. Amber Teacher

Environment & Sustainability Institute, University of Exeter <http://www.amberteacher.info>

FoAM Kernow

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- A passion for biology and a BS or MS degree in an appropriate biological science

- Appropriate GPA and GRE scores

- Strong written and spoken English language skills

- Field and/or laboratory experience appropriate for research in Plant Pathology

- Strong organizational skills and the ability to complete projects

To find out more about the Department of Plant Pathology at the University of Florida and our graduate programs, please visit: <http://plantpath.ifas.ufl.edu/>

For more details you may also contact our graduate coordinator, Jessica Ulloa <julloa@ufl.edu>

trufflesmith@ufl.edu

UFlorida PlantEvolution

Ph.D. Student Positions in Plant Pathology at University of Florida

The Department of Plant Pathology at the University of Florida (UF) is currently recruiting motivated Ph.D. students for Fall 2014. We are seeking students to study basic and applied aspects of plant-microbe interactions within the context of agricultural systems, including the evolution of plant pathogenic microbes. UF Plant Pathology offers a dynamic research environment that includes 37 faculty advisors and a vibrant, diverse graduate student population. The Department is headquartered at the main campus in Gainesville, Florida but many faculty are distributed across the state at nine different Research and Education Centers. Due to Florida's diverse climate, research in our department addresses a variety of plant pathogenic microbes on crops ranging from tomatoes and citrus to sugarcane and avocados. The wide array of crop-pathogen interactions in Florida provides unique opportunities for students in terms of research, extension, and hands-on education.

We anticipate at least two Ph.D. fellowships for 2014. Graduate student applications are due 1 January 2014 and accepted students will begin the Ph.D. program in August 2014. Graduate student fellowships include a competitive stipend and health care coverage. We are seeking students with:

UHouston EvolutionBiology

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 Evolutionary Biology and Ecology for Fall 2014. The following faculty in the area of Evolutionary Biology and Ecology 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) - Evolutionary genetics and multicellularity 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 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/index.php> <http://www.uh.edu/graduate-school/prospective-students/Admissions/index.php>

The deadline for application of prospective students is February 1st, 2014, but students are encouraged to apply as early as possible.

Ricardo B. R. Azevedo, PhD Associate Professor Associate Chair for Graduate Affairs 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

UIdaho EvolutionaryDiversification

2 PHD POSITIONS IN EVOLUTIONARY DIVERSIFICATION

I have 2 positions opening in Fall 2014 for PhD students to join the Parent lab in the Department of Biological Sciences at the University of Idaho (<http://www.uidaho.edu/sci/biology>) to work on one or more projects including:

- (1) Broad scale diversification patterns on island systems;
- (2) Role of intra- and interspecific competition in diversification;
- (3) Adaptive radiation of Galapagos endemic land snails.

The successful applicants could also study related questions in different systems. The positions are partially funded through Departmental Fellowships. Funding is guaranteed for five years with a combination of teaching responsibilities and potentially Research Assistantship.

My lab is affiliated with iBest (Institute for Bioinformatics and Evolutionary Studies - <http://www.ibest.uidaho.edu>), and the Bioinformatics and Computational Biology Graduate Program (<http://www.uidaho.edu/cogs/bcb>), so applications from students with a strong desire to learn computational skills will also be considered, and these students could apply to the BCB Graduate Program.

We have a very interactive department with a number of great evolutionary biologists (<http://www.uidaho.edu/sci/biology/people/faculty>). We are located in a beautiful part of the country, in a nice small friendly town in the Pacific Northwest in rela-

tively close proximity to many national parks, Seattle, and Portland.

Application information can be found at: <http://www.uidaho.edu/graduateadmissions>. For more information on the Parent lab please visit the lab website (currently hosted on the UC Berkeley server): <http://nature.berkeley.edu/~ceparent>. Applications are due on December 15, 2013. Contacting me well before the departmental deadline to discuss research interests will increase your chances of joining my lab. Please e-mail me a brief outline of your experience, and most importantly your interests, and we can discuss how being a member of my lab and the department can help you reach your goals.

Christine Parent, PhD Assistant Professor

Biological Sciences University of Idaho Phone: (512) 695-9862

E-mail: ceparent@gmail.com Website: <http://nature.berkeley.edu/~ceparent> ceparent@gmail.com

UIdaho TasmanianDevilGenomics

A PhD position is available in the Hohenlohe lab at the University of Idaho, part of an NSF-funded project on the population genomics of Tasmanian devils and devil facial tumor disease. This unique transmissible cancer poses a serious threat to persistence of the iconic Tasmanian devil. The student will have the opportunity to apply cutting-edge genomic and bioinformatic tools to important questions in the coevolution of infectious disease, genomic signatures of selection, cancer evolution, and conservation biology, all in the context of this biologically unique and high-profile system.

We seek a highly motivated individual, with experience or interest in conservation and population genetics, genomics, bioinformatics, or evolution of infectious disease. The student will join a collaborative team including the University of Idaho, Washington State University, and institutions in the UK and Australia. (S)he will be part of UI's Department of Biological Sciences and Institute for Bioinformatics and Evolutionary Studies (IBEST), a vibrant interdisciplinary group of researchers that forms a rich and supportive graduate learning environment. A Ph.D. can be earned through either the Biology or the Bioinformatics and Computational Biology (BCB) degree programs. UI is located in Moscow, a small university town with a high qual-

ity of life, including ample opportunities for outdoor recreation.

Please visit the websites below for more information and direct any inquiries to hohlenlohe@uidaho.edu.

Hohlenlohe lab: <http://webpages.uidaho.edu/~hohlenlohe> IBEST: <http://www.ibest.uidaho.edu> Biological Sciences: <http://www.uidaho.edu/sci/biology> Biology PhD program: <http://www.uidaho.edu/sci/biology/academics/grad> BCB PhD program: <http://www.uidaho.edu/cogs/bcb> Paul Hohlenlohe Institute for Bioinformatics and Evolutionary Studies Departments of Biological Sciences and Statistics University of Idaho <http://webpages.uidaho.edu/~hohlenlohe> hohlenlohe@uidaho.edu

UInnsbruck NextGenerationSequencing

MOLECULAR ECOLOGY, INSTITUTE OF ECOLOGY, UNIVERSITY OF INNSBRUCK PhD student position

We seek to hire a PhD student with training in practical field work (collection of arthropod samples) and molecular biology; some experience in Next-Generation Sequencing would be an asset but is not required. The position is a 36-months position at the Molecular Ecology group of the Institute of Ecology, starting from 1 March 2014; for details, see below.

Centering on the Alpine Space, the group's mission is interdisciplinary research, embedded in international collaboration networks. A list of research topics can be found at: http://www.uibk.ac.at/ecology/-forschung/molecular_ecology.html.en. ***Responsibilities*** 1. collection of samples of steppe arthropod species in Europe (Alps, Eastern Europe) and Asia 2. participation in restriction site associated DNA [RAD] sequencing of the study species (wet-lab and bioinformatic analysis) 3. phylogeographic and phylogenetic data analyses (BEAST, ABC-approaches, SPAGeDi) 4. manuscript writing 5. contact and collaboration with scientists at the Evolutionary Systematics group, Institute of Botany, Innsbruck University (Peter Schoenswetter, http://www.uibk.ac.at/botany/research/biodiversity/vascular_plants/index.html.en), as well as at other Austrian research facilities, and internationally

Selection criteria A. MSc degree or equivalent

graduation B. published research experience in biology C. experience in the use of relevant software packages for phylogeographic / phylogenetic analyses D. ability to conduct field work for several consecutive weeks E. ability to work as part of a multi-disciplinary team F. ability to work independently G. very good knowledge of English H. driving license for cars

Salary The annual gross salary is Euro 27,381 for a 36-months employment. The contract includes health insurance and 5 weeks of holidays annually.

Project details The successful candidate will participate in the molecular characterization of steppe organisms. The project consortium is international and includes members of the Universities of Innsbruck and Vienna (Austria), Lausanne (Switzerland) and the Real Jardín Botánico in Madrid (Spain). The project addresses the following issues: (1) Did the steppe biota colonize each Alpine dry valley independently or is there evidence for genetic exchange among the insular steppe habitats of different valleys? (2) What are the biogeographic connections of steppe biota from the Alpine dry valleys with other areas of steppe vegetation in Eurasia? (3) Are phylogeographic patterns seen in steppe plants and animals congruent, implying range shifts of entire communities or rather idiosyncratic suggesting individualistic responses to climatic oscillations? (4) Our phylogeographic approach will unravel intraspecific patterns of spatial differentiation and temporal diversification across steppe plant and animal lineages. These will then not only be compared to each other, but also to independent data sources. Changes of distribution ranges of our study taxa through time will be hindcasted using environmental niche modeling.

How to apply To apply, please submit by E-mail to <florian.m.steiner@uibk.ac.at>: a cover letter, systematic point-by-point replies as to your readiness for the responsibilities and how you meet the selection criteria, curriculum vitae, and complete list of publications. Arrange for at least one letter of recommendation to be sent to <florian.m.steiner@uibk.ac.at>.

Applications must be written in English. The deadline for receipt of all applications is 15 December 2013. Our decision will be announced to all applicants on 20 December 2013 the latest.

The research institution and its environment Detailed information about the Molecular Ecology group can be found at http://www.uibk.ac.at/ecology/-forschung/molecular_ecology.html.en. The University of Innsbruck has a long-standing and internationally renowned tradition in life sciences and offers a vibrant research atmosphere. It has 27,000 students and 4,000 staff members. Innsbruck is situated in the Alps and

very close to Switzerland, Germany and Italy; scenery and outdoor recreation are fantastic.

More information needed? For more information, please contact: Florian M. Steiner <florian.m.steiner@uibk.ac.at>

Florian M. Steiner Institute of Ecology, University of Innsbruck Technikerstrasse 25, 6020 Innsbruck, Austria Phone: +43 512 507-51750; Fax: +43 512 507-51799 www.uibk.ac.at/-ecology/forschung/molecular_ecology.html.en Florian.M.Steiner@uibk.ac.at

UJyvaskyla Finland EpigeneticsMammalianPop

PhD position (4 years) to study the significance of epigenetic processes in natural populations TITLE: Coping with uncertainty: the role of genotype versus epigenotype to overcome environmental challenges

Genetic components often explain only a small proportion of variation in evolutionarily important behavioural and life-history traits. Whilst it is imperative that we understand genetic mechanisms underlying these traits, there is increasing recognition that “non-genetic” or epigenetic DNA modifications generate important phenotypic variation which can constrain the evolution of adaptive alleles. This project will quantify the relative impact of genetic and epigenetic contributions to behavioural polymorphisms using the bank vole (*Myodes glareolus*) as a study system, where individuals face both strong seasonal and multiannual challenges in selection pressures. Our recent work has concentrated on the two neuropeptides (vasopressin and oxytocin) and their receptors that play integral roles in social and reproductive behaviour in mammals, but we aim to characterize more candidate genes that affect individual socio-reproductive behaviour in vertebrates.

We are looking for a motivated postgraduate who has strong interest in evolutionary questions and is ready to work hard to reach his/her goals. The student will join an international group of motivated people that has an excellent know-how to conduct studies on experimental evolution both in the laboratory and in the field. The background of the student can vary from evolutionary ecology to molecular biology, as the project can be planned to include different amounts of work in DNA-lab versus experimental and empirical field work.

Please contact [esa.m.koskela\(AT\)jyu.fi](mailto:esa.m.koskela(AT)jyu.fi) for further information! The deadline for applications is at 4:15 pm on 22 November 2013. Application is exclusively through the online procedure available at: www.jyu.fi/science/-en/applicationformphdstudents and should be accompanied with updated CV, a letter of motivation or research plan, and contact details of two references.

Esa Koskela: <http://users.jyu.fi/~emk/> More from the group: <https://www.jyu.fi/bioenv/en/divisions/eko/-research/tmappes> Publications: <http://users.jyu.fi/~tmappes/publications2.html> Esa Koskela, PhD University lecturer Dept of Biol and Env Science PO Box 35 FI-40014 University of Jyväskylä, FINLAND <http://users.jyu.fi/~emk/> esa.m.koskela@jyu.fi

UJyvaskyla Finland EpigeneticsMammalianPopulations

PhD position (4 years) to study the significance of epigenetic processes in natural populations (University of Jyväskylä, Finland)

TITLE: Coping with uncertainty: the role of genotype versus epigenotype to overcome environmental challenges

This PhD project aims to study the significance of epigenetic processes as well as genetic variation in natural populations. The ultimate aim of our group is to provide a novel and multidisciplinary approach for a classic question: what maintains phenotypic and genetic variation in wild populations? We aim to investigate genetic polymorphism as a force driving the divergence of behavioural and life-history traits, and to test the hypothesis that epigenetic mechanisms contribute to ecologically and evolutionarily relevant behavioural variation.

We are looking for a motivated postgraduate who has strong interest in evolutionary questions and is ready to work hard to reach his/her goals. The student will join an international group of motivated people that has an excellent know-how to conduct studies on experimental evolution both in the laboratory and in the field. The background of the student can vary from evolutionary ecology to molecular biology, as the project can be planned to include different amounts of work in DNA-lab versus experimental and empirical field work.

Interested in studying these questions with us? Please contact [esa.m.koskela\(AT\)jyu.fi](mailto:esa.m.koskela(AT)jyu.fi) and ask more! NB! The

deadline for applications is at 4:15 pm (Finnish time) on 22 November 2013.

Application is exclusively through the online procedure available at: www.jyu.fi/science/en/applicationformphdstudents and should be accompanied with updated CV, a letter of motivation or research plan, and contact details of two references.

For more information see: <https://www.jyu.fi/bioenv/en/news/phd-student-positions> and <http://users.jyu.fi/~emk/PhD.Position/> Esa Koskela <http://users.jyu.fi/~emk/esa.m.koskela@jyu.fi>

ULisbon 11 Genomics

Advanced Training / PhD program

"Exceptionally strong PhD program with essentially no weaknesses"

(Overall comment from the Evaluation Panel)

Applications are now open!

(until 4 Dec 24:00 GMT)

*1. **BioSys PhD programme** < http://biofig.fc.ul.pt/training-phd-programme#_BioSys_PhD_programme >

*2. **Academic Courses** < http://biofig.fc.ul.pt/training-phd-programme#_Academic_Courses >

*3. **Who can apply** < http://biofig.fc.ul.pt/training-phd-programme#_Who_can_apply >

*4. **How to apply** < http://biofig.fc.ul.pt/training-phd-programme#_How_to_Apply >

*5. **Projects in the 2014 edition** < http://biofig.fc.ul.pt/training-phd-programme#_Projects_in_the >

*6. **Deadline for Applications** < http://biofig.fc.ul.pt/training-phd-programme#_Deadline_for_Applications >

*7. **FAQs** < http://biofig.fc.ul.pt/training-phd-programme#_FAQs >*

*8. **Contact** < http://biofig.fc.ul.pt/training-phd-programme#_Contact >*

1. **BioSys PhD programme**

The PhD Program **BioSys** Biological Systems, Functional & Integrative Genomics, funded by the FCT PhD Programmes with 11 PhD scholarships - 5 na-

tional and 6 mixed (international),*for each edition* (for a total of 4 editions).

Hosted by BioFIG < <http://biofig.fc.ul.pt/> > (Center for Biodiversity, Functional & Integrative Genomics) at the Faculty of Sciences < <http://www.fc.ul.pt/en/node/> > of the University of Lisboa < <http://www.ulisboa.pt/> > (Portugal), **BioSys** cooperates across different disciplines and has a very high degree of internationalization.

BioSys is shaped to train young researchers to make the bridge from biology to computational approaches and solve problems of a new and interdisciplinary nature by applying integrative functional genomics and innovative research approaches.

BioSys was assessed with top scores on all criteria under evaluation.

2. **Academic Courses**

The program offers a post-graduate training during the first semester (academic courses) involving international faculty, with the following 3 ½ years devoted to research in either national or international laboratories. (For the detailed course programme please download "**BioSys_Programme**")

The programme will start with the academic courses in mid-January 2014.

3. **Who can apply**

As this is an interdisciplinary course, the programme is open to candidates holding an MSc degree in Biochemistry, Biology, Computer Science, Physics, Applied Mathematics and Engineering. Candidates from non-Biological areas are thus strongly encouraged to apply.

Top students are encouraged to enrol and applicants with previous research experience and laboratory skills will be favoured.

Highly qualified students of all nationalities may apply for **BioSys PhD programme**! (For more details download "**BioSys_Call**")

Candidates should demonstrate their fluency (in writing, speaking and reading) in English.

Applicants should have an interest in establishing innovative techniques and enjoy working in an international stimulating research environment.

The MSc degree will be required from candidates applying from countries within the Bologna agreement, or those with similar undergraduate programs (3-year BSc programmes). MSc degree must be held until 31 December 2013.

Applicants who received their BSs 5-year degree prior

to the Bologna agreement or those from a country with a 4- or 5-year University undergraduate (BSc) degree are normally also eligible but should contact the office of the PhD program first (biosysinfo@fc.ul.pt).

§A minimum admission grade of 14/20 (for the undergraduate degree) and 16/20 for the MSc degree are required. However, exceptional students with proven research experience (e.g., publications) but lower grades may also apply.

Candidates should be available for a face to face interview (or via Skype, if abroad).

4.How to Apply

The application process includes the following documents:

§*Application form* (please download the form at the page bottom);

§Motivation letter;

§References from at least two previous supervisors or professors well acquainted with the student;

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UMainz SocialInsectEvolution

PhD position for 3 years at the University of Mainz

The (epi-) genetic basis of division of labor in social insects

Division of labor is key to the ecological success of insect societies and fundamental to their social organization. In most social insects, behavioral and morphological castes are not genetically determined, but develop through phenotypic plasticity. Division of labor becomes more pronounced in larger colonies both within and between species. Moreover, behavior and task allocation typically changes in workers with age, a phenomenon known as polyethism.

This project aims at a deeper understanding of the evolution and ontogeny of division of labor in ants. We are interested in the identity, regulation and selection of genes, whose differential expression are important for the division of labor in workers. We will analyze

how behavioral performance, epigenetic signature and gene expression patterns change over a workers' life and which factors other than age influence worker behavior, such as morphology or experience. Our model species of the genus *Temnothorax* are characterized by small colonies, monomorphic, long-lived workers with a clear division of labor into different behavioral castes.

We are looking for an excellent, highly motivated and enthusiastic PhD student with a strong background in evolutionary biology. Candidates should be interested in combining behavioral experiments, molecular lab work (RNA-seq, qPCR, RNAi) and bioinformatic data analysis. Previous experience in one or more of these fields is desirable.

The PhD position will be part of GeneRED (Gene Regulation in Evolution and Development), a joint research initiative of the Institute of Molecular Biology and the Faculty of Biology of Mainz University (www.imb.de/-GeneRED). Candidates will profit from an established international PhD Programme (www.imb.de/PhD), including courses and from close interactions with various research groups

The deadline for application is November 25th 2013, position will start in March 2014. Detailed information on the application process can be found on the homepage of the international PhD Programm (<https://www.imb-mainz.de/students/international-phd-programme/applyipp/>). For application related questions please contact the IPP coordinator, Dr. Elmar Uherek (PhD@imb-mainz.de). For project-related questions contact Prof Dr. Susanne Foitzik (foitzik@uni-mainz.de) or Dr. Barbara Feldmeyer (feldmeyer@uni-mainz.de).

Prof. Dr. Susanne Foitzik Evolutionsbiologie Institut für Zoologie Johannes Gutenberg Universität Mainz Johannes von Müller Weg 6 D-55099 Mainz Germany

Tel: +49 (0) 6131 39 27 840 Fax: +49 (0)6131 39 27 850 Email: foitzik@uni-mainz.de

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

UManchester EvolutionPopStructure

We are currently accepting applications for a competitively funded four-year BBSRC DTP studentship in the Faculty of Life Sciences, University of Manchester.

The evolution of population structure and sexually selected traits in vertebrates

Sexually selected traits, including size dimorphism, testes size, coloration and ornamentation, are widespread in animals. Some of these traits have well-recognised associations with mating systems across animals: for example, large testes and high levels of sexual size dimorphism are more common among polygynous breeders than monogamous ones. However, the underlying drivers of, and evolutionary pathways leading to, mating systems are still debated. This project will use cutting edge phylogenetic tools to explore the evolution of ecology, mating systems and sexually selected traits across vertebrate groups.

The supervisory team includes:

Susanne Shultz Susanne.shultz@manchester.ac.uk
<http://www.ls.manchester.ac.uk/people/-profile/?personid=25440> John Fitzpatrick
John.fitzpatrick@manchester.ac.uk <http://www.manchester.ac.uk/research/john.fitzpatrick/>
 Magnus Rattray Magnus.rattray@manchester.ac.uk

Please contact Susanne or John for further information about the project and the application procedure. <http://www.ls.manchester.ac.uk/-phdprogrammes/howtoapply/> Susanne Shultz
 <susanne.shultz@manchester.ac.uk>

UMassachusetts Lowell Rotifer Evolution

A graduate student at the Ph.D. level is sought to work with Dr. Rick Hochberg in the Department of Biology at the University of Massachusetts Lowell. The successful applicant will develop a dissertation on the evolutionary morphology of gnesiotrochan rotifers.

The NSF-funded research is focused on the systematics and evolution of a clade (superorder) of Rotifera called the Gnesiotrocha. Gnesiotrochans are mainly freshwater rotifers that are found in planktonic, periphytic, benthic, and sessile habitats. Most are solitary, but some form colonies ranging from a few to 100s of individuals. Particular research topics on this group of rotifers may include (but are not limited to) the following: 1) evolution of coloniality and/or sessility (chemistry, development and evolution of protective secretions); 2) embryonic/ontogenetic development of organ systems in larviparous species; and 3) functional morphology of

feeding specializations in sessile species. Depending on the research topic, the student will be expected to apply advanced microscopical and/or molecular techniques.

Applicants for this position should have a degree in biology or similar field (M.S. preferred), a strong background and interest in invertebrate zoology, and some experience in microscopy (e.g., DIC, fluorescence, CLSM, SEM, TEM). Experience in molecular biology is advantageous but not necessary. The applicant will apply to the Marine Science and Technology program of the University of Massachusetts system and must meet their admission requirements for the Ph.D. degree: <http://www.uml.edu/Catalog/-Graduate/sciences/Marine/Default.aspx> Prior to submitting a formal application, the student must contact Dr. Rick Hochberg (rick.hochberg@uml.edu) to determine their eligibility for the position, after which, he will make a recommendation for the application.

The formal application must include: 1. Application Form 2. Three letters of recommendation from those familiar with the applicant's academic and/or work experience are required. 3. Official transcripts of all undergraduate and graduate coursework. 4. The General Graduate Record Examination (GREs) scores. Typically, for the GREs, students should have a combined score of 300 or greater (150 quantitative, 150 verbal). 5. A statement of interest and intent is also requested. The statement of interest should provide reviewers an indication of the motivation of the student for pursuing graduate work. The statement of intent should describe how graduate training would address the students career goals.

Anticipated start date is August 2014 but can be made sooner depending on the application process (later is undesirable). The student will receive 2-3 years of Research Assistantship (RA) stipend and 2-3 years of Teaching Assistantship (TA) stipend. The anticipated stipend (RA and TA) is as follows: \$13,800 (1st year), \$15,680 (2nd year), and \$17,005 (remaining years). Summer salary is also available. Tuition and fees are waived for RA and TA positions. Travel support to national conferences is provided.

Dr. Rick Hochberg Associate Professor of Biology Graduate Coordinator for Biological Sciences University of Massachusetts Lowell 1 University Ave., Lowell MA 01854 Ph: 01.978.934.2885 Fx: 01.978.934.3044 Website: <http://faculty.uml.edu/-rhochberg/hochberglab/> "Hochberg, Rick"
 <Rick.Hochberg@uml.edu>

UMinnesota PlantFungiCoevolution

The Bushley lab in the Department of Plant Biology at The University of Minnesota-Twin Cities will have an opening for a graduate student starting in Fall 2014.

Major projects in the lab focus on how fungal secondary metabolites shapes the interaction of fungi with plants and other organisms. Using a combination of next generation sequencing, natural products chemistry, molecular genetics, and metabolomics, we examine the evolution, diversity, and functions of fungal secondary metabolites, particularly nonribosomal peptide synthetases (NRPSs) and polyketide synthetases (PKSs). Current research is focused on population genomic analyses and fine-scale evolution of NRPS secondary metabolites among strains of the beetle pathogen *Tolypocladium inflatum*. Future research projects include 1) a comparative genomic and transcriptomic approach to identify genes, secondary metabolites, and regulatory networks that allow fungi in the genera *Fusarium* and *Beauveria* to interact with distinct hosts (insects, plants, and other fungi), and 3) examining the roles of root and leaf endophytic fungi in mediating resistance to nematodes and other insect pests.

The Bushley lab is a diverse, interdisciplinary, and stimulating research environment that values diverse ethnic, cultural, and gender backgrounds.

The University of Minnesota-College is home to a vibrant academic community with strong expertise in mycology, genetics, host-microbe interactions, and natural products chemistry. The university recently hired 4 new faculty in mycology, adding additional expertise to an already strong program. Students will have the opportunity to interact with other mycology labs [Kennedy, May, Figueroa, Bates, Shilling, and Kistler] as well as strong programs in plant and microbial biology at the University of Minnesota.

Students can apply through either The Department of Plant Biology or The Department of Ecology, Evolution, and Behavior which both offer competitive stipends, tuition waivers, and health benefits for full-time graduate students. Applications should be submitted by December 2, 2013 for Fall 2014 entry.

<http://www.cbs.umn.edu/plantbio/gradprog/-prospective> <http://www.cbs.umn.edu/eeb/graduate/>

applying-eeb Prospective students are expected to have a passion for fungi and interests in evolutionary biology, comparative genomics, and/or natural products chemistry. Research experience/interest in molecular biology, next-generation sequencing, and computational biology are a plus.

Please see the lab website for more information:

<http://www.cbs.umn.edu/plantbio/faculty/-kathrynbushley> Contact Dr. Kathryn Bushley (kbushley@umn.edu). Please send a CV, a brief outline of your research interests and goals, and contact information for references.

Kathryn E. Bushley Postdoctoral Researcher 2082 Cordley Hall Department of Botany and Plant Pathology Oregon State University Corvallis, OR 97331 office: (541) 737-5284 cell: (541) 908-0116

“Kathryn E. Bushley”
<bushleyk@science.oregonstate.edu>

UMontana EvolutionaryGenetics

The Good lab at the University of Montana in Missoula is looking to recruit Ph.D. students interested in evolutionary genetics.

Current research projects in the lab are focused on the genetic basis of reproductive isolation, molecular evolution, hybridization in natural populations, and adaptation to seasonally changing environments. These topics are addressed using diverse approaches including population genomics, transcriptomics, and quantitative genetics. Most lab projects will involve the generation and analysis of large-scale genomic datasets, and so candidates with strong interests in genomics are encouraged to apply.

The University of Montana is home to a strong collection of faculty researching ecology and evolution. The Division of Biological Sciences hosts an excellent graduate program in Organismal Biology and Ecology (OBE) with an emphasis on interdisciplinary training in evolution, genetics, ecology, physiology, and behavior. Missoula is a great college town in the heart of the Northern Rocky Mountains.

For more information on the Good lab please visit the lab website:

<http://good-lab.dbs.umt.edu> Interested students are encouraged to email Dr. Good. Please include a brief

description of your research interests and a CV in your email. Note that applications for Fall 2014 admission to the OBE program must be submitted by January 10th.

jeffrey.good@mso.umt.edu

UMontreal LandscapeGenomics

*PhD Position in integrated landscape genomics in Montreal**

I am currently seeking a motivated PhD student to undertake a research project on simulation modelling of landscape genomic dynamics of the mountain pine beetle (*Dendroctonus ponderosae*) outbreak system.

The successful candidate will be part of a new multi-institutional and multi-disciplinary national research network (TRIANet) whose goal is to examine the causes and consequences of further eastward spread of the current mountain pine beetle epidemic in western North America. More information on the TRIANet project can be found here: <http://www.thetriaproject.ca/> I am specifically looking for a numerically-inclined student with a background in ecology and/or population genetics and experience and interest in simulation modelling, programming, and statistics. Skills in R, Python, or Matlab are desirable. Strong verbal, written, and quantitative skills as well as an excellent academic record are required. Full funding is available to support the successful candidate for four years in addition to a limited travel budget. Expected start date is September 2014. The Université de Montréal is a French language institution where graduate work may be undertaken in English or French. Applicants must meet the entrance requirements for the Université de Montréal, Département de sciences biologiques.

To apply: Please send: 1) a cover letter, 2) a current CV, 3) unofficial transcripts, and 4) contact information for three references to:patrick.ma.james**at**umontreal.ca. To ensure full consideration please forward your application materials before January 31st, 2014

Please note that only those selected for an interview (Skype or telephone) will be contacted. Preference will be given to Canadian citizens and permanent residents.

Patrick M. A. James Professeur Adjoint / Assistant Professor Département de sciences biologiques Université de Montréal C.P. 6128, succursale Centre-ville

Montréal, QC H3C 3J7 CANADA

w1. <https://sites.google.com/site/patrickmajames/>
 w2. <http://www.cef-cfr.ca/index.php?n=-Membres.PatrickJames> w3. <http://qcbs.ca/members/main-researchers/?profile=115>
 patrick.ma.james@gmail.com

UNebraska EvolutionaryGenomics

Graduate positions in Evolutionary Genetics and Genomics University of Nebraska

The School of Biological Sciences at the University of Nebraska has a newly expanded evolutionary genetics group, and we are seeking highly motivated students to join our graduate program in Fall 2014. Our group is especially strong in the areas of functional evolutionary genetics and genomics.

Faculty doing research in evolutionary genetics and genomics at UNL include:

Lawrence Harshman (<http://biosci.unl.edu/lawrence-harshman>) Colin Meiklejohn (<http://biosci.unl.edu/-colin-meiklejohn>) Kristi Montooth (<http://biosci.unl.edu/kristi-montooth>) Etsuko Moriyama (<http://bioinfolab.unl.edu/emlab/index.html>) Jeffrey Mower (<http://mowerlab.unl.edu/>) Jay F. Storz (<http://storzlab.unl.edu/>) Anthony J. Zera (<http://biosci-labs.unl.edu/zera/index.html>)

We offer generous graduate student support, an extremely collegial and interactive environment for doing science, excellent biotech and computational facilities, and access to the Cedar Point Biological Station. Lincoln is a great midwestern college town with a high quality of life, a thriving arts scene, and over 130 miles of bike trails (<http://lincoln.ne.gov/city/parks/-parksfacilities/trails/>).

For more information about the department, see: <http://biosci.unl.edu/> For a full listing of all faculty in the School of Biological Sciences, see: <http://biosci.unl.edu/current-faculty> Interested students are encouraged to contact faculty directly with a letter of interest and CV. Deadline for applications is 15 December. For more information, see: <http://biosci.unl.edu/-graduate> Jay Storz <jstorz2@unl.edu>

UNottingham SnailSpeciation

Funding is available for a four year BBSRC DTP PhD studentship (deadline 5th January), to be awarded on a competitive basis within the University of Nottingham, to investigate the speciation of snails using next generation DNA sequencing methods

Speciation on a snail's scale

Snails and slugs are a major crop pest, with a few introduced species causing massive worldwide problems. They are difficult to identify, and part of the second most species-rich animal group - yet we have no good idea of how this biodiversity has come about. This project will use next generation sequencing methods to investigate the speciation of snails, especially with respect to characters under natural and artificial selection (e.g. shell colour and banding or molluscicide resistance), and including methods that may help identify cryptic species. Although the precise nature of the project will be determined by the state of play when the project begins and the interests of the student, I envisage that he/she will use mapping and expression methods to home in on the genes in question. He/she may also develop new species/models to study (possibly involving fieldwork in Europe or Asia), enabling deeper comparative analyses. The student will receive training in standard molecular lab methods, next generation sequencing and bioinformatic methods.

Representative publications from existing students

Richards, PM, Liu, MM, Lowe, N, Davey, JW, Blaxter, ML and Davison, A (2013) RAD-Seq derived markers flank the shell colour and banding loci of the *Cepaea nemoralis* supergene. *Molecular Ecology* 22: 3077-3089. <http://onlinelibrary.wiley.com/doi/10.1111/mec.12262/full> Grindon, AJ and Davison, A (2013). Irish *Cepaea nemoralis* land snails have a cryptic Franco-Iberian origin that is most easily explained by the movements of Mesolithic humans. *PLoS One* 8, e65792. <http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0065792> Applicants should have, or expect to receive, a good degree in a relevant subject, and an interest and enthusiasm for evolution. In the first instance, prospective students should send a CV and an indication of general area of interest to angus.davison@nottingham.ac.uk; see also angusdavison.org

Funding details:

Funding is available for four years from Autumn 2014. A full award would be fees plus an annual stipend.

Eligibility:

Eligibility for full funding is restricted to UK residents (fees and stipend). EU students are eligible for fees only awards, unless the applicants fulfil the residency criteria for a full award. To be eligible applicants must have (or be expected to achieve) a first or upper second class UK honours degree, or the equivalent qualifications gained outside the UK and/or a postgraduate Masters degree in a relevant subject. For full eligibility criteria visit: http://www.bbsrc.ac.uk/web/FILES/Guidelines/studentship_eligibility.pdf How to apply:

Applicants should go to www.nottingham.ac.uk/-bbdtp to download the application and reference forms. Note that an important part of this BBSRC DTP scheme is a lab rotation during the first year. A full list of the possible projects is here, <http://www.nottingham.ac.uk/graduateschool/-doctoral-training-centres/bbsrc-doctoral-training-programme-in-biosciences/prospective-students/-available-projects/available-projects-new.aspx>

Dr. Angus Davison Reader in Evolutionary Genetics School of Life Sciences Life Sciences Building University Park University of Nottingham NG7 2RD

0115 8230322 angus.davison@nottingham.ac.uk
www.angusdavison.org Angus.Davison@nottingham.ac.uk

UOslo PlantBarcoding

Header: PhD Plant barcoding - University of Oslo

We are looking for an excellent and enthusiastic student to work with us on this exciting project. The application deadline is nearing, and we welcome all good applications for review.

Natural History Museum - University of Oslo PhD Research Fellowship in Botany A 3 year PhD position (SKO 1017) is available at the Natural History Museum (NHM), University of Oslo. The position is a fully funded PhD fellowship (Early Stage Researcher) under an EU FP7 Marie Curie Initial Training Network (ITN), entitled Phylogenetic Exploration of Medicinal Plant Diversity, MedPlant (www.MedPlant.eu).

Project Description:

The trade of plant roots as traditional medicine is an important source of income for many people around the world. Destructive harvesting practices threaten the existence of some plant species. Harvesters of medicinal roots identify the collected species according to their own ethnoclassifications, but once the dried or powdered roots enter the chain of commercialization, accurate identification becomes more challenging. Species substitution and adulteration introduce both safety and efficacy concerns, but also reflect changes in availability that impact subsistence harvesters of wild-crafted medicinals. Molecular identification as a method is a powerful tool for root product identification, but is limited by the extent of the reference libraries and unsuitable for species of hybrid origin.

This project will investigate substitution and adulteration of complexes of medicinal roots traded in the markets of Southern Morocco. The objectives of the project will be: a) to develop methods for accurate species identification, in particular of complexes of species of possible hybrid origin (i.e. Anacyclus, Asteraceae; Silene and Corrigiola, Caryophyllaceae), using a combination of NGS whole genome sequencing and specific target-enrichment; b) to identify the drivers of substitution and adulteration, be that increasing demand, increasing value or decreasing populations, using fieldwork focused on collection of medicinal root products and herbarium vouchers, interviews with harvesters of medicinal plants, and market surveys of product diversity and herbal trade.

Job Description

Your key tasks as a PhD fellow are:

Manage and carry through your research project
 Take PhD courses within the MedPlant network
 Write scientific articles and your PhD thesis
 Participate in international congresses and MedPlant network meetings
 Stay at a research institution abroad for a few months
 Teach and disseminate your research
 Key criteria for the assessment of candidates

A MSc degree or equivalent in a relevant field is required. A strong academic record and training in molecular species identification, quantitative ethnobotany, and/or systematics are preferable. The project will require an independent and dedicated person, proficient in both written and spoken English. Good competences in French and/or Arabic will be considered as a plus. She/he should be able to work well as part of a team but also independently; be flexible and willing to travel for field and labwork; and have excellent communication and reporting skills. In filling this position

UiO aims to recruit the person who, in the combined evaluation of competence, skills and documented qualifications, is judged most suitable to carry out and develop the work-in-hand and to contribute to a positive development of MedPlant and NHM.

Primary supervisor is Dr. Anneleen Kool, Natural History Museum, University of Oslo. Co-supervisors are Dr. Hugo de Boer, Natural History Museum, University of Oslo, and Dr. Gary Martin, Global Diversity Foundation, Morocco.

The PhD candidate will receive part of the training in market ethnobotany during a flexible research stay totalling roughly 4 months with the Global Diversity Foundation, Morocco.

The successful candidate will participate in a Marie Curie international training network and will work in a highly interactive international environment with other Marie-Curie PhD students, researchers, authorities, NGOs and industry.

We offer

An exciting Europe-wide network of fellow MedPlant PhD students, postdocs, and their supervisors with whom you will collaborate during courses, summer schools, and other training activities. Salary based on salary level 50-55 (NOK 421 100 - 457 700 per year) A stimulating and friendly working environment
 Membership in the Norwegian Public Service Pension Fund, which provides attractive welfare benefits
 Marie Curie ITN requirements and eligibility

At the time of recruitment, it is a requirement that the PhD candidates has not been awarded a doctorate degree and is in the first 4 years (full-time equivalent) of his or her research career. Furthermore, at the time of selection by the host organization, the candidate must not have resided or carried out his or her main activity (work, studies, etc.) in

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UOtago EvolutionaryBiol

GRADUATE OPPORTUNITIES IN EVOLUTIONARY BIOLOGY AT OTAGO

The Department of Zoology at the University of Otago offers a range of research in evolutionary biology. Most of our faculty also contribute to interdepartmental programs in Ecology and Genetics.

We particularly invite applications from high-quality motivated students to join our PhD program in Zoology. Scholarships (competitive), research support, travel/conference support and demonstrating/teaching assistant positions are available for qualified candidates. Applications can be made at any time.

Travis Ingram Evolutionary Ecology <http://www.otago.ac.nz/zoology/staff/ingram.html>

Ian Jamieson Conservation Genetics <http://www.otago.ac.nz/Zoology/staff/otago008925.html>

Shinichi Nakagawa Behavioral Ecology <http://www.otago.ac.nz/Zoology/staff/otago008929.html>

Robert Poulin Evolutionary Parasitology <http://www.otago.ac.nz/Zoology/staff/otago008915.html>

Bruce Robertson Molecular Ecology <http://www.otago.ac.nz/Zoology/staff/otago008933.html>

Hamish Spencer Population Genetics <http://www.otago.ac.nz/Zoology/staff/spencer.html>

Graham Wallis Evolutionary Genetics <http://www.otago.ac.nz/Zoology/staff/otago008937.html>

Jonathan Waters Phylogeography <http://www.otago.ac.nz/Zoology/staff/otago008938.html>

Possible projects include:

Adaptive molecular evolution of a zona-pellucida domain gene in galaxiid fishes Conservation genetics of the endangered black-fronted tern Evolutionary consequences of freshwater fish introductions Genetics of hybridization and hybrid zones in NZ galaxiid fishes Phylogeography and conservation management of the kaka Nestor meridionalis Population-genetic models of epigenetic systems (including genomic imprinting) Population-genetic models for the maintenance of genetic variation Using genetics to inform mammalian predator control in the Southern Alps of New Zealand

More information on the application process can be found at: <http://www.otago.ac.nz/international/postgraduate/otago002221.html#1> < <http://www.otago.ac.nz/international/postgraduate/index.html> >

More information on support for international students can be found at: <http://www.otago.ac.nz/international/studentssupport.html> Graham Wallis office +64 3 479 7984 Department of Zoology fax +64 3 479 7584 University of Otago home +64 3 476 1314 PO Box 56, Dunedin 9054 courier 340 Great King St Aotearoa-New Zealand email g.wallis@otago.ac.nz

Professor in Genetics <http://www.otago.ac.nz/>

[Zoology/staff/otago008937.html](http://www.otago.ac.nz/zoology/staff/otago008937.html)

graham.wallis@otago.ac.nz

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UPoznan EvolutionMHC

Evolutionary Biology Group of Professor Jacek Radwan at Adam Mickiewicz University, Poznan, is looking for a Junior Researcher in a NCN-funded project investigating forces shaping the number of expressed MHC molecules. In particular, the project aims to test, using bank vole as a model species, whether expressing many MHC molecules is associated with the cost of reduced T-cell receptor repertoire. The latter will be assessed using next generation sequencing.

MSc in biology and competence in basic techniques of molecular biology are required. The employment will be for 3.5 years and should result in PhD thesis.

Further information and application details can be obtained from the project leader upon request (jradwan@amu.edu.pl)

j.w.radwan@gmail.com

UReading AphidBiocontrolBacteria

University of Reading PhD Studentship Project Title: Understanding the impact of phylloplane biocontrol agents on insects Supervisor: Dr Robert W. Jackson, Dr Mark Fellowes, Dr Alice Mauchline and Dr Louise Johnson, and industry partners Mr Martin Emmett and Dr Neal Ward

School/Department: School of Biological Sciences (RWJ, MF, LJ) and School of Agriculture, Policy and Development (AM)

Overview: Aphids are a major pest of both agricultural and horticultural crops, causing physical damage and transmitting plant viruses. However, the ever decreasing availability of pesticides, and reliance on sub-optimal parasitoids/predators, means there is a need to innovate alternative approaches to aphid control. We have identified several highly effective aphid killing biocontrol bacteria. We now have a timely opportunity to capitalise on this discovery to manipulate the bacteria

and prove they are safe for use. We wish to determine whether we can evolve improved aphid killing ability in the bacteria to enhance the aphidicidal properties - this is a natural, non-GM approach thus making the subsequent new biocontrol bacteria more suitable for use and complementary to an Integrated Pest Management strategy. Another key aim of this project will be to examine the effects of aphid biocontrol bacteria on insect ecology and behaviour. This will include studying the effects on natural enemies and non-target insects following exposure to aphids treated with lethal and sub-lethal doses of bacteria. We will also examine the likelihood of resistance occurring in the target pest. Taken together, we believe that these experiments, coupled with ongoing research, will set the foundation for future commercialisation of the biocontrol bacteria and provide growers with a new resource for controlling aphids.

The student experience: The student will have a broad range of researchers to meet via research seminars and at postgraduate symposia held at the University. The nature of the project ensures the student will have an interdisciplinary training (i.e. microbiology, entomology, botany, molecular biology). Moreover, with the supervisors having several microbiological and entomological projects running, the student will join a team working on different aspects of microbiology and aphid biology.

Working with industry and impact: An important aspect of this project is for the student to engage with industry stakeholders through attendance of HDC meetings and meeting industry partners. This industrial collaboration will provide the student with an appreciation of the horticultural industry's needs and standards which will inform the research approach. It is thus important the the candidate has excellent communication skills. The student will also look to maximise Impact through talks and presentations at meetings, workshops and conferences; publication of research summaries in industry publications such as HDC Newsletters; publications in research journals; public engagement and outreach activities such as public talks.

Eligibility: Applicants should hold a minimum of a UK Honours Degree at 2:1 level or equivalent in a relevant subject.

Funding Details: Studentship will cover Home/EU Fees and pay the Research Council minimum stipend (£13,590 for 2013/14) for up to 3 years. The studentship will begin in October 2014.

How to apply: To apply for this studentship please submit an application for a PhD in microbe-insect interactions to the University -

see <http://www.reading.ac.uk/graduateschool/prospectivestudents/gs-how-to-apply.aspx> Please quote the reference in the 'Scholarships applied for' box which appears within the Funding Section of your online application.

Application Deadline: Friday December 20th 2013
Further Enquiries: Please contact Dr Robert Jackson (r.w.jackson@reading.ac.uk) or Dr Louise Johnson (L.J.Johnson@Reading.ac.uk)

Louise Janna Johnson <l.j.johnson@reading.ac.uk>

URhodeIsland PathogenComparativeGenomics

The Lane lab (<http://cels.uri.edu/bio/lanelab/>) at the University of Rhode Island invites applicants for graduate students positions in comparative genomics of a pathogenic lifestyle. We're interested in a wide range of eukaryotic systems that include closely-related organisms demonstrating free-living and pathogenic lifestyles. Current areas of focus include Oomycetes, Red Algae, Green Algae and Apicomplexans. More information on these and other projects can be found at <http://cels.uri.edu/bio/lanelab/research.html> Applicants for this position should have, by August 2014, a degree in biology or related field. Familiarity with computer programming will be an asset, but is not required. Some experience with basic laboratory skills in molecular biology, including DNA/RNA extraction, PCR, electrophoresis and DNA sequencing is expected. Interested applicants should contact Dr. Chris Lane (clane@mail.uri.edu) to discuss eligibility and potential projects. Applications are due by January 15th through the URI Graduate School (http://www.uri.edu/gsadmis/gs_apply.html)

The anticipated start date for this position is August 2014. Research Associate (RA) and Teaching Associate (TA) support (including tuition) are available, as are summer salary and conference travel.

Chris Lane Assistant 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/bio/lanelab/>

Chris Lane <clane@mail.uri.edu>

USheffield EvolutionFishJaws

Evolution, Development and Biomechanics of novel fish jaws

This PhD is part of the NERC funded Doctoral Training Partnership \$B!H(BACCE\$B!I(B (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.

A PhD is available in the laboratory of Gareth Fraser, Department of Animal and Plant Sciences at the University of Sheffield and with co-supervisor Nathan Jeffery, Department of Musculoskeletal Biology at the University of Liverpool. The project is also in collaboration with Zerina Johanson, Department of Palaeontology, Natural History Museum, London.

The teeth of fishes and the integrated jaw apparatus are examples of extreme evolutionary modification that have responded to functional and adaptive shifts within the wider community. This novel project aims to identify shifts in biomechanical pressures on adult jaw and tooth type that is linked to changes in the development of the feeding system. Our integrative project surrounds the core question of how development contributes to novel evolutionary changes in trophic adaptation. This project will link biomechanical adaptation of morphology to novel developmental modifications of the jaw apparatus in fishes to ask whether having a novel dentition (e.g. beak-like dentition in pufferfishes) offers an adaptive advantage compared to more standard yet highly efficient dentitions e.g. Piranha. This project will utilize advanced techniques, including biomechanical computer simulations of hard-tissues built from enhanced microCT data. We will use nano-indentation analyses to observe changes of material properties in comparative groups of fishes linked to re-specification of conserved developmental genes in species with novel tooth phenotypes. The candidate will utilise developmental techniques (gene expression and manipulation) to understand how the genetic basis of tooth and jaw development and continuous tooth regeneration impact the evolution and biomechanical function of fish feeding systems.

Please visit the Department of Animal and Plant Sciences, University of Sheffield ACCE DTP website for details of application:

<http://www.sheffield.ac.uk/aps/prospectivepg/-graduate-opportunities/accestudentships> . The closing date for applications is January 20th 2014. For informal inquiries direct emails to Dr. Gareth Fraser: g.fraser@sheffield.ac.uk

Supervisors

Lead Supervisor: *Dr. Gareth Fraser*, Dept. Animal and Plant Sciences, University of Sheffield.

Co-supervisor: *Dr. Nathan Jeffery*, Dept. Musculoskeletal Biology, University of Liverpool.

Project collaborator: *Dr. Zerina Johanson*, Dept. Palaeontology, Natural History Museum.

Gareth J. Fraser, Ph.D Lecturer in Zoology Department of Animal and Plant Sciences Alfred Denny Building University of Sheffield Western Bank Sheffield S10 2TN UK Phone: +44(0)1142224317 Email: g.fraser@sheffield.ac.uk Website: Fraser Lab < <http://www.fraser-lab.net/> > Skype: garethjfraser

Gareth Fraser <g.fraser@sheffield.ac.uk>

USheffield PlantEvolutionaryGenetics

Convergent evolution in aquatic lycopods and angiosperms: did the same genetic toolkits solve similar environmental challenges?

A PhD position in plant evolutionary genetics is available in the Department of Animal and Plant Sciences at the University of Sheffield. The project will be conducted under the supervision of Pascal-Antoine Christin, Colin Osborne and David Beerling from the University of Sheffield, and James Hartwell from the University of Liverpool:

<http://www.shef.ac.uk/aps/staff-and-students/-acadstaff/christin> <http://www.shef.ac.uk/aps/-staff-and-students/acadstaff/osborne> <http://www.shef.ac.uk/aps/staff-and-students/acadstaff/-beerling> <http://www.liv.ac.uk/integrative-biology/-staff/james-hartwell/> Distantly related groups of organisms often converge on the same adaptive solution to an environmental challenge, thereby creating ideal study systems to address fundamental questions concerning the opportunities and constraints that govern evolution. Lycopods and angiosperms that co-occur in British lakes acquired similar growth habits despite evolving independently for more than 400

million years. Moreover, both groups evolved the same specialized mode of photosynthesis (CAM photosynthesis) and the same developmental programme to build leaves equipped with stomatal pores to succeed in terrestrial environments. This PhD project will address the following key question: Did both plant lineages use the same genetic toolkits to evolve these critical ecological adaptations to sub-mergent and emergent lifestyles? The student will address this question using massively parallel direct sequencing techniques and bioinformatic tools. This comparative work will shed new light on the importance of the genomic background for the evolution of adaptive novelties across land plants. The student will integrate into thriving research groups, and the supervisors will provide training in their fields of expertise, including plant evolution, comparative genetics, eco-physiology, and bioinformatics. Applications are invited from candidates with interests in plant evolutionary biology, comparative genetics and/or ecology.

Informal inquiries can be made by email to Pascal-Antoine Christin (p.christin@sheffield.ac.uk).

This PhD 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. Full funding is only available to UK candidates. The closing date for applications is the 20th of January 2014. For details, please visit the University of Sheffield ACCE DTP website:

<http://www.sheffield.ac.uk/aps/prospectivepg/-graduate-opportunities/accestudentships>
p.christin@sheffield.ac.uk

UStAndrews SystemsBiology

PhD Studentship, Network-based Systems Biology Analysis of Metabolic Disease A 4-year PhD studentship in computational systems biology is available at the University of St Andrews.

Understanding the response of metabolic networks to perturbation is highly relevant to human and animal health, for example in amino acid metabolism disorders such as phenylketonuria and lysosomal storage diseases like Niemann Pick disease. Additionally, novel antifungal and antibiotic treatments being developed will disrupt the metabolism of the pathogen without harming the host. Thus, network-based analysis of metabolism

will have a significant impact.

This studentship will apply computational systems biology, bioinformatics, and network analysis to assess the vulnerability of different species to metabolic diseases. You will use data on the interaction between proteins and small organic molecules to decipher metabolic networks, where enzyme-catalysed reactions link together substrates and products to form pathways and cycles. You will work with bioinformatics data to trace to both the variation of networks across different species and also the networks' evolution; you will apply simulations of metabolism's evolution to work backwards in time and suggest plausible evolutionary trajectories. Ultimately, you will develop predictions of perturbations that disrupt metabolic networks, and ones that can be safely applied.

You will be jointly supervised by Dr V Anne Smith (Biology) and Dr John Mitchell (Chemistry). Both groups work in computational systems biology and machine learning, with Dr Smith's research concentrating on network analysis and Dr Mitchell's on enzymes and computational chemistry. For more information on their research please visit: Dr V Anne Smith's research pages: <http://biology.st-andrews.ac.uk/vannesmithlab/> Dr John Mitchell's research pages: <http://chemistry.st-andrews.ac.uk/-staff/jbom/group/> EASTBIO - the BBSRC East of Scotland Bioscience Doctoral Training Partnership - is a partnership between the Universities of Aberdeen, Dundee, Edinburgh and St Andrews; the Scottish Universities Life Sciences Alliance (SULSA); and the Scottish Universities Physics Alliance (SUPA). A fully funded 4-year EASTBIO PhD studentship (fees and stipend at the standard rate) is available from September 2014 for candidates with a strong academic record and that satisfy BBSRC studentship eligibility requirements (see <http://www.eastscotbiotdp.ac.uk/-how-apply> if you are unsure). To apply, please first make an initial informal enquiry, including a covering letter explaining your interest in the studentship and a CV, to vas1@st-andrews.ac.uk.

Formal applications should follow to the University following the procedure available at <http://www.st-andrews.ac.uk/admissions/pg/apply/research/> Complete applications must have been received by the University by 27 January 2014.

John Mitchell <jbom@st-andrews.ac.uk>

UVictoria ComparativeGenomics

John Taylor's lab at the University of Victoria (http://web.uvic.ca/%7Etaylorjs/lab_page.html) seeks a graduate student. Characterizing conserved synteny (or gene colinearity) will be an important component of the funded research. Other comparative genomics projects may be included in this project. The lab is interested in gene family evolution (e.g., opsin genes), comparative genomics at the population level (sticklebacks), and in cancer evolution focusing largely on gene copy number variation. UVic was recently ranked as Canada's best 'comprehensive' university (<http://oncampus.macleans.ca/education/2013/10/-31/2014-university-rankings-comprehensive-category-results/>) and it is close to UBC and SFU, two other top-ranked Canadian universities. We have access to the computational infrastructure of Compute Canada and Westgrid (<https://www.westgrid.ca/>). Please send a short letter, a CV and transcripts. In the letter, briefly describe your training, research experience, and why you'd be interested in studying conserved synteny.

Thanks,

taylorjs@uvic.ca

UWinnipeg BehavEvolEcol

Graduate Student (MSc/PhD) in Animal and Human Behavioural Ecology in the Lingle Lab in the Department of Biology at the University of Winnipeg

In our lab (www.linglelab.org), we use interactions between predator and prey to gain insight into population ecology, social behaviour and, increasingly, mechanisms underlying social vocal communication and species interactions. For the latter topic, we conduct fieldwork with mammals - especially deer - and lab studies with humans to investigate acoustic and (in the upcoming future) neurochemical mechanisms involved in infant cries and caregiver responses across species and the relationship of infant cries to vocal communication taking place in different contexts. Field studies probe adaptive explanations as well as mechanisms to understand

the behaviour and communication of animals in their natural habitats. Opportunities for research on other topics related to predator-prey interactions and aspects of species relationships still exist.

Ideally I would find one graduate student to do a field study (most projects are planned with deer and coyotes at our main field site on the grasslands of southern Alberta; one planned for work with subspecies of deer on the west coast) and another student to work with humans. I am receptive to having a student with a background in animal behaviour work with humans or vice versa. A project will be selected or planned that is appropriate to the interests and background of the strongest candidates. There are research opportunities for Postdoctoral Fellows, but these will depend on funding you bring or that I may obtain. If interested, please contact me to discuss this.

Potential MSc students should have an Honours degree or equivalent (4-year degree plus research experience) in a related field, a strong academic record, and evidence of being able to work independently and being highly motivated and enthusiastic to pursue research in this field. PhD candidates must have a MSc or be willing to pursue the MSc degree first. Fully-funded MSc positions are potentially available to international students and Canadians through Graduate Teaching Assistantships and other scholarships. PhD students would be enrolled at a different university where I supervise them as an Adjunct. Candidates having external funding such as NSERC PGS are preferred.

Why Winnipeg? Despite its reputation for a wintry climate, Winnipeg is considered by many residents to be "Canada's best-kept secret". This mid-sized city is livable and culturally diverse in terms of its people and amenities (outstanding music - both contemporary and classical, other arts, food and myriad winter and summer festivals). Opportunities for enjoying the natural landscape abound with lakes and forests nearby, prairie grasslands to the west and tundra to the north. The University of Winnipeg is a small, rapidly growing university in the heart of downtown and the Department of Biology is situated in the brand new science facility, Richardson College for the Environment.

Interested persons are encouraged to contact Susan Lingle (lingl.uw@gmail.com) to express interest or for more information. Please include a brief description of your research interests and relevant background, reasons for pursuing graduate study, an unofficial transcript and a CV. I will review material as it arrives and may contact you for an interview. Please contact me before January 2014 and note that official applications for Graduate Studies in Bioscience at U Winnipeg are

due 1 February 2014 for entrance in September 2014.

Susan Lingle <lingle.uw@gmail.com>

UWisconsin Madison Evolutionary Genomics

Ph.D. Positions in Evolutionary Genomics

The research group of John Pool at the University of Wisconsin - Madison is seeking one or two Ph.D. students to start in the Fall 2014 academic year.

A brief summary of our research can be found here: <http://www.genetics.wisc.edu/user/338> More information about the lab is at: <http://johnpool.net/> Our work offers the opportunity to study genetic variation at the scale of whole genomes. We also use population genomic data to identify the genetic basis of adaptive phenotypic evolution within the genetics model species, *Drosophila melanogaster*. The Pool lab currently includes four postdoctoral researchers and seven undergraduates. I can offer training in some of the most sought-after scientific skills in modern evolutionary genomics, and I can devote ample time to each student's scientific development.

Interested students should apply (by December 1) to the UW Genetics Ph.D. program: <http://www.genetics.wisc.edu/node/15> Students typically rotate in three labs during their first semester before choosing an advisor. The Genetics program has an especially strong contingent of faculty with evolutionary interests, including:

David Baum <http://www.genetics.wisc.edu/user/14> Karl Broman <http://www.genetics.wisc.edu/user/333> Cameron Currie <http://www.genetics.wisc.edu/user/80> Sean Carroll <http://www.genetics.wisc.edu/user/22> John Doebley <http://www.genetics.wisc.edu/user/28> Bill Engels <http://www.genetics.wisc.edu/user/33> Audrey Gasch <http://www.genetics.wisc.edu/user/37> Chris Hittinger <http://www.genetics.wisc.edu/user/329> Carol Lee <http://www.genetics.wisc.edu/user/56> Laurence Loewe <http://www.genetics.wisc.edu/user/316> Bret Payseur <http://www.genetics.wisc.edu/user/63> Caitlin Pepperell <http://www.genetics.wisc.edu/user/372> Nicole Perna <http://www.genetics.wisc.edu/user/65> John Pool <http://www.genetics.wisc.edu/user/338> Sushmita Roy <http://www.genetics.wisc.edu/user/373> Don Waller <http://www.genetics.wisc.edu/user/74> 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/>

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.

Students with a particular interest in my lab are encouraged to contact me before applying: jpool@wisc.edu

John Pool Assistant Professor Laboratory of Genetics University of Wisconsin-Madison

jpool@wisc.edu

UWisconsin Madison Insect Adaptations

UW-Madison MS and PhD positions on molecular adaptation of invasive insects

Position Description: MS and/or PhD research assistantships are available to assess how invasive insects adapt to novel environments. Insect pests can be viewed as model systems in which to explore fundamental concepts in ecology and evolutionary biology. They are especially promising candidates to study mechanisms of rapid evolution at the genetic level, as many insect pests have shown a remarkable ability to cope with pesticides, novel climatic space, and novel host plants. While there are significant challenges in determining adaptation at the genetic level and in finding ways to forecast future changes, there are strong incentives (ecological, economic and social) to do this research. Students will combine population genomics approaches with field ecology and manipulative experiments to understand the evolutionary mechanisms of adaptation. Training will focus on the use of landscape genomics approaches to relate spatial and temporal variation in the environment to adaptive and neutral genetic variation.

Information on University, Department, Lab, and City: The University of Wisconsin-Madison is one of the ma-

major research universities in the United States. This project will be supported in the Department of Entomology and under the supervision of Dr. Sean Schoville. Madison consistently ranks as one of the best places in the United States to live, work, and study. It is Wisconsin's capital city, with a vibrant population of approximately 230,000 that combines small town charm with a variety of leisure and cultural opportunities.

Stipend/Salary: Current annual stipend levels are \$20,808 per year before taxes, plus tuition remission and health care benefits. Financial support is available for two years. The start date for the project is September 2014.

Qualifications: A BS or BA degree in entomology, biology or a related discipline is required.

We are looking for motivated students interested in pursuing a MS or PhD degree at UW-Madison. Students with an MS degree will be given preference in admissions to the PhD program. The preferred candidate will have prior research experience and have some knowledge of population genetics. Candidates should have interests in entomology, evolutionary ecology, and working in both the field and laboratory. Excellent writing and verbal communication skills are expected, as well as the ability to work collaboratively.

Application Process: Applications will be reviewed upon receipt and review will continue until candidates are chosen. The application deadline is Jan 2, 2014. The University of Wisconsin-Madison is an equal opportunity/affirmative action employer. We promote excellence through diversity and encourage all qualified individuals to apply.

Interested applicants are asked to e-mail the following documents listed below to our Student Services Coordinator Sara Rodock (rodock@wisc.edu) (in ONE PDF file please). Please specify in your letter when you would be available to start.

Required Documents: -The "Entomology; University of Wisconsin-Madison Graduate Application Cover Sheet" which can be found at: http://www.entomology.wisc.edu/sites/default/files/-schoville_coversheet.doc - A well-crafted cover letter outlining research interests, academic and professional backgrounds - Resume/CV - Copies of transcripts (unofficial copies acceptable at this point) - GRE scores if available - Names and contact addresses of three references

Thanks! Sara

Sara (Lorence) Rodock Student Services Coordinator Plant Pathology, Entomology and Forest & Wildlife

Ecology University of Wisconsin-Madison 276 Russell Labs, 1630 Linden Dr Madison WI 53706 P: 608-262-9926 F: 608-262-9922 rodock@wisc.edu

Sara Rodock <rodock@wisc.edu>

UWisconsin Milwaukee MarinePlantEvolution

The Alberto lab at UW-Milwaukee is seeking doctoral students for Fall 2012 with an interest in molecular ecology of kelp (brown macroalgae) forests. Our interest is broad in all areas of population genetics analyses from fine scale spatial genetic structure and demographic inference, to oceanscape genetics and range wide biogeographical analysis of model organisms. Our focus is both on empirical research through the acquisition of population genetics data, using molecular marker techniques, and simulation based hypothesis testing. Our closer collaborators include the Santa Barbara Coastal LTER (<http://sbc.lternet.edu/>) based at UCSB, California, and the Center for Marine Sciences at University of the Algarve, Portugal (<http://www.ccmr.ualg.pt/maree/>). Students interested in developing projects in topics related to seagrass population genetics or the balance between clonal and sexual strategies, focusing marine or freshwater plant model species, are also welcomed to contact me. Please see my website for more information on our team (<http://alberto-lab.blogspot.com/>).

Much of our work involves some form of programming in R, students are expected to be motivated to learn programming. While programming skills are a benefit, they are not required to successful applicants.

UWM has an active group of researchers studying evolutionary genetics and behavior: <https://pantherfile.uwm.edu/rafa/www/BME%20site/-BME%20home.htm>. Students would enroll in the graduate program in the department of biological sciences at UWM (<http://www4.uwm.edu/letsci/-biologicalsciences/grad/gradapp.cfm>). The minimum requirements for admission to the Biology Department include an undergraduate GPA of at least 3.0 and GRE scores (both verbal and quantitative) in the 50 percentile or better. You can find more information from the Graduate School website <http://www.graduateschool.uwm.edu/students/prospective/>. All graduate students at UWM can be supported financially by teaching assistantships (TA) and receive

a stipend, full tuition waiver, and health insurance. TA appointments are usually made at the 50% level, which involves a teaching commitment of 20 hours per week. MS students can expect TA support for up to 3 years and PhD students up to 5 years. You must apply by January 1 to be considered for a TA position. There are also other opportunities for funding, such as University wide fellowships that are generally based on GRE and GPA, which are given to students after they have been enrolled at UWM for one year.

To apply please send me an email including 1) a statement of research interests, 2) a summary of your previous academic and research experiences, and 3) a summary on how your research interests might fit our lab. Finally, please include a CV (with GPA and GRE scores).

Filipe

Filipe Alberto Assistant Professor

Dept. of Biological Sciences University of Wisconsin - Milwaukee 3209 N. Maryland Ave. Milwaukee, WI 53211

URL: <http://alberto-lab.blogspot.com/> Email: albertof@uwm.edu Tel: 414-229-6343

albertof@uwm.edu

UnivStAndrews CommunityGeneticsBehaviour

Graduate Position: A community genetics approach to understanding tri-trophic interactions in agricultural ecosystems.

Supervisors: Dr David Shuker (University of St Andrews) and Dr Ali Karley (James Hutton Institute)

A four-year fully funded PhD studentship is now available in the field of community genetics, behaviour and ecology.

The project will explore how the behaviour of the parasitic wasp *Aphidius ervi* is influenced by the genetics of its host (the potato aphid *Macrosiphum euphorbiae*) and also by the genetics of the aphid's host (the potato *Solanum tuberosum*). The reproductive decisions made by parasitic wasps can influence their success as biological control agents against pests such as aphids. The project will explore the genetic basis of sex allocation and oviposition in *Aphidius ervi*, exploring both within-

and between-species genetic effects. There will also be opportunities to explore the basis of sex determination in this species, and to develop new behavioural or genetic methods for studying sex allocation in multi-trophic systems in the lab and the wild. For further details of the project please visit:

<http://www.findaphd.com/search/-ProjectDetails.aspx?PJID=3D49034&LID=3D1443>

This studentship opportunity will be co-funded by the BBSRC (as part of the EASTBIO Doctoral Training Partnership) and the James Hutton Institute. The position will be filled following a competitive interview process in which the best candidates applying across a range of different projects will be offered studentship positions. Candidates should have (or expect to achieve) a First Class Honours degree and/or an excellent postgraduate qualification in a relevant subject. The project is a collaboration between our lab and Ali Karley at the JHI. For further details please see the findaphd.com advert or drop Dave Shuker an email (david.shuker@st-andrews.ac.uk).

Applications need to be made via the School of Biology's post-grad recruitment website but I strongly recommend getting in touch first (providing an up-to-date CV and also some thoughts on why this project is of interest to you). The application deadline is 27th January 2014.

Dr David M Shuker Senior Lecturer in Behavioural Ecology School of Biology University of St Andrews St Andrews KY16 9TH United Kingdom

Email: david.shuker@st-andrews.ac.uk Tel: +44 1334 463376 Fax: +44 1334 463366 Web: <http://insects.st-andrews.ac.uk> dms14@st-andrews.ac.uk

UtahStateU EvolutionaryGenetics

The Gompert lab at Utah State University (Department of Biology) is recruiting PhD students for Fall 2014. In our research we seek to better understand adaptation, speciation, and the determinants of genetic and phenotypic variation in nature. We work with a variety of organisms and use diverse approaches to investigate these topics. Most projects in the lab involve generating large, genome-scale DNA sequence data and applying existing or new statistical analyses to these data to test alternative hypotheses. You can read more about research in the Gompert lab here, <https://gompertlab.wordpress.com/research/>. We are

looking for students broadly interested in evolutionary genetics, genomics, or computational biology, and students with academic training in biology, statistics, or computer science are encouraged to apply. Potential research topics for these PhD students include (i) fluctuating selection and the maintenance of genetic variation in the wild, (ii) adaptation from standing variation in phytophagous insects, (iii) polygenic adaptation, (iv) hybridization and speciation, (v) the repeatability and predictability of evolution, and (vi) computational analyses of genome sequence variation. This is not an exhaustive list and students interested in alternative, but related research topics are also encouraged to apply. You can learn more about my expectations for graduate students and my mentoring approach here, <https://gompertlab.wordpress.com/join-us/>. Graduate students accepted into the lab are provided financial support through Teaching Assistantships (TAs) or Research Assistantships (RAs). Interested students are also strongly encouraged to apply for graduate research fellowships, such as the National Science Foundation Graduate Research Fellowship. Importantly, students are eligible to apply for this and other fellowships in their final year as undergraduates. Additional funding exists for graduate student research and travel to scientific meetings.

Utah State University (USU) is a first-class research university located in the US Rocky Mountains. The faculty and graduate students at USU are highly interactive and include a great and diverse group of evolutionary biologists. The Gompert lab has ample computational and molecular resources for modern genome sequence analysis. We are also well-equipped for field work and lab or field experiments. Logan is a small town in northern Utah with a strong sense of community. The town is just minutes from great opportunities for outdoor recreation including mountain biking, rock climbing, cross-country and downhill skiing, and back-packing. Logan is also within a few hours of several national parks, major ski resorts, and world famous slickrock mountain biking.

Interested students are encouraged to e-mail me (zach.gompert@usu.edu). Please include a short description of your academic background and research interests and a CV. Prospective students need to submit a pre-application to the Biology Department (<https://www.biology.usu.edu/html/graduate-info/-application-info/preapplication/>), followed by a full application to the University. The full application is due on or before January 15th, 2014. Additional information about applying to the USU graduate program can be found here (<http://www.biology.usu.edu/html/graduate-info/application-info/>). USU and the

Gompert lab are committed to providing equal educational and employment opportunities regardless of race, color, religion, sex, sexual orientation, national origin, socio-economic background, age, disability, or veteran status.

Zach Gompert Assistant Professor

Department of Biology Utah State University
Phone: 435 797-9463 e-mail: zach.gompert@usu.edu
Website: <https://gompertlab.wordpress.com/>
zachariah.gompert@aggiemail.usu.edu

VirginiaTech Evolution

The McGlothlin lab at Virginia Tech is looking for enthusiastic and motivated Ph.D. students to start in fall 2014. Research in the lab focuses on a wide variety of questions in evolutionary genetics and evolutionary ecology. Ongoing research projects in the lab involve comparative quantitative genetics of Anolis lizards, molecular evolution of toxin resistance in garter snakes, and social evolution theory. Students will be strongly encouraged to develop their own ideas and projects, which may either build upon or depart from the lab's current research.

The McGlothlin lab is part of the growing Ecology, Evolution, and Behavior and Integrative Organismal Biology groups in Virginia Tech's Department of Biological Sciences. Outside the department, potential for collaboration and scientific interaction exist in a number of departments across campus, including Entomology, Fish and Wildlife Conservation, Forest Resources and Environmental Conservation, and the Virginia Bioinformatics Institute.

Interested students should contact Dr. Joel McGlothlin (joelmcg@vt.edu), providing a description of your research interests and experience and a CV or resume that includes GPA, GRE scores, and contact information for 3 references.

Funding is available through both teaching and research assistantships, and a number of competitive fellowships are offered by the university. For full consideration, applications to the department should be received by December 31, 2013.

Additional information: McGlothlin lab: <http://www.faculty.biol.vt.edu/mcglotthlin> Graduate program: <http://www.biol.vt.edu/graduates/index.html> Graduate application: <http://www.biology.vt.edu/>

[graduates/how_to_apply/grad_application_information.html](#) Biological Sciences at VT: <http://www.biol.vt.edu/research/index.html> Ecology, Evolution, and Behavior at VT: <http://www.biol.vt.edu/research/index.html>

Joel W. McGlothlin Virginia Tech, Dept. of Biological Sciences 2125 Derring Hall, 1405 Perry St. Blacksburg, VA 24061 <http://www.faculty.biol.vt.edu/mcglathlin>
Email: joelmcg@vt.edu
joelmcg@vt.edu

WSL Birmensdorf EcologicalGenetics

The Swiss Federal Institute for Forest, Snow and Landscape Research WSL is a part of the ETH domain. Approximately 500 people work on the sustainable use and protection of the environment and on the handling of natural hazards. The Research Unit Biodiversity and Conservation Biology studies the diversity of life in its various forms, from genetic diversity to the diversity of species and ecosystems as well as their interactions. Within the interdisciplinary SNF project GeneScale on Landscape genomics in the alpine plant *Arabis alpina*, we are looking for a

PhD student in Ecological Genetics

You will sample material for DNA extraction within replicated alpine study regions in western Switzer-

land and characterize genetic variation on the basis of next-generation re-sequencing data using bioinformatic tools. You will contribute to the regression-based analysis to link high-resolution environmental data with adaptive genomic variation at the individual level, and publish the results in scientific journals together with project partners.

You have a master degree in biology or environmental sciences, preferably related to population or ecological genetics, and experience with next-generation sequencing technologies and data analysis, and great interest in the application of bioinformatic tools. You are fluent in written and spoken English, preferably also German and French, and you adhere to a high standard of independent and exact working style. We further expect a high level of team spirit and flexibility.

Please send your complete application using reference number 806 to Monika Lips, Human Resources WSL. Felix Gugerli will be happy to answer any questions or offer further information (e-mail felix.gugerli@wsl.ch; phone +41 (0)44 739 25 90). We look forward to receive your application.

The quickest way is to apply online: <http://internet1.refline.ch/273855/0341/++publications++/-1/index.html> Felix Gugerli Kuenzle, PhD Senior Scientist / Head “Ecological Genetics” Swiss Federal Research Institute WSL Research Unit Biodiversity & Conservation Biology Zuercherstrasse 111 CH-8903 Birmensdorf

SWITZERLAND

phone: +41-(0)44-739-2590 fax: +41-(0)44-739-2215 http://www.wsl.ch/info/mitarbeitende/gugerli/index_EN felix.gugerli@wsl.ch

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AlbertEinstein NY ComputationalBiology

The Albert Einstein College of Medicine, one of the leading medical schools in New York City, is seeking to fill multiple tenure track faculty positions in the newly formed Department of Systems and Computational Biology. Established in April 2008, the main goal of the new department is to advance our understanding of living systems by developing theoretical, computational and experimental approaches to study complex biological systems.

The College has 750 medical students, 325 graduate students and 360 post-doctoral fellows in training and boasts a strong research faculty covering broad areas of experimental biology, offering outstanding opportunities for collaborative interactions. The 200,000 square foot Center for Genetic and Translational Medicine at Einstein, which opened in late 2007, locates computational, systems and experimental scientists in physical proximity to foster interdisciplinary communication

and collaboration. Highly competitive start-up packages are available.

We seek outstanding scientists with broad experience and demonstrated collaborative interactions with experimental or clinical investigators.

Job Requirements

Candidates should have strength in a physical, mathematical or computational field at the Ph.D. or equivalent level. Experience applying these skills to a biological or biomedical area (demonstrated through publications or support) is also required. Areas of interest include, but are not limited to: Modeling cellular processes, such as signaling, transcriptional regulation and immune response; Pathway analysis; Genetic networks; Functional proteomics and genomics; Evolution of structure and function; Computational neuroscience; Mathematical and computational modeling of complex traits and diseases; QM and dynamic approaches to enzymatic catalysis and drug design.

Applicants should send a letter of interest, C.V., statement of research and teaching interests, and names of three referees, in electronic format to:

Systems and Computational Biology Search Committee

Albert Einstein College of Medicine
Jack and Pearl Resnick Campus
1300 Morris Park Ave. Price Center, Rm. 153
Bronx, New York 10461
E-mail Address: sysbio@einstein.yu.edu
Subject line should be: SCB Faculty Search
Human Resources <mmcder2010@hotmail.com>

Bergen AnimalFacilityTech

Research Technician - Hejzol Group

The Sars Centre has one Animal Facility Research Technician position available until 30 September 2015, with the possibility of extension. The position is with the Hejzol research group and the start date is mid February 2014. The technician will work in the facility under the supervision of the group leader for the culturing of several marine and freshwater invertebrate animals (flatworms, bristle worms, snails, rotifers, bryozoans etc.). The main responsibilities of the position are related to assisting in the daily running of the facility (feeding and breeding animals). Tasks include culturing of algae, brine shrimp and rotifers for feeding animals, operation and maintenance of salt water supply system, periodic field animal collection, and assisting the scientific staff in manipulating animals and embryos (e.g. fixation, microinjections and electroporation). The technician may also participate actively in experiments designed by the researchers exploiting the animals, and in improving the culture system. Some week-end duties will be requested, compensated for according to Uni Research regulations. The working language is English and Norwegian.

Prior experience in maintaining animal facilities, and in algae, marine and/or zooplankton culture is highly desirable. Reliable work habits, cleanliness, and ability to interact productively in close collaboration with scientific personnel are essential requirements. Independence and initiative is expected.

The Sars Centre is a department of Uni Research AS <<http://www.uni.no/>>, affiliated with the University of Bergen <<http://www.uib.no/info/english/>> and a partner of the European Molecular Biology Laboratory (EMBL) <<http://www.embl.de/>>. The Centre's research includes studies of the basic biological processes in marine organisms using functional and comparative

molecular methods. The salary level for Research Technician (code 8411) begins at NOK 320.000 and is negotiable based on qualifications and previous work experience. Uni Research has employee insurance and pension agreements and is an equal opportunity employer.

Further information may be obtained from Andreas Hejzol, Group Leader, andreas.hejzol@sars.uib.no, phone 55 58 43 28.

Written application in English, including a CV, containing all information about education and work experience should be marked 13-Sars_11 and sent to: Sars Centre, HR Consultant, Thormøhlensgt. 55, NO-5008 Bergen, Norway, no later than 22 November 2013. Please note that applications sent by e-mail only will not be considered.

Interviews will be conducted in English in the presence of bilingual English/Norwegian committee members.

http://www.sars.no/jobs/resTech_hejzol13Sars_11.php
Carol.Bruce@sars.uib.no

BrighamYoungU Bioinformatics

<https://yjobs.byu.edu/postings/2527> BYU Bioinformatics Position Announcement

The Department of Biology at Brigham Young University (BYU) invites applications for a continuing faculty status (BYUs equivalent to tenure) track position in the area of bioinformatics. We encourage applicants with research programs in emerging fields of biological informatics (e.g., population genetics, genomics, ecological informatics, phylogenetics, etc.). In addition to our current strengths in bioinformatics (which include genetics of complex traits, computational biology, and next-generation sequence analysis), faculty research strengths in the Biology Department include genetics, evolution, systematics, and ecology. We seek exceptional individuals with a PhD and postdoctoral experience in bioinformatics that complement these department focal areas. The applicant should have a strong background in biology with publications in recognized biological journals. A strong applicant will also provide evidence of capability to develop an externally funded research program and to teach courses in computational biology/bioinformatics and the biology core. Finally, a successful applicant will demonstrate a commitment to the long-term success of the Department of Biology at BYU. The department offers competitive

start-up packages and reduced teaching loads for new faculty. The desired start date for this position is August 2014.

Complete applications will include a cover letter, curriculum vitae, teaching statement, research statement, and a completed BYU employment application form (found at <https://yjobs.byu.edu>). Applicants should provide names and contact information for three references; letters of recommendation will be requested for those candidates that make our short list. The initial review process will begin January 31st, 2014 and continue until the position is filled. Inquiries should be directed to Dr. John S.K. Kauwe, Computational Biology/Bioinformatics Faculty Search, 401 WIDB, Department of Biology, BYU, Provo, UT 84602, USA (or email kauwe@byu.edu<bio@byu.edu>).

Brigham Young University, 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. All faculty are required to abide by the university's honor code and dress and grooming standards. Preference is given to qualified candidates who are members in good standing of the affiliated church, The Church of Jesus Christ of Latter-day Saints. Successful candidates are expected to support and contribute to the academic and religious missions of the university within the context of the principles and doctrine of the affiliated church.

John "Keoni" Kauwe, PhD Departments of Biology, Neuroscience Brigham Young University 675 WIDB Provo, UT 84602 phone: 801-422-2993 fax: 801-422-0090 kauwe@byu.edu <http://kauwelab.byu.edu> Seth Bybee <seth.bybee@gmail.com>

ConcordiaU PlantMolecularEvolution

PLANT MOLECULAR BIOLOGY Home to 27 departments, colleges, schools and institutes, the Faculty of Arts and Science is dedicated to superior teaching and research. It also boasts a strong tradition of service to the community. The Faculty provides a dynamic environment that accents student-centered learning, flexibility, interdisciplinary thinking and research. The Faculty is recognized for innovative research in the sciences, the humanities, and the social sciences.

The Department of Biology invites applications for a tenure track position in any area of Plant Molecular

Biology.

The Biology Department has internationally competitive research and educational programs in cell & molecular biology, ecology, and genomics. Researchers benefit from modern equipment and infrastructure, internal cooperative centres for genomics, microscopy, and mass spectrometry, as well as a facility with a greenhouse and multiple plant growth chambers. The successful candidate will have a PhD and postdoctoral experience and is expected to establish a productive, externally-funded research program, to supervise graduate students, and to teach courses in plant biology and molecular biology.

Applications must consist of a cover letter, a current curriculum vitae, copies of recent publications, a statement of teaching philosophy/interests, a statement of research achievements, and evidence of teaching effectiveness. Candidates must also arrange to have three letters of reference sent directly to:

Dr. Patrick Gulick, Chair, Department of Biology Concordia University 1455 de Maisonneuve Blvd. W. Montreal, QC, H3G 1M8. patrick.gulick@concordia.ca <http://biology.concordia.ca/> Subject to budgetary approval, we anticipate filling this position, normally at the rank of Assistant Professor, for August 1, 2014. Appointments at a more senior level may also be considered. Review of applications will begin immediately and will continue until the position has been filled. All applications should reach departments no later than November 30, 2013. All inquiries about the position should be directed to Dr. Gulick at patrick.gulick@concordia.ca. For additional information, please visit our website at artsandscience.concordia.ca.

All qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents of Canada will be given priority. Concordia University is committed to employment equity.

"Jean-Philippe Lessard, Mr" <jean-philippe.lessard@mcgill.ca>

DesertBotanicalGarden Phoenix PlantSystematics

Research Scientist V Biology of New World Succulents Desert Botanical Garden, Phoenix, Arizona.

Research position at one of the worlds major botanical gardens specializing in desert plants to begin Oct. 1,

2014. Areas of specialization may include any aspect of the biology of New World succulent plants, including taxonomy and systematics, evolutionary biology, ecology, or physiology. Individuals using novel approaches involving molecular genetics techniques are encouraged to apply. The successful applicant will be expected to develop an internationally recognized research program focused on members of the cactus and/or agave families. Responsibilities include conducting original research, seeking extramural funding, and cooperating with other departments in the development of exhibits and educational programs. Ph.D. in plant biology, ecology, or related field required.

The Desert Botanical Garden was established in 1939 with a mission focused on research, education, conservation, and exhibition of desert plants of the world, with special emphasis on the American Southwest (www.dbg.org). The Gardens scientifically documented, living collections of Cactaceae and Agavaceae are taxonomically diverse and among the worlds largest and are designated as National Collections by the North American Plant Collections Consortium (NAPCC) of the American Public Gardens Association (APGA). The institution also maintains a particularly strong herbarium collection of cacti and agaves. The successful applicant will join a strong multidisciplinary team in the Department of Research, Conservation, and Collections (<http://www.dbg.org/research-conservation/-research-conservation-staff>) and will be eligible to obtain adjunct faculty status in the School of Life Sciences, Arizona State University. In addition to living and herbarium collections, facilities include a newly constructed 1200 sq. ft. molecular genetics laboratory, library, and greenhouses.

Send letter of application, C.V., a concise, 1-page description of research approaches and goals, and names and contact information of three references to Ms. Mary Catellier, Director of Human Resources, Desert Botanical Garden, 1201 N. Galvin Pkwy., Phoenix, AZ 85008; e-mail: mcatellier@dbg.org Review of applications will begin January 6, 2014 and applications will be accepted until position is filled. An Equal Opportunity Employer.

Andrew Salywon, Ph.D. Assistant Curator & Research Botanist Desert Botanical Garden Herbarium (DES) 1201 N. Galvin Parkway Phoenix, AZ 85008-3437 480-481-8107

Andrew Salywon <asalywon@dbg.org>

Earlham College 1yr Teaching Evolution

Earlham College: Visiting Assistant Professor of Integrative Biology

Earlham College invites applications for a biologist with teaching and research interests that explicitly bridge ecological/evolutionary/organismal and cell/molecular fields. This is a one-year, renewable up to three year, full-time visiting professor position in the Biology Department. The position begins in August 2014.

The Department seeks an individual who is first and foremost excited about teachingX in lecture, laboratory and research venues X to bright and motivated undergraduates in a nationally ranked department at a small liberal arts college.

Responsibilities

Teaching responsibilities will include contributing to introductory team-taught courses in both ecological/evolutionary/organismal and cell/molecular biology, and upper-level courses in the applicants area of expertise. Applicants who have an expertise in one or more of the following areas are especially attractive: molecular evolution, disease ecology/epidemiology, microbial ecology, applied environmental science, and/or fields that address questions or use methods/tools in both and biology. There are also opportunities for student-faculty collaborative research.

Qualifications

A Ph.D. or equivalent is required; teaching or post-doctoral experience is desirable.

For an expanded description about Earlham College and the Biology Department please visit: <http://www.earlham.edu/biology> To Apply: Arrange for three letters of reference to be emailed (butler@earlham.edu), and please send, as a *single* *pdf*, cover letter, curriculum vitae, and statements of teaching philosophy and research interests (combined statements not to exceed 4 pages) to: butler@earlham.edu.

Review of applications will begin on Dec. 15 and continue until the position is filled.

Earlham College continues to build a community that reflects the gender and racial diversity of the society

at large, and, therefore, we are particularly interested in inviting and encouraging applications from African Americans, other ethnic minorities, and women. Earlham also is eager to solicit applications from members of the Religious Society of Friends (Quakers).

Earlham is an Equal Opportunity Employer.

Chris R. Smith Assistant Professor Department of Biology Earlham College 801 National Road West Richmond, IN 47374 USA tel: 765-983-1377

Chris Smith <crsmith.ant@gmail.com>

EastCarolinaU Bioinformatics

The Department of Biology at East Carolina University, Greenville, NC, the third largest campus in the University of North Carolina system, invites applications for a nine-month tenure-track position at the Assistant Professor level with research interests in Bioinformatics, to begin August 18, 2014. We are looking for a broadly trained biologist with expertise in bioinformatics and computational biology. The successful candidate will possess a research program with comparative or evolutionary components and have experience with large datasets, such as those generated through next-generation sequencing technologies. She/he will be expected to establish a vigorous, well-funded research program, actively engage in undergraduate and graduate classroom teaching in Bioinformatics and related disciplines, mentor students in the M.S. and Ph.D. programs, and engage in university, community, and professional service. Opportunities exist for collaboration within Biology as well as with other departments, including those at the Brody School of Medicine (<http://www.ecu.edu/med/>), and ECU's Center for Biodiversity. Please visit our website at <http://www.ecu.edu/biology> for more information on the department. Appointment at the Associate Professor or Professor level may be considered for a candidate with a well-established record of teaching and research.

Qualifications: A Ph.D. in Bioinformatics, Biology or Biology-related fields with bioinformatics training and at least one year of postdoctoral research experience are required.

Qualifying degrees must be received from appropriately accredited institutions.

Applicants must submit a cover letter, curriculum vitae, statements of research interests and teaching ex-

perience/philosophy online at www.jobs.ecu.edu using the position number 934040 - Tenure Track Faculty in Biology, Bioinformatics.

Candidates should also arrange for three current letters of reference to be e-mailed (in PDF form only, from recommender) to biology@ecu.edu. Official transcript and original hard-copy reference letters are required upon employment.

Inquiries may be directed to Dr. Jinling Huang (huangj@ecu.edu), Search Committee Chair. Review of applications will begin on December 2, 2013 and continue until the position is filled.

East Carolina University is an Equal Opportunity/Affirmative Action Employer.

BALAKRISHNANC@ecu.edu

EastTennesseeStateU TeachingEvolution

Assistant Professor, Department of Biological Sciences East Tennessee State University Johnson City, TN USA

Specialties: Biological Sciences Ph.D., emphasizing post-secondary teaching and instructional methods research.

BIOLOGICAL SCIENCES TENURE TRACK - East Tennessee State University, Department of Biological Sciences invites applications for a tenure-track ASSISTANT PROFESSOR beginning August 15, 2014.

A Ph.D. in any area of biological sciences with evidence of excellence in post-secondary biology teaching, preferably in a large classroom environment, is required. A publication record in post-secondary instructional methods research is also essential for this position. A verifiable ability to work in a team/collaborative environment with skill in managing and coordinating graduate students and undergraduates is expected. Duties include teaching and curriculum development for introductory biology courses, supervisory responsibility for introductory biology lab teaching and revision of the associated lab manuals. The successful applicant will also be expected to develop extramurally funded research in post-secondary life sciences pedagogy. We encourage applicants who will enhance diversity and serve as a role model for a diverse student population.

The Department of Biological Sciences is currently comprised of eighteen faculty engaged in a wide range of

teaching and research and the Department serves approximately 500 majors and over 50 M.S. and Ph.D. students. East Tennessee State University is located in Johnson City, Tennessee, a city of about 65,000 located in the southern Appalachian mountains. The region has a total population of more than 500,000 and combines a low cost of living with amenities found in larger urban areas. ETSU enrolls approximately 15,000 students, and offers more than thirty-six master's degree programs, 18 graduate certificate programs, and thirteen doctoral programs.

Apply to the position at <http://jobs.etsu.edu/-applicants/Central?quickFind=53473> Applicants should provide a cover letter, C.V., statements of teaching philosophy and research interests, official transcripts, and three letters of reference. Questions may be directed to Chair, Biology Education Search Committee, Department of Biological Sciences, East Tennessee State University, Johnson City, TN 37614 or emailed to biologysearch@etsu.edu For more information, refer to our departmental website <http://www.etsu.edu/biology> APPLICATION CLOSING DATE: DECEMBER 5, 2013. ETSU is an AA/EOE. We encourage applications from or information about women and minority candidates.

"McDowell, Timothy D."
<MCDOWELT@mail.etsu.edu>

Finland ResTech EvolutionMammalColouration

Research Technician Fellowship

Reference: Academy of Finland: 21000023311

Main scientific field: Molecular biology, biotechnology

Specific scientific field: Molecular genetics

Summary A Research Technician Fellowship (BI) is now available within the framework of BIODESERTS, Biodiversity of Deserts and Arid Regions, financed by the Finnish Academy of Science foundation. A research technician will work in genetic laboratory on molecular mechanisms of evolution of coloration in mammals. Primarily he/she will develop and optimize techniques previously used in model organisms, in non-model species.

Admission requirements Candidates will be admitted to the competition when demonstrating: (i) a M.Sc. title in Molecular Genetics or closely related fields; (ii) ex-

pertise in molecular biology including developing and optimizing laboratory techniques. Preference will be given to candidates with proven experience in working independently in molecular genetic laboratory, including designing and managing projects, and developing methodology.

Work plan The successful candidate will support project tasks primarily related to the developing and optimizing PCR protocols, designing primers, optimizing and conducting sequencing on non-model organism. It will include: (1) the identification, from literature and available datasets (e.g. mouse genome) of colour candidate genes; (2) designing primers to study colour genes in none model species; (3) describing sequence polymorphism in genes affecting coloration in mammals. The successful candidate is expected to collaborate in writing technical reports and scientific publications, as well as to explore novel approaches and tools related to molecular evolution (e.g. next generation sequencing platform).

Legislation and regulations Law N.º. 40/2004, dated August 18 (Statute of Scientific Research Fellow); Regulation of Advanced Training and Qualification of Human Resources 2010; and as Grant Regulation of ICETA, approved by FCT. [Lei N.º. 40/2004, de 18 de Agosto (Estatuto do Bolseiro de Investigação Científica); Regulamento da Formação Avançada e Qualificação de Recursos Humanos 2010 e conforme Regulamento de Bolsas do ICETA aprovado pela FCT.]

Workplace The work will be carried out at CIBIO - Research Centre for Biodiversity and Genetic Resources, under the scientific supervision of Zbyszek Boratynski (boratyns@jyu.fi).

Grant duration The grant will be awarded for a period of 6 months, starting as soon as candidate is selected. The grant contract may be renewed up to a maximum duration of 18 months. Further extended collaboration (including next generation sequencing techniques) will be considered for candidates interested in pursuing research and academic training at the level of PhD.

Value of monthly maintenance allowance Monthly allowance will be 980 euros, according to the grant regulations of FCT in Portugal (<http://alfa.fct.mctes.pt/-apoios/bolsas/valores>).

Selection methods The ranking of candidates will be performed by a global evaluation based on the CV (40%), the previous experience of the applicant relevant to the project and work-plan (50%), and the motivation of the applicant (10%). Applications should include a CV, preferably accompanied by a motivation letter and copies of all relevant academic certificates.

All documents should be submitted in English. The jury may not award the scholarship if the quality of candidates is lower than desired.

Composition of the Selection Panel Dr Zbyszek Boratynski (Chair, boratyns@jyu.fi), Prof. Tapio Mappes (Vogal), Dr. Rui Miguel Macieira de Faria (Vogal, rui.faria@upf.edu), and Dr José Carlos Brito (Vogal).

Form of advertising/notification of results The final evaluation results will be published and the winning candidate will be notified by e-mail or telephone.

Deadline for application and presentation of applications The application period will be from 1 October to 31 November 2013. Applications must be formalized by sending a letter of application/motivation together with the following documents: Curriculum vitae, degree certificates, and other documents considered relevant.

Contacts Rui Miguel Macieira de Faria (CIBIO): rui.faria@upf.edu Zbyszek Boratynski (CIBIO) boratyns@jyu.fi (due to field work responses might be delayed)

CIBIO Divulgação

FloridaStateU MarineEvolution

Jobs: FloridaStateUniversity. ResearchWithCoastalOrMarineOrganisms

Note that the search described below is very broad. While evolutionary biology is not specifically mentioned, applicants doing relevant evolutionary work in appropriate systems are encouraged to apply.

Faculty Recruitment for a Multidisciplinary Initiative in Coastal and Marine Research

The President and the Provost of Florida State University are pleased to announce a major initiative to develop a multidisciplinary group studying the short- and long-term dynamics of coastal ecosystems, especially with respect to the interconnectivity among biotic and abiotic components of terrestrial and marine environments. This strategic effort seeks to recruit as many as nine tenure-track/tenured faculty, open with respect to rank. Faculty will have academic appointments in either the Department of Earth, Ocean and Atmospheric Science (EOAS) or the Department of Biological Science. Some of the new faculty hires can be based at the FSU Coastal and Marine Laboratory (FSUCML).

Successful candidates are expected to interact synergistically with research programs in departments and interdisciplinary programs across the University, as well as develop new areas of interactions through research and graduate and undergraduate teaching. The sustained pursuit and growth of collaborative, externally-funded research programs are explicit goals of this initiative.

This is a very broad search and we encourage applications from candidates trained in the physical and life sciences who work on subjects related to coastal and marine systems. Areas of interest include, but are not limited to, ecosystem or community ecology, conservation biology, invertebrate/benthic ecology, plant or algal ecology, fisheries biology, marine mammalogy, (bio)geochemistry, geology, climatology, hydrology, shelf circulation processes and biotic/abiotic system modeling.

Successful candidates will be offered highly competitive salaries and start-up packages as well as access to state-of-the-art research space, instrumentation, high performance computing and other facilities. Faculty are expected to integrate into existing coastal and marine ecosystem research in EOAS, Biological Science and the FSUCML, with the potential to interact with the Center for Ocean-Atmospheric Prediction Studies and the Geophysical Fluid Dynamics Institute. Further resources and support are available through existing programs with other institutions, including the Florida Climate Institute, the Deep-C Consortium and the National Estuarine Research Reserve System.

Applicants should provide a letter of application, full curriculum vitae, the names and contact information of three professional references and a two-page narrative describing their research interests that should include a statement as to how the candidate would complement this multidisciplinary effort at Florida State University. Application documents must be combined into a single PDF file and sent electronically to ecosystems.search@fsu.edu. Review of applications and nominations will begin November 15, 2013. Additional information about the programs at FSU and this faculty search can be obtained at http://www.research.fsu.edu/ecosystems_search. Florida State University is committed to the diversity of its faculty, staff, and students, and to sustaining a work and learning environment that is inclusive. Women, minorities, and people with disabilities are encouraged to apply. FSU is an Equal Opportunity/Access/Affirmative Action Employer.

nunderwood@bio.fsu.edu

HarvardMedicalSch ResTech AncientDNA

TITLE Laboratory research technician position in human Ancient DNA

DESCRIPTION

The Reich laboratory at Harvard Medical School seeks a highly motivated researcher for a full-time position in support of the research in an Ancient DNA laboratory with a responsibility for studying DNA from human remains over the last 45,000 years:

Primary responsibilities will be to conduct experiments to meet the research goals of a critical core project of the laboratory. The successful candidate for this position will work under the close supervision of scientists who have developed the relevant protocols.

He/She will receive samples of ancient teeth and bones and store them in a way that minimizes contamination. He/She will drill and crush these artifacts in a clean room environment to release DNA. He/She will conduct experiments to extract DNA and prepare it for sequencing, PCR and solution hybrid capture. He/She will analyze the data to identify the best samples for further analysis.

The candidate will keep a meticulous record of experiments and analyses in a lab book and tracking database and will return unused samples to collaborators.

Training in Sterile Technique is essential for this position. Familiarity with next generation sequencing is also highly desirable.

The successful candidate will also perform other related laboratory tasks as required. The specific focus of each experiment and the type of techniques employed may vary in accordance with shifts in team goals.

This is a two year term position with the possibility of renewal based on available funding.

QUALIFICATIONS

Required qualification: College background and at least two years of related laboratory experience in genetics and molecular biology.

Additional Qualifications: Bachelor's degree preferred. Familiarity with basic laboratory techniques and principles of molecular biology. Familiarity with genetics and PCR. Training in sterile laboratory techniques. Fa-

miliarity with next generation sequencing. Excellent written, documentation and oral communication skills. Computer skills, including familiarity with Microsoft Word and Excel and ideally UNIX. Extremely strong organizational skills.

Further details on the Reich laboratory

http://genetics.med.harvard.edu/reichlab/-Reich_Lab/Welcome.html

Please apply on the Harvard University ASPIRE website:

https://jobs.brassring.com/1033/asp/-tg/cim_jobdetail.asp?partnerID=25240
<https://jobs.brassring.com/1033/asp/-tg/cim_jobdetail.asp?partnerID=25240&siteIDS41&AReq1115BR> &siteIDS41&AReq1115BR

David Reich <reich@genetics.med.harvard.edu>

HarvardU PlantDiversityEvolution

The Department of Organismic and Evolutionary Biology (OEB) and the Harvard University Herbaria (HUH) seek to appoint a tenured-track faculty member in the Department of OEB <http://www.oeb.harvard.edu/> in the field of plant diversity and evolution. We seek an outstanding scientist who will teach both undergraduate and graduate students, and who is engaged in an innovative research program. The successful candidate will also be appointed as curator in the HUH and share responsibilities for the HUH's physical and digital collections. We are especially interested in individuals who undertake field and laboratory research in plant phylogenomics, genetics, development, speciation, and/or biogeography.

The Harvard University Herbaria (HUH; <http://www.huh.harvard.edu>) house one of the largest and most comprehensive collections of dried plant and fungal specimens in the world. These specimens are the key to our knowledge of plants and serve as a permanent reference to the diversity of life on earth. During the last five years, the HUH has embarked on an ambitious plan to enhance its scientific mission through a series of key improvements in its laboratories, bioinformatics and collections infrastructure, and environmental controls. This tenure-track position is part of this broader initiative.

Basic qualifications: Doctorate required by expected

start date.

Additional qualifications: Demonstrated excellence in teaching and research is desired, as is postdoctoral experience.

Special instructions: Please submit the following materials through the ARIeS portal (<http://academicpositions.harvard.edu/postings/5008>): 1. Cover letter 2. Curriculum vita 3. Teaching statement 4. Research statement 5. Names and contact information of 3-5 references 6. 3-5 representative publications

Review of applications will begin on December 15.

Harvard is an Equal Opportunity/Affirmative Action employer. Applications from women and minorities are strongly encouraged.

Contact information: Further information about OEB and HUH are available at www.oeb.harvard.edu and www.huh.harvard.edu.

Contact email: Address questions about the position to fac-search@oeb.harvard.edu.

Christopher Preheim

Academic Programs Coordinator Harvard University
Dept. of Organismic and Evolutionary Biology 617-384-9271

“Preheim, Christopher” <cpreheim@oeb.harvard.edu>

INRA France Plant Structural Variation

CDD in bioinformatics: structural polymorphism analysis from NGS data

Position: CDD. Two years with possible extension up to three years

Start: 01/01/2014

City: Gif-sur-Yvette, France

Laboratory: UMR de Génétique Végétale, INRA-Université Paris Sud-CNRS

Contacts:

Johann Joets. joets@moulon.inra.fr

Description of the position

The LabEx BASC (Biodiversity, Agroecosystems, Society, Climate), a network of 13 laboratories of

the Paris-Saclay Scientific Cluster, is seeking a bioinformatician to analyze Next Generation Sequencing (NGS) data analysis. In the context of a flagship project aiming at understanding and improving the adaptive capacity of agroecosystems it will be critical to establish a link between sequence variation, functional variation, gene/protein expression and phenotypic adaptation. We will gather NGS data in many genotypes of various species, the genomes of which harbor a high level of structural complexity, with copy number variations, insertions-deletions, whole genome and segmental duplications. The successful candidate will be in charge of the detection of polymorphisms including structural variants, of the comparison of multiple and diverse genomes of a same species and of the construction of pan- and core-genomes. These challenging tasks will require bioinformatics developments and implementation of methods for accommodating the high level of repetitiveness of complex genomes. The tools will be integrated into pipelines and made available to end-users through the Galaxy platform. The bioinformatician will therefore also have to provide researchers with advices on their experimental designs in order to ensure compliance of produced datasets with pipelines requirements. He will be hosted by a bioinformatics/informatics team (7 people) (<http://moulon.inra.fr/index.php/fr/equipestransversales/atelier-de-bioinformatique>) which has computational facilities and expertise in NGS data analysis, and will benefit as well from national and international collaborative networks (Aplibio <http://www.renabi.fr/platforms/aplibio/>, Transplant <http://transplantdb.eu>, AMAIZING <http://www.amazing.fr/>).

The position requires strong expertise in script writing (Python/Perl) and pipeline development. Experience with NGS data handling will be greatly appreciated. The applicant will have to demonstrate excellent capacity to work in a team and ability to communicate with researchers.

Funding is available for one year and can be extended to three (monthly salary includes health insurance). Applicants should send a CV and the names of 2 referees willing to provide a letter of recommendation to joets@moulon.inra.fr.

joets@moulon.inra.fr

InstZool London ResTech EvolutionaryBiol

Research Technician Evolutionary Biology

3 year contract Salary £19,504-£22,693 p.a. pro rata, plus London weighting (£3,604 p.a.)

The Institute of Zoology, based at Regent's Park, London, is the research arm of the Zoological Society of London. Imperial College is the number 5 ranked university in the world and the relevant campus is located at St. Mary's Hospital, Paddington

We would like to appoint an experienced Research Technician for 3 years (fixed-term and full-time) to join a research group investigating the evolutionary ecology of chytrid fungi causing global amphibian extinctions. We are funded by the Natural Environment Research Council (NERC) to investigate the patterns and processes that are leading to disease-driven amphibian declines by utilising population genomics, experimental ecology and fieldwork. We are extending on our previous work to assess how evolutionary diversification of amphibian-associated chytridiomycete fungi occurs and the consequences for potential amphibian hosts. The successful candidate will provide laboratory support for the project and be responsible for a) molecular analyses of tissue and swab samples; b) organizing a collection of amphibian-associated chytridiomycete fungi; c) assisting a post-doctoral researcher preparing genomic libraries for sequencing and; d) management of Home Office licensed experiments. Laboratory techniques including fungal DNA extractions, real time PCR and data management are required and experience with amphibian animal work would be advantageous. The position is based at both the Institute of Zoology and Imperial College, St. Mary's campus at Paddington and will be cosupervised by Dr. Trent Garner (IoZ) and Prof. Mat Fisher (Imperial). The successful candidate may be required to complete experimental projects in South Africa.

Candidates should have at least a BSc or equivalent in biological sciences, excellent skills in molecular biology and the ability and willingness to perform Home Office licensed work.

Informal enquiries should be directed to Dr Trent Garner (trent.garner@ioz.ac.uk).

Interested candidates should email a cover letter and

their CV, together with the names and addresses of two academic referees to the Human Resources Department (hr@zsl.org) by 30th November 2013. Short-listed applicants will be invited for interview in mid-December.

Charlotte Cowan <Charlotte.Cowan@zsl.org>

IowaState EvolutionMicrobiomes

Assistant Professor in Ecology and Evolution of Microbiomes Iowa State University (Ames, Iowa)

Iowa State University has launched the Presidential High Impact Hires Initiative to support targeted faculty hiring in areas of strategic importance. A cluster hire of 8 faculty in four colleges within the strategically important area of Translational Health is included among the 29 high-impact hires targeted in this Presidential Initiative.

As part of the initiative, the Department of Ecology, Evolution and Organismal Biology and the College of Liberal Arts and Sciences invites applications for a tenure-track position at the Assistant Professor level in the Ecology and Evolution of Microbiomes to begin fall 2014. We seek a creative individual investigating key questions in the systems biology of microbiomes related to health. Possible research areas may include: ecology and evolution of microbial communities; interactions of microbiomes with host phenotypes, and their change over time; mechanisms underlying the evolution and dynamics of microbiomes; and meta- and functional genomics, metabolomics, or metagenome evolution of microbial communities. Successful candidates will join a dynamic department embedded in a highly integrative and collaborative campus. Applicants must have a Ph.D., are expected to establish a nationally recognized, externally-funded research program, and will contribute skillfully to undergraduate and graduate education.

A full description and application instructions can be found at (www.iastatejobs.com/applicants/-Central?quickFind626). Applicants should submit a cover letter, CV, a research/vision statement that includes how their research program addresses unresolved problems in the field, a teaching statement, and up to three reprints. Consideration of applications will begin December 1, 2013. Submission of three confidential letters of recommendation should be arranged as per instructions in the on-line application system. Please address questions about the position

to microbiomes@iastate.edu. Iowa State University values diversity and is an AA/EEO employer with an NSF ADVANCE program.

abroniko@iastate.edu

JuniataC 1yr TeachingEvolution

The Biology Department at Juniata College, a highly ranked, national liberal arts college of 1,500 students located in the scenic Allegheny Mountains of central Pennsylvania, seeks to fill a one-year visiting professor of Biology to cover sabbatical replacements in the department. The Biology Department has an innovative curriculum, a strong tradition of undergraduate research and a rich history of sending students on to graduate studies and productive careers. Further information about the department can be found at <http://departments.juniata.edu/biology>. Successful candidates will teach introductory laboratory courses, a non-majors human biology course, a plant biology course, evolution, and an upper level course in an area of choice. Applicants with an earned Ph.D. and teaching experience (preferred) should submit 1) a brief statement of teaching experience, philosophy, and interests; 2) a curriculum vitae; 3) undergraduate and graduate academic transcripts; and 4) three letters of recommendation.

It is the policy of Juniata College to conduct background checks. Juniata College will take positive steps to enhance the ethnic and gender diversity on its campus. The College commits itself to this policy not only because of legal obligations, but because it believes that such practices are basic to human dignity.

To apply for this position, please complete our online application: <http://www.juniata.edu/services/hresources/openings.html?action=VIEW&job=301>
Thanks! Norris

Norris Z. Muth, Associate Professor of Biology
muth@juniata.edu

Juniata College 1700 Moore St. Huntingdon, PA 16652
Office Hours Fall 2013: M-Th 10:30 - 11:30am, or by appointment 1054 VonLiebig Center for Science

“Muth, Norris (MUTH)” <MUTH@juniata.edu>

KFBG HongKong PlantConservation

Kadoorie Farm & Botanic Garden Corporation

Notice of Vacant Post: Senior Botanist/Senior Ecologist

JOB SUMMARY The general remit of the post is to implement KFBG's plant and forest conservation and restoration strategy through planning and implementing plant conservation, plant biodiversity assessment and forest restoration projects in Hong Kong and South China. The work will be underpinned by analysing ecological, molecular and environmental data, developing regional to international-level policy recommendations for biodiversity conservation, communicating findings to stakeholders in biodiversity conservation and writing scientific publications and reports relevant to nature conservation. Major projects of the team include permanent forest dynamic plots, forest restoration projects and conservation projects for rare and endangered plants of the region. The job holder will manage a team of three scientific and five to seven ground staff to implement the above duties and to maintain the routine operations of KFBG's native tree nursery and herbarium.

Applicants should have a PhD and Postdoctoral experience in the field of botany or ecology (preferably restoration ecology). Strong communication skills in English and preferably Mandarin (written and oral) and advanced knowledge of statistics are required. Experience in supervising MSc and PhD students would be a plus.

The job holder will primarily be based in Hong Kong, but she/he may also need to work outside Hong Kong to implement projects.

Interested parties should send a detailed CV, expected salary, and a short essay (describing relevant work experience and reasons for interest in the post) to:

Dr. Gunter Fischer, Head of Flora Conservation Department, Kadoorie Farm & Botanic Garden Corporation Lam Kam Road, Tai Po, N.T., Hong Kong Email: gfisher@kfbg.org

gfisher@kfbg.org

McMasterU EvolutionaryGenomics

The Biology Department at McMaster University seeks an outstanding scientist in the field of functional genetics or genomics for a tenure track position at the Assistant Professor level. The ideal candidate will integrate the genetic or molecular basis of biological function across levels of organization (molecular, cellular, physiological, or organismal). Areas of interest include, but are not limited to, evolutionary genetics, bioinformatics, comparative and/or environmental genomics, epigenetics, the genetic basis of quantitative traits, phenotypic plasticity, and stress biology. The ideal applicant will have interests suited to interacting across multiple research groups in the department.

McMaster University is a research-intensive institution in Canada, and faculty in the Biology Department have diverse interests, with particular strengths in molecular genetics, genomics, mathematical and computational biology, microbiology, and environmental physiology (www.biology.mcmaster.ca). We have a vibrant and interactive department with strong links to the Departments of Psychology, Neuroscience and Behaviour, Biochemistry and Biomedical Sciences, Mathematics and Statistics, Physics and Astronomy, and Anthropology. The successful candidate will receive a competitive start-up package and benefit from many resources at McMaster including the Sharcnet computer cluster (www.sharcnet.ca), the Center for Microbial Chemical Biology (cmcb.mcmasteriidr.ca), the Biointerfaces Institute (biointerfaces.mcmaster.ca), the McMaster Biophotonics Facility (www.macbiophotonics.ca), the Origins Institute (origins.mcmaster.ca).

McMaster University is located in Hamilton, Ontario, a culturally diverse city of ~500,000 people, which is roughly equidistant between Toronto and Buffalo, New York. Hamilton city offers a great quality of life and is experiencing a post-industrial revival. Resources include easy access to natural wonders such as Niagara Falls and the Niagara Escarpment, the Bruce Peninsula, and Algonquin Provincial Park, an expanding network of bike paths, seasonal climate, and a burgeoning food and nightlife scene.

Candidates must have a Ph.D. and a demonstrated record of high-impact research. Applicants should submit a CV, a statement of research accomplishments and directions, and arrange for three individuals to send

letters of support separately. Review of applications will begin on December 1, 2013 with an anticipated start date of July 1, 2014. Materials should be sent electronically to the Biology Faculty Search committee, c/o Kathy Greaves (greaves@mcmaster.ca). Questions about this position should be addressed to Dr. Roger Jacobs, Chair of Biology (jacobsr@mcmaster.ca).

greaves@mcmaster.ca

Mexico GenomicsBioinformatics

Langebio is currently recruiting three scientists to become Heads of the following Core Facilities: Mass Spectrometry, Genomics, and Bioinformatics. The primary responsibilities of these positions include optimization of current platforms, development of new applications, evaluation of new technologies, implementation of quality control systems, and management of personnel, in order to provide cutting-edge services.

Langebio, the National Laboratory of Genomics for Biodiversity, it is a new Unit of Cinvestav. Its goal is to bring together interdisciplinary groups to carry out cutting-edge research and to generate genetic knowledge about Mexican biodiversity that could lead to its sustainable use. Core Facility Heads will be offered tenure track Faculty positions at CINVESTAV, and the following starting package as institutional support:

Minimum support personnel: 1 research assistant plus 1 postdoc Fully equipped lab space Support from a group of Faculty interested in each of the core technologies Maintenance contracts for equipment (depending on the core facility) Further information specific to each position: <http://www.langebio.cinvestav.mx/?pag=493>
 Angelica Cibrian Jaramillo, PhD Ecological and Evolutionary Genomics LANGEBIO-CINVESTAV Km 9.6 Libramiento Norte Carr. Irapuato-León C.P. 36821, Irapuato, Gto. Mexico acibrian@langebio.cinvestav.mx
 Tel. +52 462 1663014

Angélica Cibrian Jaramillo
 <acibrian@langebio.cinvestav.mx>

MuseumNaturalSci NorthCarolina MicrobialGenomics

Title: Research and Outreach Coordinator

Working Title: Research and Outreach Coordinator to conduct genetics, genomics, and/or microbiology research and communicate ongoing scientific research to the public, to facilitate the public's understanding of how scientific research impacts their daily lives. Work Location: Genomics & Microbiology Lab, North Carolina Museum of Natural Sciences (NCMNS)

Essential Job Duties: One full-time (40 hours/week) position will be available to work in the Genomics & Microbiology (G&M) Lab at NCMNS for one year. This person will work as part of a larger team to conduct ongoing research, and communicate that research to the public. This person will also coordinate supplies and equipment required for the ongoing research projects. This position will involve working collaboratively with members of the Genomics & Microbiology research lab, MicroWorld Investigate Lab (iLab), and Veterinary lab (Windows on Animal Health) to continue research projects and develop lively and interesting narratives that highlight how G&M research relates to, and is integrated with, teaching activities of the iLab, and where possible, with ongoing activities in Windows on Animal Health. Building these narratives will provide opportunities to develop creative programs for the public, to develop student classes to be taught in the iLab, to develop materials for exhibit (in the G&M lab, iLab, museum floor, etc.), and to assist with evaluation of these developed projects.

Ongoing work in our lab includes a variety of projects involving bacteria and fungi associated with diverse organisms V humans, non-human primates, mites, and insects. In addition, we investigate species relationships using molecular biology tools and techniques. As such, a wide range of potential project topics and scientific questions could be addressed in this work. The Coordinator will be encouraged to be highly creative to explore innovative ways to establish connections among labs/departments within the Museum that compellingly and clearly communicate what it is that we do in the G&M Lab.

This position will require occasional weekend and evening work. This position does not include benefits.

Length of appointment: Position appointment will last for 1 year. Ideal start date is December 2013, but is flexible; work location (Raleigh, NC) is not flexible.

Employer: This position is funded through grants from the Institute for Museum and Library Sciences and the National Science Foundation, and is administered through Friends of the NC Museum of Natural Sciences, a nonprofit organization.

Minimum Experience & Education: Masters or Ph.D. (awarded by start date) in evolution, genetics, microbiology, biology, entomology, botany, mycology, or related field. The applicants CV should indicate evidence of the ability and interest to communicate science to a broader audience.

Preferred Experience, Skills, & Training: A background in molecular biology, genetics, genomics, or microbiology is ideal. The successful candidate must be able to interact with a diverse group of researchers, educators and students and benefit from new and established intra- and inter-institution collaborations. The candidate should show strong evidence of the ability to finish projects and must be very organized and able to manage multiple priorities. This project integrates real science with education, and the applicant must have enthusiasm and interest, if not experience and training, in both fields. Once hired, this person will be working as part of a large team of scientists and educators whom they can draw on for support in areas they lack expertise. Science communication is big part of this project, and applicants should emphasize their experience and interest in this regard. The position will be based in the Museum's Genomics & Microbiology Lab, which is on exhibit to the public, with glass walls and weekly opportunities to share new results with the public.

Departmental Required Skills: NC Driver's license required within 60 days of hire.

Application Procedure: Submit your application (CV, cover letter, 3 reference names & contact information) to julie.horvath@naturalsciences.org with the subject line and Outreach Coordinator Position. Application process opens immediately and will continue until a suitable candidate is found.

Friends of the Museum is an Equal Opportunity and Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, national origin, religion, sex, age, veteran status, or disability. In addition, Friends of the Museum welcomes all persons without regard to sexual orientation, and strongly encourages all qualified applicants to apply. Individuals with disabilities desiring accommodations in the application process should contact Dr. Julie Horvath (julie.horvath@naturalsciences.org).

"Stuart, Bryan" <bryan.stuart@naturalsciences.org>

— / —

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>

NewYorkU
EvolGenomicsSystemsBiol

NewYorkU
EvolGenomicsSystemsBiol

New York University's Center for Genomics & Systems Biology (<http://cgsb.as.nyu.edu>) in the Department of Biology invites applicants to apply for two open rank faculty positions to begin September 1, 2014, or as negotiated pending budgetary and administrative approval. We are open to applicants using a wide array of systems biology approaches but are especially interested in the following areas: 1) novel imaging approaches to high-throughput phenotyping or single molecule analysis, 2) single-cell genomic and microfluidic methods, 3) computational biology, and 4) systems approaches to genetics or evolution.

Candidates will be expected to have or develop active, externally funded, research programs and to participate in the department's teaching activities at both the undergraduate and graduate levels. The Department of Biology (<http://biology.as.nyu.edu>) offers an outstanding, collegial and interdisciplinary research environment that supports ambitious research projects in genomics and systems biology. In addition, strong interactions exist with faculty in other divisions within NYU including the Courant Institute of Mathematical Sciences and NYU-Abu Dhabi, which has built high-throughput experimental resources in robotics for chemical screens, sequencing, high performance computing, and other instrumentation. Faculty at NYU-Washington Square collaborate and utilize resources at both institutions.

Application packages should include a cover letter, research statement, teaching statement, curriculum vitae, and three letters of reference. Please apply online via the New York University Department of Biology website (<http://biology.as.nyu.edu>), using the "Employment" link. The cover letter should be addressed to: Chair of the CGSB Search Committee, Department of Biology, New York University, 1009 Silver Center, 100 Washington Square East, New York, NY 10003. Selection will begin November 15, 2013; applications received prior to this date will be guaranteed full evalua-

tion.

mrockman@nyu.edu

NewYorkU Abu Dhabi
Computational Biology

New York University Abu Dhabi, a part of New York University's global network, invites applications for faculty positions (open rank, tenure or tenure-track) for appointments as faculty in biology. We particularly encourage applications from candidates with research interests in computational systems biology, genetic and chemical genetic networks, and neuronal and developmental systems.

Candidates will be expected to have or develop active research programs and to participate in the division's teaching activities at the undergraduate and graduate level. Successful candidates will find a vibrant research and teaching environment that includes supportive and highly motivated colleagues, access to significant resources, a competitive startup package, and broad opportunities for interdisciplinary research across the different science and engineering areas being developed at NYU Abu Dhabi as well as across campuses of the NYU system.

Successful candidates will also have access to state of the art core facilities that include deep sequencing, robotics, advanced microscopy, and High Performance Computing facilities with more than 6400 computing cores and a peak performance of 70 TFLOPS.

The terms of employment are highly competitive and include housing and educational subsidies for children. Faculty may also spend time at NYU New York and other sites of the global network, engaging in both research and teaching opportunities. Appointments can begin as soon as September 1, 2014, but candidates may elect to start as late as September 1, 2015.

Applications are due by November 25, 2013; however, applications received later will be reviewed until the positions are filled. Candidates should submit a curriculum vitae, statements of teaching and research interests (not to exceed three pages each), no more than three representative publications and three letters of reference in PDF format. If you have any questions, please e-mail nyuad.science@nyu.edu.

This position is located in Abu Dhabi, UAE. NYU Abu Dhabi is an Equal Opportunity/Affirmative Ac-

tion Employer.
yi3@nyu.edu

NorthCarolinaStateU 2 Bioinformatics

The Bioinformatics Research Center (BRC) at North Carolina State University, in partnership with the Chancellor's Faculty Excellence Program, invites applications for two tenure track faculty positions in Bioinformatics and Computational Biology. These positions will start in Fall 2014, and are anticipated to be at the rank of Assistant Professor, although outstanding applicants will be considered at all levels. The positions will be affiliated with the BRC, with Departmental/College affiliation determined according to the interests, expertise and training of the successful applicant. Specific areas of interest include, but are not limited to: comparative and evolutionary genomics, cheminformatics, metagenomics, toxicogenomics, and novel methods for the analysis of complex biological data. Applicants must have a Ph.D. or equivalent in Bioinformatics, Biostatistics, Computer Science, Genetics, Statistics, or related field.

Applicants must complete an applicant profile and attach a letter of application, curriculum vitae, and contact information for three references. Transcripts may be requested of finalists. Applications may be submitted via the site:

<https://jobs.ncsu.edu/postings/29368>

or by visiting <https://jobs.ncsu.edu> and searching for position number 00103131 .

Review of applications will begin December 1, 2013, and continue until the positions are filled. Informal inquiries may be directed to Dr. Fred Wright (fred_wright@ncsu.edu) or Dr. David Bird, Bioinformatics Cluster coordinator (bird@ncsu.edu).

fred_wright@ncsu.edu

OhioU Athens PlantEvolOmics

The Department of Environmental and Plant Biology at Ohio University seeks an individual for a full-time, tenure-track, 9-month assistant professor position beginning August 25, 2014. The successful candidate will be expected to develop an outstanding, externally funded research program in any area of plant omics (e.g., plant genomics, transcriptomics, proteomics, metabolomics, ecological genomics, evolutionary genomics) that involves undergraduate and graduate students and complements ongoing research in the department. The ideal candidate should have considerable experience in plant omics, coupled with expertise in computational, bioinformatic, or statistical analyses. The successful candidate will have a strong relationship with the Ohio University Genomics Facility, which is housed in the department. Primary teaching responsibilities are anticipated to include courses in bioinformatics, statistics and an upper-level undergraduate/graduate course in their area of specialty. The department (<http://www.plantbio.ohiou.edu/>) consists of 12 full-time faculty, 30 graduate students, and 70 undergraduate majors. Further information about Ohio University can be found at: <http://www.ohio.edu>. Minimum Qualifications: PhD in plant molecular and cellular biology or a related field and postdoctoral work in plant omics. We seek a candidate with a commitment to working effectively with students, faculty, and staff from diverse backgrounds. Women and minorities are encouraged to apply. Ohio University is an EEO/AA Employer.

To apply, complete and submit an online application (www.ohiouuniversityjobs.com) and attach required documents (CV, cover letter, statements of teaching philosophy and research interests/goals, 3 publications representative of your research, contact information for 3 references, and unofficial PhD transcripts).

Please direct questions to Dr. Morgan Vis, Department Chair, vis-chia@ohio.edu. The position remains open until filled. For full consideration, apply by November 17, 2013. Interviews tentatively scheduled for January 2014.

David M Rosenthal Assistant Professor Department of Environmental and Plant Biology 309 Porter Hall Ohio University Athens, OH, 45701 740 593 0792 http://www.plantbio.ohiou.edu/-index.php/directory/faculty_page/david_m_rosenthal/davidrosenthal2@gmail.com

Ottawa 1mth Bioinformatics Consultant

JOB DESCRIPTION - Bioinformatics Consultant - COMPETITION RI-13-017 Children's Hospital of Eastern Ontario Research Institute Ottawa, Ontario Request for Applications: Bioinformatics Consultant (can work remotely) Term: 1 month; renewable once

The Children's Hospital of Eastern Ontario Research Institute wishes to retain the services of a Bioinformatician consultant. We are a national consortium and public-private partnership working with Pfizer's Orphan Disease Research Unit aiming to improve the diagnosis and treatment of rare genetic disease. We wish to identify clinic-approved or clinic-ready compounds which modulate the levels mRNA and thus protein encoded by genes which either cause or impact rare disease. The successful candidate, working in a one month contract with the possibility of renewing for a second month, will therefore mine large scale systems wide datasets as well as the literature providing expert advice on the pharmacologic modulation of mRNAs predicted to impact rare disease pathway for as many as 50 rare genetic disorders.

Qualifications . Graduate degree in a relevant field . Creativity, high degree of autonomy . Bioinformatic and computational skills

One of the genes we are studying is ITPR1 which when mutated can cause Spinocerebellar ataxia. We would ask applicants interested in this contract to submit both their CV to the attention of cbeaulieu@cheo.on.ca, and a no longer than one page précis of means of increasing ITPR1 mRNA and/or protein. They may also describe pathogenic pathways mapping downstream of the ITPR1 that may be modulated and means of doing so.

"Currie, Judy" <jucurrie@cheo.on.ca>

PrincetonU Evolutionary Biol

Assistant Professors, Princeton University

Assistant Professorship Quantitative Evolutionary Genetics

Princeton University's Department of Ecology & Evolutionary Biology and the Lewis-Sigler Institute for Integrative Genomics seek to jointly hire a tenure-track Assistant Professor focusing on Evolutionary and Quantitative Biology. Sample areas might include, but are not limited to: molecular/genome evolution, population genomics, evolution of development, behavioral genetics, experimental evolution, microbial evolution of prokaryotes or eukaryotes, epigenetics, metagenomics, and/or quantitative genetics, using traditional and/or emerging model systems (though the specific model system is less important than the nature of the questions being addressed). We seek applicants who pursue research that aims for significant conceptual integration across traditional disciplinary boundaries. We likewise seek colleagues who will enthusiastically contribute to a climate that embraces both excellence and diversity, and who share our commitment to a mentoring process that advances EEB, LSI and the university, and that attracts and retains students of all ethnicities, nationalities, and genders.

Applicants should write a vision statement, no longer than 2 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 just a summary of the applicant's prior and current research. Applications, including a cover letter with links to three major publications or pre-prints, the vision statement, curriculum vitae, and contact information of three references for online reference request, must be submitted online via <http://jobs.princeton.edu>, to Req #1300612. Screening of applications will begin immediately and continue until the position is filled.

Princeton University is an equal opportunity employer and complies with applicable EEO and affirmative action regulations.

Laura F. Landweber, Professor Ecology & Evolutionary Biology, 223 Guyot Hall Princeton University, Princeton, NJ 08544 <http://www.princeton.edu/~lfl> tel 609-258-1947 * fax 609-258-7892 * lfl@princeton.edu

Laura Landweber <lfl@princeton.edu>

Queen Mary U London Bioinformatics

Research Computing/Bioinformatics support @ Queen Mary, London UK

Dear Evoldir members,

The School of Biological & Chemical Sciences at Queen Mary Uni London is hiring a creative, computationally savvy person to help make the most of our computing efforts. You'll be interacting with bioinformaticians, with evolutionary genomics, chemoinformatics, proteomics, ecology & psychology researchers, and with our central research computing service. Initially, the aim will be to help us strike the right balance of using central computing, fat and small machines, cloud & single board computing, to make sure required solutions are properly implemented & running smoothly. In this manner you'll form the seed of an informatics support facility. Subsequently, depending on your interests, you can become more involved either in participating in the research projects through coding or data analysis (opportunities for coauthorship & learning new skills) or in further developing our resources. Or both.

We have a strong & dynamic community of Ecology/Evolution researchers [e.g. 1, 2]. The role could be a great opportunity for an ecology/evolution researcher who knows their way around computers, wants to stay close to the research, but also finds pleasure in supporting a broad range of different research projects.

More details are in the full ad: <http://goo.gl/JGnLU2>
I'm happy to answer any questions by email.

The initial contract is for two years. Pay is in the range of 42,601 to 47,559 GBP per year. Closing date for applications is November 21st 2013.

WHERE: Fogg Building, Queen Mary University in London, UK (minutes from London's Shoreditch technology hub & in a hip & fun part of Zone 2 East/Central London).

[2]: <http://www.sbcs.qmul.ac.uk/research-researchdivisions/organismalbiology> [3]: <http://evolve.sbcs.qmul.ac.uk> Yannick Wurm - <http://yannick.poulet.org> Ants, Genomes & Evolution â y.wurm@qmul.ac.uk â skype:yannickwurm â +44 207 882 3049 5.03A Fogg â School of Biological & Chemical Sciences â Queen Mary, University of London â Mile End Road â E1 4NS London â UK

y.wurm@qmul.ac.uk

RutgersU EvolBiolSystems

Faculty Position Complex Systems Biologist

The Department of Biological Sciences at the New Jer-

sey Institute of Technology invites applications for a tenure-track, fulltime Assistant or Associate Professor position in the general area of complex biological systems. We seek candidates who will examine biological systems at any level, from cells to ecosystems, with an integrative view across levels. The candidate should use state-of-the-art technologies, including, but not limited to, molecular biology, cellular biology, genomics, proteomics, phenomics, transcriptomics, remote/optical sensing, and/or organismal tracking, to collect and analyze laboratory and/or field experimental data. Applicants must have a Ph.D. degree or equivalent, postdoctoral training, demonstrated research expertise, and a history of, or potential for, successful extramural funding.

The successful candidate will be expected to develop a strong, externally funded and independent research program, and must demonstrate potential for teaching excellence at undergraduate and graduate levels. The candidate will have opportunities to collaborate with ecologists, evolutionary biologists, neuroscientists and cell biologists in the Department of Biological Sciences, as well as engineers, mathematicians, and computer scientists at NJIT and surrounding institutions.

Applicants should submit a single PDF document containing a cover letter, a CV, a brief statement of current and proposed research plans, and a teaching statement. The document should also include 5-7 keywords that best describe the applicant's research interests, and a link to their Google Scholar page. All applications must be submitted on-line at njit.jobs, referencing posting 0601802. Candidates should arrange for three letters of recommendation to be sent to patrice.j.edwards@njit.edu. Review of applications will begin December 15th, 2013. Please address any questions to Jorge Golowasch at golowasch@njit.edu.

NJIT is an Equal Opportunity / Affirmative Action Employer. We welcome all applications regardless of race, color, religion, national origin, sex, age, disability or veteran status. Researchers from traditionally underrepresented groups are especially encouraged to apply.

Dr. Jessica L. Ware Assistant Professor Rutgers, the State University of New Jersey Boyden Hall, room 406 195 University Ave, Newark, NJ, 07102 973.353.5531

A word after a word after a word is power. (B - Margaret Atwood)

Jessica Ware <jware@amnh.org>

StonyBrookU 6 PlantEvolEcolGenomics

As part of a six-position cluster hire in genomics, we are searching for a Plant Ecological or Evolutionary Genomicist. The Genomics cluster is part of an exciting interdisciplinary plan to hire 250 faculty members at Stony Brook University. In addition to this position, the cluster will be composed of new faculty working in the general areas of: Experimental Marine Genomics; Experimental Genomics; Computational Biology; Ecological Genomics of Marine Microbial Communities; and Merging Genomics, Microfluidics, and Nanotechnology. These new faculty will most likely be housed in one of the following units: the Department of Ecology and Evolution, School of Marine and Atmospheric Sciences, Departments of Molecular Genetics and Microbiology, Computer Sciences, or Biomedical Engineering, and may also be affiliated with the Laufer Center for Physical and Quantitative Biology and/or Institute for Advanced Computing.

For the Plant Evolutionary or Ecological Genomics position, we seek to add a faculty member with a research focus on evolutionary or ecological genomics of plants. We expect this person to apply the functional, experimental, comparative, or computational study of plant genome or transcriptome conservation and diversification across population or evolutionary time scales or in different ecological contexts. A genomicist studying questions in plant evolution and ecology will fill a vital role in the interdisciplinary development of genomics at Stony Brook. We are searching broadly for an excellent scientist working on either model or non-model species, and possessing specialized expertise in plant experimental genomics, plant comparative genomics, plant population genomics, or plant ecological genomics.

These are tenure track positions. It is expected that the positions will be filled at the Assistant Professor level; however, exceptional candidates at higher ranks will also be considered. The positions are expected to begin September 2014. Applications will be accepted until all positions are filled. For best consideration, applications should be received before 1/31/2014.

A detailed description of all six positions is available at <http://tinyurl.com/SBUgenomics>. Information about the Department of Ecology and Evolution is available at <http://life.bio.sunysb.edu/ee/>. Application Procedure:

Applicants should complete the application process online at <https://genomics-hiring.cs.stonybrook.edu/>. The complete dossier should include a State employment application, cover letter, CV, statements of research and teaching interests and a list of four professional references. Electronic submission of materials is highly preferred.

For additional information, contact: genomicscluster@stonybrook.edu

Campus Description: Stony Brook University, home to many highly ranked graduate research programs, is located 60 miles from New York City on Long Island's scenic North Shore. Our 1,100-acre campus is home to 24,000 undergraduate, graduate, and doctoral students and more than 13,500 faculty and staff, including those employed at Stony Brook Medicine, Suffolk County's only academic medical center and tertiary care provider. The University is a member of the prestigious Association of American Universities and co-manager of nearby Brookhaven National Laboratory (BNL), a multidisciplinary research laboratory supporting world class scientific programs utilizing state-of-the-art facilities such as the Relativistic Heavy Ion Collider, the National Synchrotron Light Source, and the Center for Functional Nanomaterials, and the NewYorkBlue IBM BG/L+P supercomputer, owned by Stony Brook and managed by BNL. Stony Brook is a partner in managing the Laboratory for the Department of Energy, and is the largest institutional scientific user of BNL facilities. As such, many opportunities exist for collaborative research, and in some cases, joint appointments can be arranged.

Joshua Rest Assistant Professor Department of Ecology and Evolution Stony Brook University <http://life.bio.sunysb.edu/ee/restlab/>
joshua.rest@stonybrook.edu
joshrest@gmail.com

TempleU ResTech PlantEvolution

RESEARCH TECHNICIAN POSITION IN PLANT EVOLUTIONARY ECOLOGY AT TEMPLE UNIVERSITY

Applications are invited for a full-time research technician in the Spigler lab in the Biology Department at Temple University in Philadelphia, PA. General research areas in the laboratory include plant ecology,

evolution, and genetics, with an emphasis on the evolutionary ecology of plant reproductive systems. The technician is expected to carry out greenhouse, field, and molecular studies. Duties will include: DNA extraction, PCR, genotyping; plant care in greenhouse; data collection on plants in field and greenhouse; supervising undergraduate researchers; general lab maintenance.

The candidate should have a BS or BA in biology, ecology, genetics, horticulture/plant sciences, or similar and previous experience performing research. The ideal candidate will have experience with basic molecular techniques (DNA extraction, PCR), field experience, good organizational skills and attention to detail, and an ability to work well with and supervise undergraduate students. Previous experience working with plants is desirable. The position is ideal for a highly motivated person interested in gaining additional field and laboratory experience prior to starting graduate school.

This is a full-time, one-year position with the possibility of additional years subject to performance review and funding. Salary is commensurate with experience and includes benefits.

Please email a letter of interest, CV, and names of and contact information for 3 references to rachel.spigler@temple.edu. Review of applications will begin November 22, 2013. Anticipated start date is mid-January 2014 and can be flexible. For more information on the lab: <http://rachelspigler.weebly.com>. Please feel free to email me with questions at the above email address.

Rachel B. Spigler Assistant Professor Department of Biology Temple University 1900 N 12th Street Philadelphia, PA 19122 (215) 204 - 8855

tuf10949@temple.edu

TempleU ScientificProgrammer

Seeking a Ph.D. level scientific programmer to join the new Center for Computational Genetics and Genomics (CCGG) under the direction of Dr. Jody Hey at Temple University, in Philadelphia, PA.

As a research assistant professor the successful candidate will work closely with other CCGG faculty

as well as postdocs, graduate students, and undergrad-

uates. The position also carries opportunities for writing grant applications as well as teaching, both in the classroom and in the laboratory.

Responsibilities will include assisting writing applications for the study of evolutionary divergence. The programmer will work closely with other CCGG faculty, programmers, postdocs and students.

The work requires experience and skill in implementing complex algorithms and data structures in multiple programming languages and with little regard to OS (i.e. Unix/Linux and MS Windows experience desired). Preference will be given to applicants with experience working with genetic or genomic data and to applicants with experience programming in a scientific research environment.

Additional duties may include assisting in supervising undergraduate researchers and helping to provide content for the center website and social media outlets.

Education Requirements:

Candidates are required to have a Ph.D. in some area of computational genetics or structural biology. Candidates with a Ph.D. in computer science who have worked in some area of bioinformatics will also be considered.

The position will be filled as soon as possible.

Information on the work environment is available at :

<https://bio.cst.temple.edu/~hey/CCGG/> and

<https://bio.cst.temple.edu/~hey/> Applicants should provide:

- A cover letter explaining suitability for the position and career goals.

- Resume/CV

- Email contacts for three letters of reference

Submit application materials by email to:

Jody Hey hey@temple.edu

Director, Center for Computational Genetics and Genomics

Professor, Department of Biology, Temple University

Jody Hey <tuf29449@temple.edu>

TennesseeTech ChairBiology

Chairperson, Department of Biology. Tennessee Tech University

The Department of Biology at Tennessee Tech University is seeking an individual in the field of biological sciences or wildlife and fisheries science to serve as Department Chair. The successful candidate will advise graduate students and teach graduate and/or undergraduate courses according to his or her field of expertise.

The Department of Biology is a rapidly growing unit that offers undergraduate and graduate degrees, including a biology environmental sciences Ph.D. The department offers courses in the biological sciences and wildlife and fisheries science and maintains a dynamic research program. Information about the Department is available at <http://www.tntech.edu/biology/home/>. Tennessee Tech University, the state's technological university, is a comprehensive university with an enrollment of more than 11,000 students; it offers more than 40 baccalaureate and more than 20 graduate degree programs. US News & World Report most recently chose TTU as one of the Top 15 Public Regional Universities in the South according to the 2012 report. The University has been chosen as a "Best Southeastern College" by The Princeton Review for several years. Cookeville is located in the karst belt of central Tennessee near the foothills of the Cumberland and Appalachian Mountains, a region renowned for its biodiversity.

Applicants must hold a PhD in the biological sciences or wildlife and fisheries science and have demonstrated excellence in teaching, extensive publication record, a history of external funding and graduate student mentorship consistent with full-professor status.

A complete position summary and application procedure is available at www.tntech.edu/jobs. Members of underrepresented groups are strongly encouraged to apply. Inquiries should be sent to: Dr. Michael Harrison, Biology Chairperson Search Committee, Box 5062, Tennessee Technological University, Cookeville, TN 38505 (Email: MHARRISON@TNTECH.EDU). Screening of applications begins December 23, 2013; open until filled. AA/EEO

skrosnick@tntech.edu

TexasAM ArthropodSystematics

Position Announcement

Assistant Professor of Entomology – Arthropod Systematics and Biodiversity Department of Entomology Texas A&M University

Position Description. Assistant Professor of Entomology, 10-month tenure-track appointment. Located in the Department of Entomology, College of Agriculture and Life Sciences, Texas A&M University, College Station, TX 77843-2475. The appointment is structured as 62% research, 33% teaching, and 5% service. For more information, see <http://insects.tamu.edu> and <http://aglifesciences.tamu.edu/>

Qualifications. Ph.D. or equivalent degree in Entomology or related biological science field with emphasis on insect or arthropod systematics is required. Candidates should have a strong record of scholarly achievement. Desired qualifications include experience in teaching at the undergraduate or graduate level, experience in mentoring students, a demonstrated record of obtaining extramural support, and experience in the development of natural history collections. The successful candidate will demonstrate the ability to collaborate in multidisciplinary teams and have excellent written and oral communication skills.

Research (62%). Development of a strong, extramurally funded research program in systematic entomology is expected. The research program should employ phylogenetic methods in comprehensive or monographic studies to address questions involving evolutionary patterns of adaptation, biodiversity, speciation, behavior, ecology, biogeography, or other areas of evolutionary or comparative biology. Research may be directed at any group of insects or terrestrial arthropods. Demonstrated experience in one or more of the following is highly desirable: emerging methods for high-throughput DNA sequencing, phylogenomics, biodiversity informatics, cybertaxonomy, population genetics and coalescent theory, quantitative analysis of molecular data, or other modern research methodologies relevant to the research.

Teaching (33%). Teaching duties will include both undergraduate and graduate courses in Entomology that are appropriate to the expertise and interests of the appointee and that address the needs of the department. Mentoring of undergraduates, graduate students, and post-docs as appropriate is expected of all faculty. A 33% teaching appointment in Entomology typically means teaching two, 3-credit undergraduate courses per academic year and one graduate level course in the incumbents specialty on an alternate year basis.

Service (5%). The incumbent will be expected to par-

ticipate in Departmental, College and University governance and to become an active participant in professional scientific societies.

Other Opportunities. Substantial opportunities exist for the appointee to utilize the resources of the Texas A&M University Insect Collection, and to actively participate in its development. The appointee will have an opportunity to engage with a variety of interdisciplinary research programs such as those in Forensic and Investigative Sciences, Ecology and Evolutionary Biology, Whole Systems Genomics Initiative, Vector Biology Research Group, Institute for Neuroscience, and Molecular and Environmental Plant Sciences.

Application. The Department of Entomology, together with Texas A&M University and Texas AgriLife Research, seeks individuals who are able to work with diverse students and colleagues, who have experience with a variety of teaching methods and curricular perspectives, and who will contribute to the diversity efforts of the University. Applicants must include in their cover letter information about the manner in which they will further this goal. Applicants should also address how their research and teaching programs will contribute to addressing the Grand Challenges identified by the College of Agriculture and Life Sciences (<http://aglifesciences.tamu.edu/about/grand-challenges/>).

Applicants should submit a detailed curriculum vitae; a letter of application that outlines long-term career goals and addresses specific issues as they relates to the research, teaching, and service missions of the position; copies of transcripts; reprints of three most significant publications from the previous five years, and the names of four references including their title, mailing address, e-mail address, telephone number, and a brief statement of how each reference knows the candidate. For more information please visit <http://insects.tamu.edu>. To receive full consideration for the position, all application materials must be received by the closing date, 16 January 2014. Send all application materials to:

Department of Entomology Texas A&M University
Attn: Ms. Teresa Gold Minnie Belle Heep Center Room
412 College Station, Texas 77843-2475 Phone: (979)
845-2510

Email: t-gold@tamu.edu

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UArizona Evolutionary Anthropology

The School of Anthropology (College of Social and Behavioral Sciences) at the University of Arizona invites applications for a tenure-track position at the assistant professor level in biological anthropology, to start August, 2014, contingent upon availability of funding. We seek an outstanding scholar conducting innovative research into questions of human evolutionary significance. Specializations can include, but are not limited to, behavioral ecology of humans and nonhuman primates, physiology, anatomy, life history, genetics/genomics, and evolutionary medicine. While the specific area of work is open, research interests that bridge current strengths in biological anthropology are highly desirable, and applicants should explicitly describe in their cover letter how they envision integrating with the current program in the University of Arizona School of Anthropology. Applicants should have Ph.D. in hand, a strong record of research and publications, and a commitment to teaching and mentoring at the undergraduate and graduate levels. Evidence of success in generating external funding is desirable.

*The School is seeking an individual who is able to work with diverse students and colleagues, and who has experience with a variety of teaching methods and curricular perspectives. As an equal opportunity and affirmative action employer, the University of Arizona recognizes the power of a diverse community and encourages applications from individuals with varied experiences, perspectives, and backgrounds. *

Requested Documents (submitted via Career Tracks)

- Cover letter (including discussion of research and teaching interests) - Curriculum Vita - Up to three examples of publications - Names and contact information of three references

Duties and Responsibilities

- Maintain an active teaching and research career. - Mentor undergraduate and graduate students. - Teach four courses (undergraduate and graduate levels) per year.

Minimum Qualifications

- Ph.D. in Anthropology, or related field, in hand by August 1, 2014. - A strong record of research. - Prior publication. - Prior teaching experience.

Preferred Qualifications

- Evidence of success in generating external funding is desirable; or, evidence of fundable research. - A strong record of publications. - Evidence of teaching effectiveness and a commitment to mentoring students.

*Department Web: <http://anthropology.arizona.edu/>
www.UACareers.com/53656 *Apply at: http://www.UACareers.com/53656%0dhr.arizona.edu/-applicant_resources <

*Job Open Date: 10/09/2013 *

Job Close Date: 12/01/2013

Review Begins: 11/15/2013

Benefits Eligible: Yes

Dan Papaaj <papaaj@email.arizona.edu>

UArizona GenomeEvolution

*FACULTY POSITION IN GENOME, PROTEOME, AND METABOLOME FUNCTION AND EVOLUTION *

Departments of Ecology and Evolutionary Biology, Molecular and Cellular Biology, Chemistry and Biochemistry and Computer Science

As the first step of a multiyear cluster-hiring plan, a tenure-track or tenured faculty position at the assistant professor or early associate professor level respectively, is available to a candidate who builds on the strengths of our departments and fosters collaborations among them. We are particularly interested in candidates whose empirical, experimental, and/or computational research explores genome, proteome, and metabolome function and evolution, with the goal of linking genome to phenotype in the context of organismal development, ecological adaptation, and/or disease. The primary appointment will be determined in consultation with the successful candidate. To apply, please submit an online faculty application, including a curriculum vitae, a combined statement of research accomplishments/future directions and teaching interests, and a cover letter describing how your research might relate to more than one of our departments and build connections among them, for job number 53857 at www.uacareertrack.com. In addition, please arrange to have at least three supporting letters sent by email to biosearch@email.arizona.edu. Review of applications will begin on December 2, 2013 and continue until

the position is filled. The University of Arizona is an EEO/AA Employer/M/W/D/V and is seeking individuals who are able to work with diverse students and colleagues.

Best wishes, Noah

Noah K. Whiteman, Ph.D. Assistant Professor, Department of Ecology and Evolutionary Biology The University of Arizona 326 (office) and 333 (lab) Bio-Sciences West, Tucson, AZ 85721 office: 520-626-3950, lab: 520-626-9315 email: whiteman@email.arizona.edu web: www.noahwhiteman.org "Noah K. Whiteman" <whiteman@email.arizona.edu>

UCRiverside ArthropodSymbiontEvolution

Department of Entomology invites applications for an Assistant Professor and Assistant Entomologist or Associate Professor and Associate Entomologist in the area of Arthropod Symbiont Interactions at the University of California, Riverside. Position available July 1, 2014, tenure-track position, 9-month appointment, 25% IR/75% OR. Appointment level and salary commensurate with experience. Ph.D. in Entomology, Biology, Microbiology, Ecology or a related discipline is required; post-doctoral experience is preferred. The focus of this position will be on studying interactions between symbionts and their arthropod hosts. Emphasis will be placed on the use of modern techniques to elucidate how these interactions shape the biology, ecology, evolution, and behavior of arthropods and their symbionts. Applied and basic research consistent with the mission of the Agricultural Experiment Station directed toward managing arthropod pests and/or vectors of diseases is encouraged <http://cnas.ucr.edu/-about/anr/>. Teaching responsibilities include supervision of graduate students, participation in undergraduate instruction (e.g. entomology, microbiology, ecology, or evolution), as well as a graduate course taught in an area of interest. Interactions with the other research groups in interdepartmental programs are encouraged. Applications should include a curriculum vitae, statements of research interests as well as teaching interests and philosophy, up to three select reprints of publications and manuscripts in press and a list of four references that can be contacted after a shortlist is determined. For additional information on the position, please contact Dr. Christiane Weirauch (

tiane.weirauch@ucr.edu), Arthropod Symbiont Interactions Search Committee Chair. Candidates applying for the Assistant level can apply at: <https://aprecruit.ucr.edu/analyst/recruitments/44> and candidates applying for the Associate level can apply at: <https://aprecruit.ucr.edu/analyst/recruitments/45>. Review of applications will begin December 1, 2013, but this position will remain open until filled. Information about the Entomology Department and an expanded description can be found on the website: <http://www.entomology.ucr.edu>. Bradley J. White, Ph.D. Assistant Professor Center for Disease Vector Research Department of Entomology University of California Riverside, CA 92521

bradley.white@ucr.edu

UCalgary GenomicsComputationalBiol

We are currently conducting a search for a new faculty position in computational genomics or biology. This is a terrific opportunity to join a rapidly growing and interactive group of researchers that includes several molecular evolutionary biologists in the local community. Applications should be addressed to chairman Jonathan Lytton as described below.

Job: Faculty Position in Genomics or Computational Biology

The Department of Biochemistry & Molecular Biology, Faculty of Medicine, University of Calgary and the Alberta Children's Hospital Research Institute for Child & Maternal Health invite applications for a full-time position at the Assistant Professor level in the area of Genomics or Computational Biology.

Qualifications include a Ph.D. degree or equivalent, at least two years of post-doctoral experience, and a proven record of research excellence in the development or application of computational tools to address biological/biomedical problems, with a focus on genomics. A strong background in statistics or machine learning will be viewed as an asset.

The successful candidate will join a blossoming multidisciplinary and inter-Faculty team of bioinformaticians, clinical researchers and basic scientists whose research spans model organisms to human disease. The Faculty of Medicine is also home to an undergraduate program in bioinformatics ([\[medicine.ucalgary.ca/bhsc/program/bioinformatics\]\(http://medicine.ucalgary.ca/bhsc/program/bioinformatics\)\), and an emerging graduate program specialization in bioinformatics. The position provides 75% of time protected for research, and will include expectations to contribute to teaching and graduate student supervision. This is an excellent opportunity to develop a vigorous and independent externally-funded research program within a dynamic and collaborative environment. A competitive salary and an attractive start-up package are available. The candidate will be expected to apply for extramural support from national/provincial agencies to sustain their research program.](http://-</p>
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The Alberta Children's Hospital Research Institute encourages a translational approach to research with an emphasis on people, core programs and infrastructure. The Department, Institute and Faculty are home to a number of excellent core research facilities, such as state-of-the-art proteomics and genomics labs, including a next-generation sequencing and bioinformatics platform. Please visit our websites at <http://www.ucalgary.ca/bmb/> and <http://research4kids.ucalgary.ca/> for more information.

Increasing scholarly capacity will help the University of Calgary meet its strategic goal to become one of Canada's top five research universities by 2016, where innovative teaching and groundbreaking research go hand in hand, and where we fully engage the communities we both serve and lead. The strategy is called Eyes High, inspired by the university's Gaelic motto, which translates as "I will lift up my eyes".

Calgary, Canada's fastest growing major city, offers a vibrant, multicultural and family-oriented environment with a population of more than one million. Situated near the Rocky Mountains, Banff National Park and Lake Louise, Calgary has great quality of life and outstanding recreational activities.

Interested candidates should submit by email a single PDF file containing: a cover letter, curriculum vitae, summary of research interests and contact information for three referees, to Dr. Jonathan Lytton, Head of Biochemistry & Molecular Biology, Faculty of Medicine, University of Calgary, 3330 Hospital Drive NW, Calgary, Alberta, Canada T2N 4N1. Email: jlytton@ucalgary.ca

The review of applications will begin on 6 January 2014 and continue until the position is filled.

All qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents will be given priority. The University of Calgary respects,

appreciates, and encourages diversity.

A.P. Jason de Koning, Ph.D.

Assistant Professor University of Calgary, Faculty of Medicine and Alberta Children's Hospital Research Institute for Child and Maternal Health Dept. of Biochemistry and Molecular Biology Dept. of Medical Genetics HMRB Room 283, 3330 Hospital Drive N.W. Calgary, Alberta T2N 4N1 Canada

Office: 403-210-7638 | Lab: 403-220-5833 | Fax: 403-270-8928 Email: jason.dekoning@ucalgary.ca Web: <http://lab.jasondk.org> jason.dekoning@ucalgary.ca

regarding this position should be directed to Professor J. Daniel Hare, Chair of the Insect Evolutionary Genomics Search Committee at daniel.hare@ucr.edu. Review of applications will begin January 3, 2014, but this position will remain open until filled. Information about the Entomology Department and an expanded description can be found on the website: <http://www.entomology.ucr.edu>. Bradley J. White, Ph.D. Assistant Professor Center for Disease Vector Research Department of Entomology University of California Riverside, CA 92521

www.mosquitogenomics.org bradley.white@ucr.edu

UCalifornia Riverside Insect Evolutionary Genomics

The Department of Entomology invites applications for an Assistant Professor/Assistant Entomologist in the area of Insect Evolutionary Genomics at the University of California, Riverside. Position available July 1, 2014, tenure-track position, 9-month appointment, 25% IR/75% OR. Appointment level and salary commensurate with experience. Ph.D. degree in Entomology, Genetics, Genomics, Bioinformatics, Evolution, Ecology, or a related discipline required; postdoctoral research experience is preferred.

The emphasis of research will be on the analysis of genome-scale data to reveal insect evolutionary relationships and identify specific pathways, genes, and mutations driving insect diversification and ecological adaptation. Candidates with experience using population genomic, systems biology, and/or phylogenomic approaches in non-model insects are strongly encouraged to apply. Discovery and development of novel genetic targets for pestiferous insect control in support of the mission of the Agricultural Experiment Station (<http://cnas.ucr.edu/about/anr/>) are encouraged. Teaching responsibilities include mentoring of graduate students, participation in undergraduate instruction, as well as a graduate course taught in an area of interest. Interactions with the other research groups in interdepartmental programs are encouraged.

Applicants should send a cover letter, curriculum vitae, statements of research interests, teaching interests and philosophy, up to three select reprints of publications or manuscripts in press, and arrange for four confidential letters of recommendation to be sent to: <https://aprecruit.ucr.edu/apply/JPF00058>. Questions

UCalifornia Riverside Plant Quant Genetics

We are seeking an assistant/associate professor in quantitative genetics focusing on genetic improvement of agricultural crops. Research may include development of statistical methods integrating genomic and phenotypic information addressing both additive and non-additive genetic variation, methodologies to discover and exploit dominance and epistatic effects as genomic predictors, methods of enhancing the accuracy of genomic predictors across populations, and expanding methodologies for the analysis of complex traits using high-density markers in combination with phenotypic data.

Assistant/Associate Professor appointment level and salary will be competitive, commensurate with accomplishments, and include a research appointment in the Agricultural Experiment Station (<http://cnas.ucr.edu/about/anr/>).

The primary work location is the University of California, Riverside. The successful candidate will have a faculty appointment in the Department of Botany and Plant Sciences (BPSC).

The position will deepen the department's established strength in quantitative genetics and plant breeding and provide expertise in statistical genetics and genomics. The BPSC Department is an interdisciplinary department with faculty working across areas of basic to applied plant sciences. The appointee will have an opportunity to participate in analysis of legacy crop plants for which a prominent history of commodity-oriented research and extensive germplasm collections exist at UCR such as citrus, avocado, wheat and cow-

pea.

A Ph.D. degree with emphasis in quantitative genetics and strong training in statistics is required. Postdoctoral and/or independent research experience is greatly preferred, especially in genome-wide association analysis, with ability to integrate high-density genotype data sets to identify genetic variation that influences complex traits and understanding of theoretical and computational methodologies used in the analysis of quantitative and molecular data for genetic prediction. Programming skills with multiple computer languages are desired.

The candidate is expected to develop vigorous research and teaching programs, which are demonstrated with publications in refereed journals, extramural grant funding, and supervision of graduate students and postdoctoral associates. The candidate should have demonstrated experience in conducting research, strong written and oral communication skills, and a desire to work in a team environment to further strengthen collaborative links with multiple departments in the College of Natural and Agricultural Sciences at UCR. Teaching responsibilities will include graduate and undergraduate level courses that fit the expertise and interests of the successful candidate and departmental needs.

To apply: Applicants should submit (1) a curriculum vitae, (2) a statement of research and teaching interests, and (3) have three letters of recommendation submitted for an assistant level, through <https://aprecruit.ucr.edu/apply/JPF00049>. For an associate level submit (1) a curriculum vitae, (2) a statement of research and teaching interests, and (3) provide names, e-mail and addresses of three references through <https://aprecruit.ucr.edu/apply/JPF00050>. Other inquiries should be directed to the search committee chair, Shizhong Xu (shizhong.xu@ucr.edu).

Review of applications will begin on January 1, 2014 and will continue until the position is filled. Websites: <http://www.plantbiology.ucr.edu/>, <http://www.cepceb.ucr.edu> and <http://www.ucr.edu>

The University of California is an equal opportunity/affirmative action employer. In accordance with Federal law, we are making available our Campus Security Report to all prospective employees.

Tiffany Lindsey Academic Personnel Analyst University of California, Riverside College of Natural & Agricultural Sciences - Dean's Office 2400 Life Sciences Building (951) 827-4647 Tiffany.lindsey@ucr.edu

Tiffany Joy Lindsey <tiffany.lindsey@ucr.edu>

UCollegeLondon 1yr Programmer

The Centre for Biodiversity and Environment Research (CBER), part of Genetics, Evolution and Environment at University College London, are looking to hire a Programmer on a 1 year contract. Further details, including person specification and a job description as well as details on how to apply can be found via:

www.ucl.ac.uk/cber/research-training I would be most grateful if you could post this to your mailing list. Please note the deadline is: 20th November 2013, 16:30(GMT)

Any queries please do not hesitate to contact me.

Best wishes, Chris

Chris Langridge Centre Administrator Centre for Biodiversity and Environment Research (CBER) University College London 2nd Floor, Medawar Building Gower St., London, WC1E 6BT E: c.langridge@ucl.ac.uk T: 0203 108 1609 (Int: 51609)

“Langridge, Chris” <c.langridge@ucl.ac.uk>

UGorgia EvolutionaryAdaptation

ASSISTANT PROFESSOR POSITION MOLECULAR ECOLOGY AND GLOBAL CHANGE UNIVERSITY OF GEORGIA

The Odum School of Ecology and the Department of Genetics, Franklin College of Arts & Sciences at the University of Georgia invite applications for a joint appointment, tenure-track Assistant Professor in molecular ecology. Candidates should be skilled in the use of modern molecular genetic tools and take a question-driven approach to understanding ecological systems, evolution in nature, and/or global environmental change. Areas of research might include, but are not limited to: rapid adaptation and speciation, conservation genetics, evolutionary responses to climate change, habitat alteration or species invasions, or biogeography. The University of Georgia has world-renowned programs in both Ecology and Genetics, and this faculty position is intended to strengthen ties between two

units that have much potential for collaboration in areas of undergraduate education, graduate training and research. Our websites, <http://www.ecology.uga.edu/> and <http://www.genetics.uga.edu/>, provide more information about the respective departments.

The successful candidate will be expected to maintain a rigorous, externally funded research program, will teach in our undergraduate core courses, and will contribute to graduate training. A Ph.D. or equivalent in biology or any relevant field is required, and at least one year of postdoctoral experience is preferred.

To apply, candidates should: (1) combine into a single PDF file a (I) cover letter indicating career goals, (II) curriculum vitae, (III) statement of research accomplishments and future goals (2 pg. max.), (IV) statement of teaching philosophy and experiences regarding instruction and mentoring (2 pg. max.); (2) combine three reprints of research papers into a separate PDF file. These two files should then be submitted online at <http://webapps.ecology.uga.edu/facultysearch/-MEGC>. Candidates should also arrange to have three letters of recommendation submitted via the same web site. Applications received by December 16, 2013 will receive full consideration. The anticipated start date for the position is August 2014.

The University of Georgia is an EEO/AA institution committed 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. 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 and sea grant institution located in the city of Athens, 90 miles northeast of Atlanta.

For more information, contact jpwares@uga.edu

best John

jpwares@uga.edu

Ullinois MathematicalBiol

It's not obvious from the job description, but the Department of Mathematics at the University of Illinois is looking to hire (among other things) mathematicians who study/think about biological phenomena. This is to go along with our newly developed BioMath program. Here's the ad below.

Position Description UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN DEPARTMENT OF MATHEMATICS ASSISTANT/ASSOCIATE PROFESSOR POSITIONS

Applications are invited for one or more full time faculty positions to commence approximately August 16, 2014 at the tenure-track (assistant professor) level and tenured (associate professor) level. In exceptional cases the department will consider a tenured appointment (associate professor) for those who have applied for only the tenure-track position. The department is interested in applicants in all areas of mathematics. Salary and teaching load are competitive.

Assistant position applicants must have a Ph.D. (or equivalent) at time of appointment, and are expected to present evidence of excellence in research and teaching. In exceptional cases the department will consider a tenured appointment (see associate professor ad at <https://www.mathjobs.org/jobs/jobs/5068> for details). Applications should be submitted electronically through <https://www.mathjobs.org/jobs/jobs/5069>. A complete application must include the AMS Standard Cover Sheet for Academic Employment, curriculum vitae including email address, a publication list, a research statement, and the names and contact information for three professional references. An additional reference addressing teaching is strongly recommended. It is strongly suggested that reference letter writers upload their letters before the deadline.

Associate position applicants must have a Ph.D. (or equivalent) in hand and present documented evidence of leadership in research and excellence in teaching. Applications should be submitted electronically through <https://www.mathjobs.org/jobs/jobs/5068>. A complete application must include the AMS Standard Cover Sheet for Academic Employment, a curriculum vitae with a list of publications, and the names and contact information of three professional references. Candidates may include a research statement. It is strongly suggested that reference letter writers upload their letters before the deadline. Applicants are requested not to provide more than three references at this time. The department will solicit additional letters of reference for the finalists for the tenured position following the University's procedures for promotion and tenure. Reference letter writers should submit their letters online through <http://mathjobs.org/>. If they are unable to do so, they may send their letters to the following address: Search, Department of Mathematics, University of Illinois at Urbana-Champaign, 1409 West Green Street, Urbana, IL 61801, USA; tel: (217) 333-3351 search@math.uiuc.edu. Complete applications must be received by November 18, 2013. Late applications can-

not be considered. Applicants may be interviewed before the closing date; however, no hiring decision will be made until after the closing date of November 18, 2013. Illinois is an Affirmative Action /Equal Opportunity Employer and welcomes individuals with diverse backgrounds, experiences, and ideas who embrace and value diversity and inclusivity. (inclusiveillinois.illinois.edu)

fuller@life.illinois.edu

ing Department of Ecology and Evolutionary Biology University of Michigan Ann Arbor, MI rsbaucom@umich.edu

Regina S Baucom Assistant Professor 2059 Kraus Natural Science Building 830 North University Dept of EEB University of Michigan Ann Arbor, MI 48109 (734) 647-8490

rsbaucom@umich.edu

UMichigan LabTech PlantEvolution

RESEARCH TECHNICIAN POSITION: PLANT EVOLUTIONARY/ECOLOGICAL GENETICS, UNIVERSITY OF MICHIGAN, ANN ARBOR, MI

A full-time technician position is available in the Baucom lab in the EEB Dept at the University of Michigan in Ann Arbor, MI. General research in the laboratory addresses plant adaptation to environmental stresses. Duties will include working at the University's main campus, in the nearby greenhouses, at nearby field sites, and may include some travel for germplasm collections. The technician's immediate responsibilities will be to carry out large greenhouse and molecular genetics studies as well as general lab maintenance. Previous experience with basic molecular techniques such as DNA isolation, PCR and cloning is desired.

The candidate should have a BA or BS in biology, genetics, horticulture or plant sciences, previous experience performing independent research, the ability to work well in a group environment, and the willingness to supervise undergraduates. The position is ideal for a highly motivated, organized person interested in gaining field and laboratory skills prior to starting graduate school.

Candidates can apply to this position using the following link (http://umjobs.org/job_detail/87938/-research_lab_specialist_assoc) and are welcome to email rsbaucom@umich.edu with questions. Review of applications will begin November 5, 2013 and continue until a suitable candidate is found – while start date is flexible, the target hiring date would be by the beginning of January, 2014. Salary is commensurate with experience and includes benefits. The position is initially available for 1 year with the potential for extension at least another year depending on performance. The University of Michigan is an equal opportunity employer.

Regina S Baucom 2059 Kraus Natural Science Build-

UMontana MammalianBiology

*ASSISTANT PROFESSOR OF MAMMALIAN BIOLOGY (835-254) * University of Montana

The program in Organismal Biology and Ecology (OBE) (http://cas.umt.edu/dbs/graduate_students/-OBEGraduatePage.php) in the Division of Biological Sciences and the Wildlife Biology Program (<http://www.cfc.umt.edu/WBIO/>) at The University of Montana invite applications for a mammalian biologist. These outstanding programs have interactive and collaborative faculty with outstanding records of scholarship, student training, international collaboration and public outreach. We welcome applications from individuals of diverse backgrounds, experience and perspectives.

RESPONSIBILITIES: 1) development of a vigorous, externally funded research program in mammalian ecology/conservation/evolution that includes a strong field component; 2) teaching a senior-level course in mammalogy and undergraduate and graduate course(s) in areas of interest; 3) directing graduate student research in the Organismal Biology and Ecology program and the Wildlife Biology program; and 4) contributing to the Institute on Ecosystems, which emphasizes integrated, landscape-level science.

ACADEMIC AND PROFESSIONAL QUALIFICATIONS: The candidate must possess: 1) a Ph.D.; 2) a record of research achievement in the area of mammalian biology with a strong field component and demonstrated success in securing competitive grant funding; and 3) a proven ability to communicate effectively with students, scientists, and the general public.

Candidates with post-doctoral experience; teaching; experience directing student research; expertise in areas that complement our current strengths; successful development of proposals; and interaction with state, federal, and private organizations are strongly encouraged

to apply.

Applicants should submit application materials (CV, statements of research and teaching interests, representative examples of publications, and names of three references) via online application at: UM Jobs <http://bit.ly/HxrDuR>. Review of applications will begin December 2, 2013, and continue until the position is filled. Please direct queries to: Dr. Joel Berger (Search Committee Chair) - joel.berger@mso.umt.edu

The University of Montana is one of the nation's outstanding public universities, committed to liberal arts education, research, and strong professional programs, and the recipient of a recent NSF ADVANCE award. UM is located in Missoula, a northern Rocky Mountain city that lies at the center of five valleys where three great rivers converge. Located between Yellowstone and Glacier National Parks, Missoula boasts a blend of small-town charm and urban sophistication. It has a thriving art and cultural scene with 8 museums, 30 art galleries, a symphony orchestra, internationally known writers and festivals, a professional modern dance troupe and a children's theater that tours worldwide. The surrounding areas offer abundant recreational options, including hiking, biking, skiing, hunting, rafting, fly-fishing, and bird-watching. As a result, this University position offers an unparalleled quality of life.

The University of Montana embraces diversity as a core value. We are interested in hiring a candidate who will contribute to the diversity of our faculty. UM is an Equal Employment Opportunity/Affirmative Action/ADA/Veterans Preference employer.

jeffrey.m.good@gmail.com

UMontana MammalianEvolution

*ASSISTANT PROFESSOR OF MAMMALIAN BIOLOGY (835-254) * University of Montana

The program in Organismal Biology and Ecology (OBE) (http://cas.umt.edu/dbs/graduate_students/OBEGraduatePage.php) in the Division of Biological Sciences and the Wildlife Biology Program (<http://www.cfc.umt.edu/WBIO/>) at The University of Montana invite applications for a mammalian biologist. These outstanding programs have interactive and collaborative faculty with outstanding records of scholarship, student training, international collaboration and

public outreach. We welcome applications from individuals of diverse backgrounds, experience and perspectives.

RESPONSIBILITIES: 1) development of a vigorous, externally funded research program in mammalian ecology/conservation/evolution that includes a strong field component; 2) teaching a senior-level course in mammalogy and undergraduate and graduate course(s) in areas of interest; 3) directing graduate student research in the Organismal Biology and Ecology program and the Wildlife Biology program; and 4) contributing to the Institute on Ecosystems, which emphasizes integrated, landscape-level science.

ACADEMIC AND PROFESSIONAL QUALIFICATIONS: The candidate must possess: 1) a Ph.D.; 2) a record of research achievement in the area of mammalian biology with a strong field component and demonstrated success in securing competitive grant funding; and 3) a proven ability to communicate effectively with students, scientists, and the general public.

Candidates with post-doctoral experience; teaching; experience directing student research; expertise in areas that complement our current strengths; successful development of proposals; and interaction with state, federal, and private organizations are strongly encouraged to apply.

Applicants should submit application materials (CV, statements of research and teaching interests, representative examples of publications, and names of three references) via online application at: UM Jobs <http://bit.ly/HxrDuR>. Review of applications will begin December 2, 2013, and continue until the position is filled. Please direct queries to: Dr. Joel Berger (Search Committee Chair) - joel.berger@mso.umt.edu

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The University of Montana embraces diversity as a core value. We are interested in hiring a candidate who will contribute to the diversity of our faculty. UM is an Equal Employment Opportunity/Affirmative Action/ADA/Veterans Preference employer.

Jeffrey Good <jeffrey.good@mso.umt.edu>

Asheville, NC 28787

kormanik@unca.edu

828 251 6644

rhale@unca.edu

UNorthCarolina Asheville LabManager

Job: Laboratory Manager / Instructor - University of North Carolina Asheville

The Biology Department at the University of North Carolina Asheville is seeking a full time (12 month appointment) Laboratory Manager/Instructor.

The Laboratory Manager/Instructor is responsible for the overall operation of the Biology laboratories and teaches six contact hours per semester and six contact hours during the summer of introductory biology lecture or lab courses. Candidates must have at least a Master's degree in biology or related discipline and preferably will have teaching experience and previous experience with laboratory equipment, microbiology lab preparation, ordering lab supplies and maintenance of lab operations.

This position coordinates laboratory teaching and support activities for introductory biology courses, prepares class materials, maintains teaching laboratories, orders equipment and supplies, and maintains inventory. In addition, the position provides technical service for the Department of Biology equipment and electronics, including ordering, minor repairs and maintenance support. The position also supports laboratory activities in advanced courses, time permitting.

UNC Asheville is the designated liberal arts institution in the UNC public university system and is located in the Blue Ridge Mountains of Western North Carolina. We encourage applications from traditionally under-represented minorities. UNC Asheville is committed to increasing and sustaining the diversity of its faculty, staff, and student body as a part of its mission and its commitment to excellence in the liberal arts.

For more information or to apply, please visit this link: careers.unca.edu/applicants/Central?quickFindQ403

Gregg Kormanik Chair, Biology Department University of North Carolina Asheville One University Heights

UNorthCarolina Wilmington 2 PlantSystematics

ASSISTANT PROFESSORS PLANT BIOLOGY

The Department of Biology and Marine Biology at the University of North Carolina Wilmington (UNCW) invites applications for two tenure-track faculty positions in plant biology beginning August 2014. Candidates with research interests in plant systematics or any area of plant metabolism at the molecular, cell or organismal levels, are particularly encouraged to apply. Duties include undergraduate and graduate teaching, maintaining an active research program, and directing graduate students. Graduate curricula include Masters programs in Biology and Marine Biology as well as a Ph.D. program in Marine Biology. Candidates must have a Ph.D. and post-doctoral experience. State of the art science buildings, an extensive algal and vascular plant herbarium and the Center for Marine Science provide excellent support for research. For additional information on faculty and programs see: www.uncw.edu/bio and www.uncw.edu/cmsr. To apply, complete the online application process at <http://consensus.uncw.edu> by electronically submitting (1) a letter of application including brief statements of teaching and research interests, (2) a curriculum vitae, and (3) contact information for three references. MS Word or PDF attachments are preferred. For questions about the position, contact Dr. Michael J. Durako, Search Chair, durakom@uncw.edu or (910) 962-2373. For questions about the online application process, contact Ms. Tracie Chadwick, chadwickt@uncw.edu or (910) 962-3536. Priority consideration will be given to applications received by December 6, 2013. UNC Wilmington actively fosters a diverse and inclusive working and learning environment and is an equal opportunity employer. Qualified men and women from all racial, ethnic, or other minority groups are strongly encouraged to apply.

mjd

Michael J. Durako, Professor The University of North Carolina Wilmington Department of Biology and Marine Biology Center for Marine Science 5600 Mar-

vin Moss Ln Wilmington, NC 28409 910-962-2373 durakom@uncw.edu people.uncw.edu/durakom

“Durako, Michael” <durakom@uncw.edu>

UOregon QuantBiol

Faculty Positions in Quantitative Biology University of Oregon

The Departments of Biology (<http://biology.uoregon.edu>) and Mathematics (<http://math.uoregon.edu>) at the University of Oregon announce a cluster hire of up to three tenure-related faculty positions in Fall 2014. One of these positions may be at the level of Associate or Full Professor with indefinite tenure. These hires are part of an integrated effort to strengthen research and scholarship at the nexus of statistics/mathematics and biology at the University of Oregon, and will serve as a catalyst for future growth in this area. We are broadly interested in recruiting candidates working in areas developing statistical methodology related to the life sciences. Examples of these areas include, but are not limited to, statistical analysis of large data sets, algorithms for analyzing sequence data, systems biology, mathematical models for cell biology, and stochastic/mathematical models for neuroscience, population genomics and molecular evolution. Successful candidates will bolster our emerging strengths in biomathematics, maintain an outstanding research program that focuses on solving core problems in this area, and have a commitment to excellence in teaching. Ph.D. required. Position responsibilities include undergraduate teaching.

Interested persons should apply online to the MATH-BIO SEARCH, University of Oregon at <https://www.mathjobs.org/jobs/jobs/5179>. Applicants should submit a cover letter, a curriculum vitae including a publication list, a statement of research accomplishments and future research plans, a description of teaching experience and philosophy, and three letters of recommendation. Ideally the research description and at least one of the letters of recommendation would include descriptions of the statistical/mathematical tools or models used in the applicant’s research. To ensure consideration, application materials should be uploaded by November 15th, 2013, but the search will remain open until the positions are filled.

Women and minorities are encouraged to apply. The University of Oregon is an Equal Opportu-

nity/Affirmative Action Institution committed to cultural diversity and compliance with the Americans with Disabilities Act, and supportive of the needs of dual career couples. We invite applications from qualified candidates who share our commitment to diversity.

William A. Cresko, Associate Professor of Biology Director, Institute of Ecology and Evolution (IE²) University of Oregon, Eugene, OR 97403-5289 www.uoregon.edu/~wcresko @wcresko ph: 541-346-4779

wcresko@uoregon.edu

URochester ComputationalBiology

Title - Computational Biology - University of Rochester.

Tenure-Track Faculty Position in Interdisciplinary Research in Data Science: Computational Biology and/or Computational Bioengineering The University of Rochester has made data science the centerpiece of its 5-year strategic plan, committing to 20 new faculty lines in diverse areas, a new building, and the establishment of the Institute for Data Science. We are currently seeking applicants for tenure track positions in interdisciplinary research areas within data science. The interdisciplinary search focuses on recruiting candidates who are excited about engaging in collaborative research that connects advances in computational approaches across disciplines, ranging from engineering, to the life, social, and physical sciences. Computational Biology and Computational Bioengineering is one of the four focus areas of this year’s interdisciplinary searches. The ideal candidate(s) will apply computational approaches to analyze large, complex data sets in either computational biology or computational biomedical engineering. Potential areas of research may include functional and evolutionary genomics, proteomics and protein folding, systems biology, multi-scale modeling in bioengineering, or multimodal bio-imaging informatics.

Further information and instructions for this search can be found at:

<http://www.rochester.edu/rocddata/recruit/-interdisciplinary.html> . Applicants at any rank will be considered, and the search will continue until the position is filled. For full consideration, individuals should provide complete applications by January 15, 2014. Applicants should hold a PhD and will be

required to supply a set of refereed scholarly publications, names of references, and research and teaching statements. Applicants will be asked to select a set of disciplines most relevant to their research area.

The University of Rochester is a private, Tier I research institution located in western New York State. It consistently ranks among the top 30 institutions, both public and private, in federal funding for research and development. The university has made substantial investments in computing infrastructure through the Center for Integrated Research Computing (CIRC) and the Health Sciences Center for Computational Innovation (HSCCI). The university includes the Eastman School of Music and the University of Rochester Medical Center, a major medical school, research center, and hospital system. The greater Rochester area is home to over a million people, including 80,000 students who attend the 8 colleges and universities in the region. The University of Rochester has a strong commitment to diversity and actively encourages applications from candidates from groups underrepresented in higher education. The University is an Equal Opportunity Employer.

John (Jack) Werren Nathaniel & Helen Wisch Professor of Biology University of Rochester Rochester, NY 14627 Office: 585-275-3694 Lab: 585-275-3889 Fax: 585-275-2070 web: www.werrenlab.org web:

<http://www.rochester.edu/College/BIO/labs/WerrenLab/index.html> Jack Werren
<werr@mail.rochester.edu>

URochester GlobalBioGeoChemistry

We are looking for people who specifically are looking at the biological (microbial) component on nutrient cycling, and so this involves metagenomics on a large scale.

Title Global BioGeoChemistry - University of Rochester

Tenure-Track Faculty Position in Interdisciplinary Research in Data Science: Global Biogeochemistry

The University of Rochester has made data science the centerpiece of its 5-year strategic plan, committing to 20 new faculty lines in diverse areas, a new building, and the establishment of the Institute for Data Science. We are currently seeking applicants for tenure

track positions in interdisciplinary research areas within data science. The interdisciplinary search focuses on recruiting candidates who are excited about engaging in collaborative research that connects advances in computational approaches across disciplines, including engineering, or the life, social, or physical sciences.

Global Biogeochemistry is a focus area for one of this year's interdisciplinary searches. We seek candidates who integrate biotic (e.g. microbial), chemical, and geological processes for an interdisciplinary research focus on understanding global geochemical cycling processes and/or global climate change. Applicants should have a strong computational and/or modeling component to their research aimed at mining, integrating, and/or interpreting large data sets.

Further information and instructions for this search can be found at:

<http://www.rochester.edu/rocddata/recruit/-interdisciplinary.html> . Applicants at any rank will be considered, and the search will continue until the position is filled. For full consideration, individuals should provide complete applications by January 15, 2014. Applicants should hold a PhD and will be required to supply a set of refereed scholarly publications, names of references, and research and teaching statements. Applicants will be asked to select a set of disciplines most relevant to their research area.

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John (Jack) Werren Nathaniel & Helen Wisch Professor of Biology University of Rochester Rochester, NY 14627 Office: 585-275-3694 Lab: 585-275-3889 Fax: 585-275-2070 web: www.werrenlab.org <http://www.rochester.edu/College/BIO/labs/WerrenLab/-index.html> Jack Werren <werr@mail.rochester.edu>

USalzburg PlantEvolution

The working group Ecology, Biodiversity and Evolution of Plants at the Department of Organismic Biology, University of Salzburg, Austria, invites applications for an Assistant Professor (tenure track) position available from March 1st 2014. The appointment will be made for six years with the possibility of promotion to a permanent position as Associate Professor. The position will focus on Plant Ecology, Biodiversity and Evolution using molecular, experimental, and / or biochemical approaches. The successful applicant should have an excellent research experience and publication record and also experience with teaching and grant acquisition.

The successful applicant is expected to have a PhD in Biology and experience in modern molecular methods (e.g., next generation sequencing technologies) applied to current questions in ecology and/or evolutionary biology. It would also be of advantage to have experience in field/glasshouse experiments in conjunction with genomics (functional adaptive) and / or chemical-ecological analyses. The successful candidate will teach courses (usually in German) in plant ecology, biodiversity and evolution (4 hrs per week and semester) and supervise undergraduate as well as graduate students. She/he is expected and will be assisted to develop new projects and secure funding as independent investigator. Commencing salary (before tax) will be in accordance with a qualification agreement and euro 4.004,70 per month (14 x per annum) [or euro 3.381,70 per month (14 x per annum) in case this agreement is not yet concluded at the time of appointment].

Applications (in German or English) should include a letter of motivation describing the qualifications and research interests, a CV, a list of publications, an overview of teaching experience, and a statement of future research and teaching activities. The documents should be sent to the president of the University of Salzburg, Univ.-Prof. Dr. Heinrich Schmidinger, Serviceeinrichtung Personal, Kapitelgasse 4, 5020 Salzburg, Austria. The closing date for applications is October 23, 2013. For additional information, see www.uni-salzburg.at, Karriere & Jobs, or contact Univ.-Prof. Dr. Hans Peter Comes (peter.comes@sbg.ac.at) or Univ.-Prof. Dr. Stefan Dötterl (stefan.doetterl@sbg.ac.at).

Prof. Dr. Hans Peter Comes Department of Organism-

mic Biology Chair of Plant Evolution, Systematics, and Diversity University of Salzburg Hellbrunnerstrasse 34 A-5020 Salzburg Austria

Phone: ++43 (0)662 8044 5505 FAX: ++43 (0)662 8044 142 e-mail: peter.comes@sbg.ac.at

Comes Hans Peter <Hans-Peter.Comes@sbg.ac.at>

UTexas Austin CuratorInsects

Research Curator of Insects Texas Natural Science Center, University of Texas, Austin

The Texas Natural Science Center (TNSC) seeks a Curator of Insects with a broad research program. The appointment is 100% in the TNSC, which has strong ties to the Department of Integrative Biology. The TNSC collections include insects and cave arthropods, fish, amphibians, reptiles, and genomic resources. A Ph.D. in a natural science field is required by the start date of the appointment. The position is a research staff appointment. The Curator will:

- Develop an externally funded, collection-based research program in biodiversity, including ecology, evolution, and systematics; some emphasis on the Texas insect or cave arthropod fauna is desirable. The research program should be at the forefront of the field and complement existing strengths in Department of Integrative Biology. With approval of the faculty, the candidate may be admitted to the Graduate Faculty (non-tenure track) and supervise graduate students in the Ecology, Evolution, and Behavior Graduate program. The candidate will contribute to interdisciplinary initiatives of the College of Natural Sciences.

- Oversee the accessioning, georeferencing, and general curation of the collections, including securing external support, development and maintenance of electronic databases, processing of loans, compliance with regulations and permits, and pest management. It is highly desirable that the candidate has substantial curatorial experience with insect and general arthropod collections in a natural history museum setting. Required curatorial skills include attention to detail, management, communication, and professional interaction with the University, public, governmental and research communities.

- Manage and guide the growth of the collections and associated resources including archives, databases, and genomic resources.

-Engage in the teaching mission of the University. Although the appointment as Curator within the TNSC is 100%, the candidate is encouraged to teach courses in the Department of Integrative Biology (which may include Entomology and Field Entomology) and to enhance academic relationships with the Department.

-Contribute to exhibits, outreach, and informal education initiatives of the TNSC.

-Contribute to service activities at the University, state, and national level.

Applicants should provide one pdf file that includes the following: (1) curriculum vitae; (2) pdfs of three representative publications; (3) statement that addresses current and future research, curatorial experience, and teaching experience and philosophy; and (4) contact information for three references. The pdf should be emailed to Margaret Fischer, mfischer@austin.utexas.edu.

Review of applications will begin on 1 December 2013 and continue until a suitable applicant is identified. Contact David Cannatella (catfish@austin.utexas.edu) for further information.

The University of Texas at Austin is an Equal Opportunity/Affirmative Action Employer. This is a security-sensitive position. A criminal history background check will be required for finalist(s) under consideration for this position.

David Cannatella Professor and Curator Dept. Integrative Biology and Texas Natural Science Center University of Texas Austin, Texas 78712

David Cannatella Professor, Integrative Biology and Curator of Herpetology Texas Natural Science Center 1 University Station C0990 University of Texas Austin, Texas 78712 www.cannatellalab.org 512-232-4862 (office; voicemail)

"Cannatella, David" <catfish@austin.utexas.edu>

UToronto Scarborough ConservationBiol

Professor in Ecology and Conservation Biology University of Toronto Scarborough

The Department of Biological Sciences, University of Toronto Scarborough invites applications for a tenured appointment at the rank of Assistant, Associate

or Full Professor in the areas of Ecology or Conservation Biology. The appointment will begin on July 1, 2014.

The successful applicant must have an excellent publication record, evidence of strong potential to attain a sustained and externally funded research program, and a commitment to graduate student supervision and training. Candidates with an active field program in terrestrial ecology are especially encouraged to apply. The successful candidate will join an expanding and dynamic group of faculty working in the areas of Ecology and Environmental Science within the department and the wider campus, and contribute to the delivery of a Professional Master's program in Conservation and Biodiversity. The successful candidate will demonstrate excellence in research and have a strong commitment to excellence in teaching at both the undergraduate and graduate level.

The University of Toronto is an international leader in biological research and education and the Department of Biological Sciences enjoys strong ties to other units within the University. The successful candidate must have a PhD in Ecology or Conservation Biology or close equivalent. They will be expected to participate actively in the Graduate Department of Ecology and Evolutionary Biology at the University of Toronto (<http://www.eeb.utoronto.ca/>), and to maintain an active research program centered at the University of Toronto Scarborough. Additional information about the University of Toronto's Koffler Scientific Reserve (an internationally recognized site for research and education in biodiversity, ecology and conservation biology) can be found at <http://ksr.utoronto.ca/>. Also, lands neighbouring the University of Toronto Scarborough in the Rouge Valley of eastern Toronto have now been designated as Canada's first National Urban Park (<http://bit.ly/OMSt3K>), providing exciting opportunities for applied conservation research. Salary will be commensurate with qualifications and experience.

All qualified candidates are invited to apply at <https://utoronto.taleo.net/careersection/10050/-jobdetail.ftl?job=1301570>. Applications must include a CV, statements of research and teaching interests and three representative publications. The UofT application system can accommodate up to five attachments (10 MB) per candidate profile; please combine attachments into one or two files in PDF/MS Word format. Submission guidelines can be found at <http://uoft.me/how-to-apply>. For inquiries, please contact biologygeneral@utsc.utoronto.ca.

Applicants should also arrange that letters of reference from at least three referees familiar with the

candidate¹'s research and teaching be emailed directly to: biologygeneral@utsc.utoronto.ca. Please refer to job number 1301570.

Applications lacking reference letters will not be considered. All materials must be received by December 15, 2013.

Further information on the research and teaching activities of the department can be found at <http://www.utsc.utoronto.ca/~biosci>. The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from visible minority group members, women, Aboriginal persons, persons with disabilities, members of sexual minority groups, and others who may contribute to the further diversification of ideas. The University is responsive to the needs of dual career couples. The University of Toronto offers the opportunity to conduct research, teach, and live in one of the most diverse cities in the world. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

Jessica Barnett <jbarnett@utsc.utoronto.ca>

UWisconsin-Whitewater AquaticEcosystem

Assistant Professor - Ecosystem Level Aquatic Biologist/Ecologist

University of Wisconsin-Whitewater

The Department of Biological Sciences at the University of Wisconsin-Whitewater invites applications for an appointment as full time tenure-track assistant professor with primary teaching responsibility in Ecology and Environmental Science. Other teaching responsibilities include support of department general studies programs and undergraduate major courses including at least one of the following: Introductory Biology I, II, Ecology and Society, and Field Experience. Individuals with research interests in nutrient flow, nutrient dynamics, algal or microbial community/ecosystem processes are especially encouraged to apply. Experience in interacting with a diverse population of students and engagement of undergraduate students in research while pursuing extramural research funding are expected. Please visit our website at <http://www.uww.edu/cls/-biology>. Ph.D. in a biological science is required. The successful candidate must demonstrate his/her poten-

tial to be an outstanding teacher, productive scholar, and active contributor of professional, university and community service. Salary is competitive and negotiable. Starting date is August 20, 2014. Full details are available at http://www.uww.edu/employment/jobs/-Ecosystem_Level_Aqua.html. Founded in 1868, UW-Whitewater is a premier public regional university with an enrollment of over 12,000 students in 50 undergraduate majors and 11 master's degree programs. It offers high-quality career-oriented programs integrated with a model general education curriculum. UW-Whitewater is part of the 26-campus University of Wisconsin System. Located in a community of 14,000 residents near the scenic Kettle Moraine State Forest in southeastern Wisconsin, Whitewater is within convenient driving distance to the metropolitan areas of Milwaukee, Madison and Chicago. Visit our website at <http://www.uww.edu/>. A complete application packet consists of a letter of application, curriculum vitae, statement of teaching philosophy and interests, statement of research interests, copies of all transcripts, and three current letters of recommendation. Interested persons should apply in writing to Dr. Bruce Eshelman, Department of Biological Sciences, University of Wisconsin-Whitewater, Whitewater, WI 53190. Telephone: (262) 472-5136. Fax: (262) 472-5633. Email: eshelmab@uww.edu

Applications received by 12/8/13 are ensured review, position open until filled. The University of Wisconsin-Whitewater is an Equal Opportunity and Affirmative Action Employer, and actively seeks and encourages applications from women, members of minority groups, persons with disabilities, and all veterans. Names of applicants may be disclosed unless requested otherwise. Names of finalists will be released.

tipperyn@uww.edu

UWisconsin Madison EvolutionaryBiol

Tenure Track Faculty Position in Evolutionary Biology

The Department of Zoology, University of Wisconsin-Madison, invites applications for a tenure-track position at the Assistant Professor level.

We seek candidates in any area of Evolutionary Biology including, but not limited to, Evolution of Development, Evolutionary Ecology, Population Genetics, Evo-

lutionary Genomics, or Evolutionary Physiology. The candidate's research program may focus on any taxon or domain of life, including animals, plants, protists, fungi, bacteria, or archaea.

Requirements include a Ph.D. and post-doctoral experience in evolutionary biology and demonstrated research accomplishments. Successful candidates will be expected to develop an innovative and independent extramurally funded research program, execute an effective undergraduate and graduate teaching program, build collaborative relationships in research and instructional programs, and contribute to service and outreach functions of the Department. For additional information please refer to our departmental website at: <http://www.wisc.edu/zoology>. HOW TO APPLY: please email a single PDF file containing a cover letter, complete curriculum vitae, statements of research and teaching interests, three representative publications, and full contact information for 3 referees to the Evolutionary Search Committee via email to: evolutionarybio@zoology.wisc.edu. Only applications submitted by email will be accepted.

Questions should be directed to: Evolutionary Biology Search Committee at evolutionarybio@zoology.wisc.edu.

Deadline for full consideration: December 1, 2013

The University of Wisconsin has an active and vibrant research community with ~37 biologically-related departments and several biological research institutes, such as the Wisconsin Institutes for Discovery (<http://discovery.wisc.edu/discovery>). Faculty members conducting research in Evolutionary Biology across campus are listed here: <http://www.evolution.wisc.edu/>. The University of Wisconsin is an Equal Opportunity/Affirmative Action Employer, and women and underrepresented minorities are encouraged to apply. A criminal background check will be required prior to appointment. Unless confidentiality is requested in writing information regarding applicants must be released upon request. Finalists cannot be guaranteed confidentiality.

Carol Eunmi Lee, Ph.D. Professor Center of Rapid Evolution (CORE) 430 Lincoln Drive, Birge Hall University of Wisconsin Madison, WI 53706 carollee@wisc.edu

<https://mywebspace.wisc.edu/carollee/web/Lee/Lee.html> Carol Eunmi Lee <carollee@wisc.edu>

UWisconsin Madison EvolutionaryBiol ExtDeadline

EXTENDED DEADLINE: Tenure Track Faculty Position in Evolutionary Biology

The Department of Zoology, University of Wisconsin-Madison, invites applications for a tenure-track position at the Assistant Professor level.

We seek candidates in any area of Evolutionary Biology including, but not limited to, Evolution of Development, Evolutionary Ecology, Population Genetics, Evolutionary Genomics, or Evolutionary Physiology. The candidate's research program may focus on any taxon or domain of life, including animals, plants, protists, fungi, bacteria, or archaea.

Requirements include a Ph.D. and post-doctoral experience in evolutionary biology and demonstrated research accomplishments. Successful candidates will be expected to develop an innovative and independent extramurally funded research program, execute an effective undergraduate and graduate teaching program, build collaborative relationships in research and instructional programs, and contribute to service and outreach functions of the Department. For additional information please refer to our departmental website at: <http://www.wisc.edu/zoology>. HOW TO APPLY: please email a single PDF file containing a cover letter, complete curriculum vitae, statements of research and teaching interests, three representative publications, and full contact information for 3 referees to the Evolutionary Search Committee via email to: evolutionarybio@zoology.wisc.edu. Only applications submitted by email will be accepted.

Questions should be directed to: Evolutionary Biology Search Committee at evolutionarybio@zoology.wisc.edu.

EXTENDED DEADLINE for full consideration: December 15, 2013

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Carol Eunmi Lee, Ph.D. Professor Center of Rapid Evolution (CORE) 430 Lincoln Drive, Birge Hall University of Wisconsin Madison, WI 53706 carollee@wisc.edu

<https://mywebspace.wisc.edu/carollee/web/Lee/-Lee.html> carollee@wisc.edu

UdeConcepcion Chile 2 Systematics

Two Tenure Track Positions/ Systematics and Biodiversity.

Department of Zoology/ U. de Concepción/ Chile.

Description: The Department of Zoology at Universidad de Concepción, Chile, invites applications for two tenure-track faculty positions at the Assistant Professor level to strengthen the areas of Systematics and Biodiversity. Both positions are available starting March 1th, 2014. The ideal candidate for the first position has broad expertise in Entomology; the ideal candidate for the second position has broad expertise on Marine Invertebrates. We welcome applications from candidates employing integrative approaches that address relevant scientific questions across multiple disciplines, such as taxonomy, systematics, genetics, evolution, conservation and biogeography.

Qualifications: Ph.D. degree in biology or related field, postdoctoral experience and a record of academic accomplishments. These may include, but are not limited to, research experience demonstrable through publications and secured extramural funding, and courses implemented in his/her area of expertise. Spanish fluency is desirable.

Responsibilities: Develop an integrative research program in Entomology or Marine Invertebrates while securing funding from government and other agencies in basic and applied science; teach a course in his/her area of expertise and be committed to both undergraduate and graduate education; and mentor graduate and undergraduate students. Interactions with other research groups within and outside the Department are encouraged.

Applicants should send a cover letter, curriculum vitae, statement of research interest, statement of teaching philosophy, and arrange two recommendation letters to be sent to: Universidad de Concepción, Dirección de Personal, Casilla 160-C, Correo 3, Universidad de Concepción, Concepción, Chile. Inquiries regarding this position should be directed at evaluating.committee@gmail.com

Deadline for applications is January 10th, 2014. Additional information about the Department of Zoology and about University of Concepcion can be found on the websites: <http://www.natura.udec.cl/departamentos/zoologia/> and <http://www.udec.cl/pexternoe/> Dr. Pedro F. Victoriano Laboratorio de Microevolución y Ecología de Vertebrados Depto. de Zoología Facultad de Cs. Naturales y Oceanográficas. Universidad de Concepción. Chile. pvictori@gmail.com

Pedro Victoriano <pvictori@gmail.com>

WageningenU InsectEvolutionComparativeGenomics

Assistant Professor Biosystematics-Insect Evolution and Comparative Genomics Location: Wageningen University, The Netherlands

Function The Wageningen UR Biosystematics chair group offers a tenure-track Assistant Professor position in the field of Insect Evolution and Comparative Genomics. In the Biosystematics group, we strive to understand the evolutionary patterns and processes giving rise to the amazing 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 comparative genomics, phylogenetics and/or evo-devo. 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 adaptive trait evolution and species radiations of insects and plants. You will be involved in teaching bachelor courses related to insect identification, phylogenetics and biodiversity within the Netherlands and Europe. Also, you will participate in teaching Advanced Courses in Genomics and Phylogenetics. You will develop lecture notes, practical exercises and background reading

materials. You will supervise students for MSc projects and co-supervise PhD students.

Function Requirements You have a PhD in Genomics, Systematics, Entomology, or another discipline that is appropriate. You have proven skills in comparative methods and a strong background in genomics, entomology, phylogenetics and/or evo-devo. A focus on broad insect phylogenetic groups, rather than on a single (model) organism, would be preferred. 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.

Working conditions We offer you as a talented scientist a Tenure Track Assistant Professor Position. From the position, you can grow into a Professor holding a Personal Chair. Of course training and coaching are provided and interdisciplinary (international) 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: from euro 3.259 to euro 4.462 based on full time employment and dependent on expertise and experience. Location: Wageningen.

Contact 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. More information about Tenure Track within Wageningen UR look at www.wur.nl/UK/work. **Organization** The chair Biosystematics is one of the 17 chairs in the Department of Plant Sciences, Wageningen University and Research Centre and member of the Graduate School 'Experimental Plant Sciences' (EPS). Wageningen University was ranked number one in Agriculture in the 2013 NTU Rankings. This chair is responsible for academic education and research on biodiversity, phylogenetics and comparative genomics.

Research in the Biosystematics Group is focussed 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, discussion groups, etc. For this position the courses "Biodiversity of the

Netherlands" and "Webs of Terrestrial Biodiversity" courses are particularly relevant.

The group combines a strong international profile with a close link with National and European partners, including the Naturalis Biodiversity Center. Our website provides a good overview of our activities worldwide: <http://www.bis.wur.nl/UK> . eric.schranz@wur.nl

WageningenU InsectEvolutionComparativeGenomicsupdate

Assistant Professor Biosystematics Insect Evolution and Comparative Genomics 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 Evolution and Comparative Genomics. In the Biosystematics group, we strive to understand the evolutionary patterns and processes giving rise to the amazing 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 comparative genomics, phylogenetics and/or evo-devo. 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 adaptive trait evolution and species radiations of insects and plants. You will be involved in teaching bachelor courses related to insect identification, phylogenetics and biodiversity within the Netherlands and Europe. Also, you will participate in teaching Advanced Courses in Genomics and Phylogenetics. You will develop lecture notes, practical exercises and background reading materials. You will supervise students for MSc projects and co-supervise PhD students.

We ask You have a PhD in Genomics, Systematics, Entomology, or another discipline that is appropriate. You have proven skills in comparative methods and a strong background in genomics, entomology, phylogenetics and/or evo-devo. A focus on broad insect phylogenetic groups, rather than on a single (model) organism, would be preferred. You have a proven record of very good/excellent publications and a wish to work closely with others in the team. You have good commu-

nication 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 you as a talented scientist a challenging Tenure Track career trajectory. From the position of Assistant Professor you can grow into a Professor holding a Personal Chair. Of course training and coaching are provided and interdisciplinary (international) cooperation stimulated. You will also be given the chance to build up your own research line. We anticipate approximately 25% teaching to 75% research. We offer you a temporary contract for 38 hours per week, which can lead to a permanent employment contract. Gross salary per month: from €3,259 to €4,462 based on fulltime employment and dependent on the number of years of experience. For more information see www.wur.nl/UK/work.

Your application can be submitted using the following site: <http://www.wageningenur.nl/en/Jobs/Vacancies/Show/Assistant-Professor-BiosystematicsInsect-Evolution-and-Comparative-Genomics.htm> by following the “click here to respond” link. Please upload a Cover Letter, your CV and a research and teaching statement (using the Other upload link). Ideally, the candidate would begin by May 2014.

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. For more information about Tenure Track within Wageningen UR look at

www.wur.nl/UK/work.

We are The chair Biosystematics is one of the 17 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 2013 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 of domestic plants 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, fieldwork, discussion groups, etc. For this position the courses “Biodiversity of the Netherlands” and “Webs of Terrestrial Biodiversity” courses are particularly relevant. The group combines a strong international

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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>

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CNRS Moulis BlueTits BehaviourEvolution

Research assistantship - Social behavior and cognition in Blue tits

Enrico Sorato and Alexis Chaine (CNRS, Moulis, France)

Opportunity available for a motivated student to participate in an ongoing project investigating social behavior and cognition in captive blue tits *Cyanistes caeruleus*.

This is a short position, starting in December 2013 and ending February/March 2014.

The assistant is expected to help with caring of birds in the aviaries, perform experiments with captive tits (e.g cognitive trials, tests of dominance at feeders, mate choice experiments), and to assist with capturing of birds in the field.

Candidates will hold, or be pursuing, a relevant degree in behavioral ecology, and should have experience with bird handling and running of experiments. Good organizational skills, as well as ability of working both in a team and independently, area highly desired.

We can cover accommodation; however assistants will have to provide their own food and cover their travel expenses.

Applicants should send a cover letter and CV, including names and e-mail addresses of three potential referees, by 30 November, 2013. For further information and applications, please contact Enrico Sorato: sorato@dr14.cnrs.fr

enrico sorato

enrico.srt@gmail.com

ConGenOmics TravelGrants

TravelGrants - ConservationGenomics

Dear colleagues,

The European Research Networking Programme "ConGenOmics", supported by the European Science

Foundation, invites applications for travel grants intended to foster collaborations between European researchers working on topics related to conservation genomics.

We will support the exchange of researchers, ideally targeting at early careers researchers such as PhD students and postdocs. We invite applications for short visits (up to 2 weeks) to foster scientific interactions between institutions from different countries. The planned visits should be directly relevant to the scope of the ConGenOmics network programme, which include topics such as:

- Development and transfer of genomic knowledge and approaches in a conservation context
- Experimental study of the (genomic) mechanisms behind important biological processes of relevance for conservation
- Application and development of data handling and processing strategies in conservation genomics
- Application of community and metagenomics in conservation biological context

After assessment of scientific merit and relevance to the ConGenOmics network, priority will be given to applications in the following order:

- knowledge exchange between contributing countries of the ESF ConGenOmics network
- knowledge exchange between a contributing country and a non- contributing ESF member country or the associated USA Ecogenomics network Ecological Genomics Institute (EGI) at Kansas State University (KSU)
- knowledge exchange between a contributing country and a non-ESF member country in Europe
- knowledge exchange between a contributing country and any country not covered by 1-3

Further information and instructions on how to apply are available at

<http://www.ru.nl/congenomics/grants-application/-travel-grants/> and

<http://www.ru.nl/congenomics/grants-application/-travel-grants/short-visits/> Deadline for submission: 10 December 2013

philippine.vergeer@wur.nl

HarvardU VisitingFellow ConservationBiol

The Sarah and Daniel Hrdy Fellowship in Conservation Biology Department of Organismic and Evolutionary Biology Harvard University

Application deadline: January 1, 2013

The Department of Organismic and Evolutionary Biology at Harvard University invites applications or nominations for the Sarah and Daniel Hrdy Visiting Fellowship in Conservation Biology. The Hrdy Fellowship is open to faculty at any rank, and supports visits of either one or two semesters.

The Hrdy Fellowship is awarded to an individual who will engage in scientific study in the Department of Organismic and Evolutionary Biology. Recipients of this fellowship are expected to have a strong and transformative effect on the study of conservation biology at Harvard University. The research of previous Hrdy Fellows has included conservation paleobiology, marine evolution and conservation, conservation biology of amphibians and reptiles, and the impact of human activities on the environment. Information about previous fellows is available here: [insert URL].

Eligibility Applications are sought from faculty whose research focuses on contemporary issues in conservation biology. Applicants should be well positioned to conduct original, independent research and to publish their findings in peer-reviewed publications. Applicants are expected to be fluent in English and have a record of effective teaching.

Fellowship Details The Hrdy Fellowship award provides a stipend of up to \$80,000 per year, depending on professional status, need, and duration of the fellowship. Modest support is also available for research and travel costs. Hrdy Fellows are ordinarily employees of Harvard University during their tenure and are eligible for health insurance benefits. Fellows must be in residence for the full term of the Fellowship.

Primarily, the Hrdy Fellow is expected to engage in leading-edge research, where possible in collaboration with members of the Harvard community. Additional responsibilities include a public lecture by the Fellow in any area of conservation biology. Finally, the Fellow is required to teach a one-semester, seminar-style course aimed at upper-level undergraduates (for more infor-

mation on teaching, contact OEB Chair John Wakeley, at wakeley@fas.harvard.edu).

Application Process Applicants should contact a faculty sponsor with whom they will collaborate, before applying. Interested individuals with general questions about the program may contact Chris Preheim, Academic Programs Coordinator, at cpreheim@oeb.harvard.edu.

Fellowships are awarded through a competitive review process. To be considered for a fellowship, applicants should submit a concise proposal in PDF format that includes the following:

- * Cover letter. The cover letter should clearly state (i) the applicant's interest in the fellowship; (ii) the length of the term desired by the applicant and potential start-date; and (iii) the applicant's contact information.

- * Research Statement. The statement should be no longer than 4 pages, single-spaced, and should clearly describe the research project. The statement should detail: (i) the nature and scope of the proposed research project, (ii) the approach and methods to be employed, (iii) how Harvard resources would be utilized, (iv) all laboratory and equipment requirements, and (v) how the project will advance knowledge about conservation biology.

- * Research Budget. A modest level of funding is available for research and travel costs. Applicants should submit a simple, one-page budget which itemizes the research and travel costs associated with the proposed project.

- * Curriculum vitae.

- * Three letters of recommendation. Letters of recommendation should clearly indicate the name, title, mailing address, phone, and email address of the person providing the recommendation. Letters may be sent under separate cover, provided they meet the deadline.

All four components should be submitted to <http://academicpositions.harvard.edu/postings/5051>. The Sarah and Daniel Hrdy Fellowship in Conservation Biology is made possible by the generosity of Sarah and Daniel Hrdy. Harvard University is an Affirmative Action/Equal Opportunity Employer and requires pre-employment reference and background screening.

Christopher Preheim Academic Programs Coordinator
Harvard University Dept. of Organismic and Evolutionary Biology 617-384-9271

"Preheim, Christopher" <cpreheim@oeb.harvard.edu>

**JEvolBiol EurSocEvolBiol
GraduateStudentPrize**

Subject: Journal of Evolutionary Biology; Graduate student prize starts 2014

The European Society for Evolutionary Biology & the Journal of Evolutionary Biology editorial team have decided to instigate an annual prize for the best paper by a graduate student published in the journal in a calendar year. This is aimed at recognising outstanding graduate research, so the paper should primarily arise from a significant piece of work which was included in a Masters or PhD thesis. The prize will be conferred at the nearest ESEB Congress and announced in the journal and online.

The award will include an invitation to attend the Congress (fees and travel included), and a cash prize of 250. We expect the corresponding or senior (first) author to be the graduate student primarily responsible for the research and paper writing, and the supervisor will be asked to confirm this for shortlisted papers. We expect papers to be submitted at the latest within five years of starting a PhD project. When papers are accepted we will ask if the paper is eligible to be considered for the award, and that all the authors agree to this. The prize will be selected by the Deciding Editors of the journal, and we expect the first award to be for a paper published in 2014.

If you have any queries about this, please address them to the JEB team at jebeditorial@eseb.org

Mike Ritchie Centre for Biological Diversity, School of Biology, University of St Andrews, Fife. Scotland KY16 9TH UK Phone: 0 (44 outside UK) 1334 463495
Some websites: Lab: <http://biology.st-andrews.ac.uk/~ritchielab/> Uni: <http://www.st-andrews.ac.uk/~profile/mgr> Google: <http://scholar.google.co.uk/citations?user=JSkvwMsAAAAJ&hl> CBD: <http://biodiversity.st-andrews.ac.uk/> Michael Ritchie
<mgr@st-andrews.ac.uk>

Re: Location for future joint annual meetings of the ASN/SSB/SSE (aka the 'Evolution meeting')

As the new Chief Meeting Organizer responsible for Evolution 2016 and beyond, I am soliciting suggestions as to potential locations for future meetings, with particular emphasis on 2016 as time is getting tight. These need not be major cities, but preferred locations will:

- Be relatively easy to travel to from within N. America
- Have a meeting venue that can handle 2000+ people, including 12+ good sized seminar rooms and a large plenary hall, that are in VERY CLOSE PROXIMITY (i.e. no more running between buildings). This will almost certainly be a conference center as opposed to a university.
- Have a meeting venue that is centrally located such that attendees have access to a good selection of local restaurants/pubs/bars
- Have a range of accommodation options including lower-cost student residences
- Be somewhere interesting to visit (think night life, cultural activities, natural history)

Portland is a good example of such a location and we are considering a return visit there in the future (but not in 2016).

Suggesting a potential location does not, in any way, commit you to being involved in organizing a meeting should your suggestion ultimately be selected. I simply want to know about places I otherwise might not consider. Suggestions should be sent to evolution.meetings@gmail.com and should include the location along with any information you have concerning the specific venue (i.e. convention center), as well any details pertinent to the above desired qualities.

The ASN/SSB/SSE appreciate your help.

Howard Rundle

Howard D. Rundle, Associate Professor Department of Biology, 30 Marie-Curie Priv. University of Ottawa, Ottawa, ON, K1N 6N5, CANADA

Ph: +1 613-562-5800 x2835; Fax: +1 613-562-5486; Skype: [howardrundle](https://www.skype.com/people/howardrundle) <http://www.science.uottawa.ca/~hrund050>
howard.rundle@uottawa.ca

MaxPlanckInstOrnithology VolAvianTech

(1) Practical training at the Max Planck Institute for Ornithology, hand- raising of ravens (*Corvus corax*)

We are looking for enthusiastic people who help to hand raise ravens (*Corvus corax*) from 15.04. - 15.06.2014 and 05.06. - 05.08.2014 at the Max Planck Institute for Ornithology, Seewiesen, Germany.

We seek highly motivated, organized and reliable individuals who are interested in corvid behaviour, their training and their development, like to interact with birds and are able to monitor their behavior.

We offer free accommodation at our guesthouse for the whole period and the opportunity to work at one of Europe's leading institutes for bird research. Applications should include a CV, a letter of motivation and contact details of three referees.

For further information please contact:

Miriam Sima (Primary contact) msima@orn.mpg.de

or

Dr. Simone Pika (Principal Investigator) Max-Planck-Institute for Ornithology Humboldt Research Group \$B!H(BComparative Gestural Signalling\$B!I(B Eberhard-Gwinner-Str. Geesehouse 82319 Seewiesen, Germany E-mail: spika@orn.mpg.de Webpage: www.orn.mpg.de/cgs "Sima, Miriam" <msima@orn.mpg.de>

NewPhytologist TansleyMedal PlantEvolution

Subject: New Phytologist Tansley Medal

The New Phytologist Tansley Medal is awarded annually in recognition of an outstanding contribution to research in plant science by an individual in the early stages of their career (student and post-doctoral researchers with up to five years' experience since gaining/defending their PhD are eligible). The winner will receive a prize of £2000 (GBP) and will author a

Minireview that will be published in *New Phytologist*, accompanied by a comment from the Editor-in-Chief and Tansley reviews Editor. The application deadline for this year's Medal is 15 December 2013.

New Phytologist highlights the importance of plant evolution by dedicating one of its four key sections to this research area, covering studies from the molecular to ecological level. Last year's winner, Robin Hopkins, is a plant evolutionary biologist from the University of Texas, Austin, USA whose research focuses on understanding the role of natural selection during the process of species formation. Read Robin's winning Minireview 'Reinforcement in plants' here: <http://onlinelibrary.wiley.com/doi/10.1111/nph.12119/full> . It's incredibly important to nurture the next generation of plant scientists, and the Tansley Medal offers a great opportunity for an outstanding scientist in the early stages of his or her career to really make an impact. Please do spread the word to anyone you know who might be eligible. If you have any queries regarding the medal or the submission process please do not hesitate to get in touch. More details on the Medal can be found at: <http://www.newphytologist.org/tansleymedal> . "Panagopoulos, Michael" <m.panagopoulos@lancaster.ac.uk>

Phyloseminar DanielKsepka Dec3

Daniel Ksepka (NESCENT) Including Fossil Taxa in Phylogenies: Advances and Issues December 3, 2013 10:00 AM PT

The fossil record offers a rich source of macroevolutionary data. Fossils can reveal transitional forms that could not be predicted from extant taxa alone, reveal unexpected biogeographic patterns, and provide temporal information crucial for inferring rates of evolution and correlations between evolution and abiotic events. At the same time, including fossil taxa in phylogenetic analyses presents many challenges. Currently, there are a wide variety of methods for including fossil data in phylogenetic analyses ranging from indirect use of fossil ages to inform divergence dates to simultaneous analyses of fossil and extant taxa under various optimality criteria and with varying levels of constraints. One important consideration remains that fossils typically provide only morphological data, which can lead to problems related to missing data and potential violation of common assumptions for model-based phy-

logeny inference methods designed primarily for molecular sequence data. Morphological character data are typically harvested from fossils taxa not at random, but with an intentional bias towards parsimony-informative characters (with apomorphies omitted from matrices). Combined with issues related to sparse codings in large combined matrices, care must be taken to avoid spurious inferences.

See <http://phyloseminar.org/> for more details.

ematsen@gmail.com

Phyloseminar TracyHeath Nov14

We've been a little slow this year getting talks moving because we have been revamping <http://phyloseminar.org/> supported by a generous grant from the Society of Systematic Biologists. Many of the old talks are now on YouTube. Note that we will be connecting in the future via G+.

We are proud to start our next series on fossils and phylogenies with a talk from Tracy Heath:

Tracy Heath The Fossilized Birth-Death Process: A Coherent Model of Fossil Calibration for Divergence Time Estimation November 14, 2013 10:00 AM PT

(please visit the website for the time in your locale!)

Accurate estimates of absolute node ages are critical for addressing a wide range of questions in evolutionary biology. Because molecular sequence data are not informative on absolute time, external data-most commonly fossil age estimates-are required to calibrate estimates of species divergence times. For Bayesian divergence-time methods, the common practice for calibration using fossil information involves placing arbitrarily-chosen and parameterized parametric distributions on internal nodes, often disregarding most of the information in the fossil record. The 'fossilized birth-death' (FBD) process is a model for calibrating divergence-time estimates in a Bayesian framework, explicitly acknowledging that extant species and fossils are observations from the same macroevolutionary process. Under this model, absolute node age estimates are calibrated by a single diversification model and arbitrary calibration densities are not necessary. Moreover, the FBD model allows for inclusion of all available fossils. We performed analyses of simulated data and show that node-age estimation under the FBD model results in accurate estimates of species divergence times with re-

alistic measures of statistical uncertainty, overcoming major limitations of standard divergence time estimation methods.

Frederick "Erick" Matsen, Assistant Member Fred Hutchinson Cancer Research Center <http://matsen.fhcrc.org/> ematsen@gmail.com

Royal Society

ALL ROYAL SOCIETY CONTENT - BACK TO 1665 - FREELY AVAILABLE TO ACCESS ONLINE UNTIL 30TH NOVEMBER 2013!

Royal Society Publishing has just published Female competition and aggression, compiled and edited by Anne Campbell and Paula Stockley. See <http://bit.ly/17NTmS1> for further details or you can go straight to the issue contents at <http://rstb.royalsocietypublishing.org/content/368/1631.toc> which is FREE to access online - along with ALL Royal Society content until 30th November 2013. A print version is also available at the special price of Â£35.00. You can order online via the above web page (enter special code TB 1631 when prompted) or, alternatively, you can contact debbie.vaughan@royalsociety.org

Felicity Davie Royal Society Publishing

T +44 20 7451 2647

The Royal Society 6-9 Carlton House Terrace London SW1Y 5AG royalsocietypublishing.org

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This email is sent on behalf of The Royal Society, 6-9 Carlton House Terrace, London SW1Y 5AG, United Kingdom.

Felicity.Davie@royalsociety.org

Felicity.Davie@royalsociety.org

Royal Society2

Royal Society Publishing has just published Molecular and functional evolution of transcriptional enhancers in animals, compiled and edited by Marcello Rubinstein. See <http://bit.ly/18KaVSk> for

further details or you can go straight to the issue contents at <http://rstb.royalsocietypublishing.org/content/368/1632.toc> which is FREE to access online - along with ALL Royal Society content until 30th November 2013. A print version is also available at the special price of £35.00. You can order online via the above web page (enter special code TB 1632 when prompted) or, alternatively, you can contact debbie.vaughan@royalsociety.org

Felicity Davie Royal Society Publishing

T +44 20 7451 2647

The Royal Society 6-9 Carlton House Terrace London SW1Y 5AG royalsocietypublishing.org

Registered Charity No 207043 Registered Charity No 207043

Science Visualization Initiative

I am writing to you regarding an exciting Kickstarter campaign. It could be an important new front in the battle to improve understanding about evolution in our schools. If only 3,800 people donate \$10 each, we'll reach our crowdfunding goal. We know there are a lot more people out there than that who would like to see the influence of creationism diminish. The difficulty is reaching all of these people in a short time. We hope you will support the campaign and help spread the word. We've got a long way to go to reach our goal and need your help. You can view the campaign here:

<http://www.kickstarter.com/projects/920123593/-darwins-treasure-chest-3d-printable-learning-model>

An image of our latest model is attached (Note: It has not been through the accuracy check yet!)

Perhaps your list server subscribers would be interested.

Background: Darwin's Treasure Chest is the premier project of the Science Visualization Initiative, a new not-for-profit organization that seeks to establish collaborative efforts between scientists, technicians, artists, and media experts to improve science literacy through better science communication.

Darwin's Treasure Chest makes digital models of prehistoric creatures that teachers, parents, and students can download from the internet for 3D printing, along with educational content. These tools are particularly geared to K-12 education and to provide teachers with fun new ways to teach about evolution and climate sci-

ence, two topics that are fundamental for improving science literacy. The first fundraising effort of our non-profit is the Darwin's Treasure Chest Kickstarter campaign which will help off-set the costs of creating the models.

I am leading the Darwin's Treasure Chest project. My background is that I was chief art director and senior editor for paleontology at National Geographic Magazine for many years. The project will include the collaboration of many researchers, but our principal advisor is Dr. Kevin Padian, a well-known evolutionary biologist at UC Berkeley.

Because of the "high-tech" nature of the project, it will also help students learn skills that will be useful in the technology-driven job market of the future through hands-on project experience. This type of project is also well-suited to kinesthetic learners-students who learn better by doing and making things-as well as people who are visually impaired.

Please let me know if you would be able to report on and share information with your members about the Science Visualization Initiative and Darwin's Treasure Chest. I believe that the topic-PREHISTORIC CREATURES AND 3D PRINTING TAKE ON CREATIONISM-might be of interest to them.

Please find the full press release here http://sciencevisualization.org/wp-content/uploads/2013/10/Darwin%E2%80%99s-Treasure-Chest_PR10.31images.pdf For more about the Science Visualization Initiative <http://sciencevisualization.org/> Thank you, Chris Sloan Co-founder Science Visualization Initiative

Chris Sloan Science Visualization Initiative +1 301.919.3494 chris.sloan@sciencevisualization.org
www.sciencevisualization.org
chris.sloan@sciencevisualization.org

Software Uncertain Paternity Coancestry 2 0

Dear EvolDir members,

I have just released a new version of the application called Uncertain_Paternity.Coancestry (UPC 2.0).

This programme is intended to calculate the coancestry matrix for a pedigree when uncertainty about the parents of some individuals exists. We may have individu-

als with more than one possible father and/or mother. Then, probability of receiving an allele from these potential parents has to be divided between them, following the approach presented in Pérez-Enciso (1995). In this new release not all candidates are assumed to be equally probable but the probability of being the true parent can be provided by the user.

The software also provides a simple pedigree analysis that could be restricted to a portion of the genealogy (what will be called the 'cohort of interest'). Average inbreeding and coancestry, founder contributions, effective number of founder and non-founders as well as founder genome equivalents will be calculated, although the interpretation of such values is not clear when uncertain parentage exists. Realise that although averages will be calculated for the indicated individuals (the cohort of interest), particular values account for the whole pedigree.

Software can be freely downloaded from my personal web page (see address below). Hope somebody find it useful.

Best regards.

Jesús Fernández Martín Departamento de Mejora Genética Animal 34-91 3471487 Instituto Nacional de Investigación y 34-91 3478743 (FAX) Tecnología Agraria y Alimentaria (INIA) jmj@inia.es Crta. A Coruña Km. 7,5 28040 Madrid (SPAIN)

<http://dl.dropbox.com/u/5714008/Fernandez.htm>

Jesús Fernández Martín <jmj@inia.es>

Systematics Research Fund

Systematics Research Fund

The Systematics Research Fund is a joint fund of the Linnean Society of London and the Systematics Association. It provides grants for small-scale research projects in the field of systematics. The 2013/2014 application round is now open. The deadline for applications is Tuesday 14th January 2014.

The SRF typically supports fieldwork expenditure, the purchase of scientific equipment or expertise (e.g. buying time on analytical equipment), specimen preparation (including the cost of temporary technical assistance), and publication costs. Projects of a more general or educational nature may also be considered, provided that they include a strong systematic component.

The fund does not provide support for attendance at scientific meetings, student maintenance or tuition fees, nor for bench fees.

Projects already substantially funded by other bodies may be disadvantaged.

Successful projects are selected by a panel of systematists who represent a wide range of conceptual interests and taxonomic groups. The value of any single award will not exceed £1500.

At least one applicant from each application must be a member of the Linnean Society of London or the Systematics Association in 2013 to apply for a SRF grant in the 2013/14 round.

For further details please see: <http://www.systass.org/-awards/srf.shtml> M.Carine@nhm.ac.uk

UBern VolFieldAssist AvianEvolution

Volunteer field assistant position to study oxidative stress in relation to social status in house sparrows in Switzerland.

We are seeking a research assistant for the upcoming breeding season to join a project investigating the impact of oxidative stress and social status on the development of reproductive strategies in house sparrow. The research will be conducted in Bern, Switzerland. The work will start on 1st of April and will continue through early/mid July. Our project investigates how males with different positions in a dominance hierarchy allocate their antioxidant resources to the protection of their sperm vs. the protection of their somatic functions, and how such allocation strategies affect the quality of the sperm they produce. The project is based at the University of Neuchatel, Switzerland (PI Prof. Fabrice Helfenstein, PhD student Alfonso Rojas), but will be conducted at Hasli, Bern, Switzerland. The work of the volunteer will consist of carrying out an experiment in aviaries with house sparrows. This includes assisting the PhD student with catching and banding birds, behavioural observations, sample collection, data management and data analysis. During the conduct of the experiment we work 7 days a week and 10-12 hours a day.

Qualifications: (1) BSc or higher in Biology or similar qualification (2) Ability to work and live in small groups and sociable personality (3) Fluent in English

(4) Ability to endure long working days (5) Knowledge in observing & handling birds is a plus (6) Driving license is helpful Basic knowledge of German is helpful although not essential

This is a volunteer field assistant position, thus the applicant should cover his/her own accommodation and food. Travel expenses might be covered for european applicants, and a possible stipend could be granted at the end of the season.

Applications - including a CV and a letter of motivation (1 pg.) - should be send to both: Fabrice Helfenstein: fabrice.helfenstein@unine.ch and Alfonso Rojas: alf.roja@gmail.com Please use "Volunteer Assistant in Switzerland" as the subject and note your availability during this time period in the body of the e-mail. Applications received until 9th of December 2013 will be given full consideration. For further information on the lab & project, see: <http://www2.unine.ch/ecophy> Alfonso Rojas <alf.roja@gmail.com>

Undergraduate education

Good afternoon,

I am sending an inquiry to the Evolution community to bring partners to our Consortium. My colleagues and I are in the midst of building a partnership between multiple professional organizations and institutions to support Quantitative Undergraduate Biology Education and Synthesis (QUBES). Currently, our partners include NIMBioS, ABLE, BIO-SIGMAA, SMB, KSMB, BioQUEST, NARST, SUMS4Bio, and other invested individuals. QUBES was gathered to support and give stakeholder feedback on the creation of QUBES Hub, and online social-networking and repository focused on quantitative biology education. This Hub would link together the massive amounts of excellent quantitative biology education material in one place, with the benefit of user ratings and tags to sort through information.

I am happy to communicate more specific information upon request. Please e-mail me: ceaton "at" unity.edu if you represent an organization that would be interested in joining the partnership. At this time we do not have a list serve for potential users, but be on the lookout for an email to that effect within a few months.

Cheers, Carrie

Carrie Diaz Eaton Program Chair BIO-SIGMAA Associate Professor of Mathematics Center for Biodiversity, Unity College <https://sites.google.com/a/unity.edu/-ceaton/> Carrie Eaton <CEaton@unity.edu>

microMORPH grants 2

Reminder: microMORPH Training Grants

Dear Colleagues,

microMORPH is pleased to announce a funding opportunity for graduate students, postdoctorals, and assistant professors in plant development or plant evolution. \$3,500 is available to support cross-disciplinary visits between labs or institutions for a period of a few weeks to an entire semester. We are particularly interested in proposals that will add a developmental perspective to a study of the evolution of populations or closely related species, or conversely, proposals to add a micro-evolutionary perspective to developmental studies. The deadline for proposals is November 1, 2013. More information about the training grants and the application process may be found on the microMORPH website:

<http://www.colorado.edu/eeb/microMORPH/-grantsandfunding.html>

These internships are supported by a five-year grant from the National Science Foundation entitled microMORPH: Molecular and Organismic Research in Plant History. This grant is part of the Research Coordination Network (RCN) Program at NSF. The overarching goal of the microMORPH RCN is to study speciation and the diversification of plants by linking genes through development to morphology, and ultimately to adaptation and fitness, within the dynamic context of natural populations and closely related species.

If you would prefer not to receive any more emails from me about the microMORPH RCN, please email me back with the word ³NO² in the subject line and we will remove you from the mailing list. We will use this list for occasional updates on funding opportunities through the microMORPH RCN, and yearly workshops hosted by microMORPH.

Pamela K Diggle

Professor Department of Ecology and Evolutionary Biology University of Colorado

Pamela.Diggle@colorado.edu

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AMU Poznan Bioinformatician

PostDoc:AMU.Poznan.Bioinformatician

Evolutionary Biology Group of Professor Jacek Radwan and Adam Mickiewicz University, Poznan, is looking

for a Post-Doc in an NCN-funded project investigating forces shaping number of expressed MHC molecules. In particular, the project aims to test, using bank vole as a model species, whether expressing many MHC molecules is associated with the cost of reduced T-cell receptor repertoire. The latter will be assessed using next generation sequencing.

The post-doc will be mostly responsible for bioinfor-

matic analyses of MHC and TCR sequences obtained from NGS.

The candidate should hold PhD degree in biological sciences or computer sciences and should have significant achievements in the area of evolutionary biology, molecular genetics or bioinformatics, published in international scientific journals. Competence in bioinformatics is essential.

The employment is offered for two year, starting ideally at the beginning of 2014, but it is negotiable. Application deadline is 5th December 2013. Further information and a list of documents required for application can be obtained from the project leader via email: jradwan@amu.edu.pl

Prof. Jacek Radwan Institute of Environmental Biology Adam Mickiewicz University ul. Umultowska 89 61-614 Poznan

j.w.radwan@gmail.com

AuburnU InvertPhylogenomics

Postdoc position and PhD position(s):

Topic: Marine invertebrate phylogenomics with other evolutionary genomic projects. Current foci include annelids and the earliest branches in the animal tree.

Advisor: Ken Halanych

A combination of the following skills would be helpful: knowledge of invertebrates, genomic skills, and/or marine systems. Familiarity with linux at the command line (at a minimum) and experience with high-throughput sequence data desirable.

If interested please visit: <http://metazoan.auburn.edu/halanych/lab/> click Projects tab.

Postdoc can start as early as Jan 2014, student in Fall 2014 term.

If interested contact ken@auburn.edu. please send CV and reason for interest.

halanych@me.com

Biogeco France EvolutionaryQuantGenetics

Post doc position in evolutionary quantitative genetics

—Job description: The general goal of the project is to predict evolutionary responses of tree phenology to environmental changes under different ecological settings. These predictions will be based on observations conducted in situ and in common garden experiments, and make use of modeling approaches (METAPOP simulation engine). A major goal of the project is to consider explicitly interactions between gene flow, plasticity and microevolution, and to apply predictive models under real ecological settings.

—Scientific environment: The post doc position is part of the recently granted ANR project MECC (MEchanisms of adaptation to Climate Change: how will phenotypic plasticity, microevolution and migration affect forest tree phenology). The working location will be at the Biogeco research unit (20 km south-west of Bordeaux, France: https://www4.bordeaux-aquitaine.inra.fr/biogeco_eng/). Biogeco has long standing experience in monitoring oak phenology along environmental gradients, in dissecting genetic variation in provenance/progeny tests and QTL experiments, in developing evolutionary modeling approaches of quantitative traits.

—Expected profile: We seek for a scientist with a PhD degree and experience in the field of evolutionary quantitative genetics. Knowledge of tree ecology and practice of computer programming will be helpful. Candidates should be fluent in English and have experience in paper writing.

—Application: Application with CV, a brief statement of research interests, contact information for two professional references and publication list should be submitted in an electronic form to Dr. Antoine Kremer (antoine.kremer@pierroton.inra.fr). Review of applications will begin on January 10 2014 and continue until the position is filled. Do not hesitate to e-mail us for further details or questions. The position is open for 18 months, and can be extended.

Sophie Gerber <sophie.gerber@pierroton.inra.fr>

CaseWesternReserveU EvolutionaryEcol

Postdoctoral Research Position in Evolutionary Ecology

A postdoctoral position is available in the laboratory of Dr. Ryan Martin (<http://tinyurl.com/rmartinresearch>), in the Department of Biology at Case Western Reserve University.

Research in the lab is broadly focused on understanding how biotic interactions (e.g. competition, predation) and environmental variation drive adaptive evolution and biological diversification. We primarily investigate these topics in desert amphibians and live-bearing fishes. The goal of this postdoctoral position is to recruit a strong, innovative researcher to investigate topics aligned with the broader focus of the Martin lab. The successful candidate will have opportunities to develop novel research projects and systems, in addition to contributing to ongoing projects in the lab.

Requirements: Applicants should have a Ph.D. in evolution, ecology, or a closely related field by the start date, a sustained strong publication record, excellent analytical, data management and communication skills, experience working in the field, and excel at both independent and collaborative research. Specific skills required for this position depend on the research topics pursued by the applicant, but might include ecological/evolutionary experiments in aquatic systems, geometric morphometrics, biomechanics, or multivariate analyses of phenotypic selection.

Research Topics: The successful candidate will have the opportunity to investigate a wide range of topics under the umbrella of evolutionary ecology, including ecological character displacement, eco-evolutionary dynamics, functional morphology of locomotion and feeding, predator-prey coevolution, life-history evolution, phenotypic plasticity, and multivariate selection.

Start Date / Position Details: The position will begin approximately

May-July, 2014 (negotiable), and continue for 24 months, with the possibility of extension depending upon performance and the availability of funds. Starting salary will be competitive and commensurate with experience and qualifications, based on the standard NIH scale (~\$40K). The position includes health insur-

ance, and benefits (<http://postdoc.case.edu/current/benefits.html>), as well as funds for travel and research.

Application: To apply, please send a cover letter, CV, and arrange for two letters of recommendation to be sent by email to Ryan Martin (martinlab.evol.ecol@gmail.com). In the cover letter, please include a general description of the proposed research topic(s), and how the work would fit into the overall focus of the lab. The position will remain open until filled by a suitable candidate, but applications received by December 31, 2013 will be given full consideration.

Location: Case Western Reserve University (www.case.edu) is a private research university (RU/VH Carnegie classification) located in the cultural vibrant University Circle neighborhood of Cleveland, Ohio, also home to a world-class symphony, botanical gardens and, numerous museums (<http://www.universitycircle.org/>). Cleveland has thriving food, art, theatre and music scenes, combined with a low cost of living.

In employment, as in education, Case Western Reserve University is committed to equal opportunity and world class diversity. Case Western Reserve University does not discriminate on the basis of race, religion, age, sex, color, disability, sexual orientation, gender identity or expression, or national or ethnic origin.

martinlab.evolecol@gmail.com

ColoradoStateU EvolutionaryGenomics

The Sloan Lab in the Department of Biology at Colorado State University is looking for a postdoc with expertise/interest in plant molecular evolution and genomics to join our group.

The current focus of our lab is on cytonuclear co-evolution in plants and, in particular, the effect of organelle mutation rates on compensatory response in the nucleus. The postdoc will have ample opportunity to contribute to ongoing projects involving sequencing and analysis of plant nuclear genomes/transcriptomes as well to develop his/her own projects that are (broadly) related to the research interests of the lab. The objectives for the position are flexible and, in the end, will largely depend on the interests and skills of the individual.

The lab employs a combination of computational ge-

nomic and molecular genetic wet lab approaches to address problems in molecular evolution and genomics. First and foremost, the postdoc will be expected to have an enthusiasm for asking and answering broad questions in evolutionary biology. Experience with computational methods related to genome assembly, annotation, and analysis are also highly desirable.

The CSU Department of Biology has strengths in related areas, including plant molecular biology and ecology/evolution, so the postdoc can expect a large network of colleagues. CSU is 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, a strong biking culture, and numerous great restaurants and breweries.

If you are interested in joining the lab or learning more, please e-mail Dan Sloan (dbsloan@rams.colostate.edu) and include a copy of your CV and a brief cover letter that addresses the main biological questions that interest you as well as the research methods in which you have experience (or perhaps would most like to gain experience).

The expected duration of the position will be at least two years (assuming satisfactory progress). The start date is flexible, so those who are still completing their degree or otherwise unavailable in the immediate future are still very much encouraged to inquire.

Dan Sloan Assistant Professor Department of Biology Colorado State University <https://sites.google.com/site/danielbsloan/> dbsloan@rams.colostate.edu

Cornell EvoDevo FunctionalGenomics

The Robert Reed lab (reedlab.org) in the Department of Ecology and Evolutionary Biology at Cornell University seeks to hire a postdoctoral fellow to work at the intersection of functional genomics, bioinformatics, and evolutionary developmental biology.

Current work in the Reed lab is primarily concerned with understanding the cis-regulatory basis of butterfly wing pattern evolution. We are focusing on using ChIP-seq and related methods for genome-wide characterization of cis-regulatory elements associated with the evolution and development of specific wing pattern

elements. We are also developing reporter construct and genome editing assays to functionally validate regulatory elements of interest. Depending on the specific interests of the successful applicant, postdoctoral research could focus on adaptive wing pattern variation within species (e.g. mimicry in *Heliconius* butterflies) or on deeper evolutionary questions concerning the molecular basis of gene co-option and the origin, diversification, and convergence of wing pattern traits between species. The postdoc would be expected to possess and/or develop both computational and bench skills.

Required qualifications: The applicant must have a PhD or equivalent in a biological sciences discipline and significant experience in molecular genetic bench techniques including PCR, cloning, and Illumina library prep. The applicant should also be comfortable working with massive short-read datasets, preferably in a Linux environment.

Preferred qualifications: Strong preference will be given to applicants with any of the following skills: manipulation of short-read data using Python (preferred) or Perl, design and construction of enhancer-reporter constructs, insect transgenesis, in vivo electroporation, chromatin immunoprecipitation, in situ hybridization, genome-wide SNP association analysis.

Application: Please send a single PDF containing a CV, a statement of research interests, and contact information for three references to robertreed@cornell.edu. Applications will be reviewed until the position is filled. Salary will be determined based on experience level, as per the NIH pay scale.

Robert D. Reed Associate Professor Department of Ecology & Evolutionary Biology Cornell University Ithaca, NY 14853

Phone: (607) 254-1315 Email: robertreed@cornell.edu
Web: reedlab.org

robertreed@cornell.edu

DalhousieU AgingFrailtyMicrobiome

We are seeking a postdoctoral fellow to carry out analysis of microbial data as part of a series of studies on aging, frailty and the microbiome. The project is a large collaboration that includes clinical and model organism components, as well as a significant amount of statistical and computational tool development to help with

the interpretation of taxonomic and functional aspects of the microbiome.

The postdoc will take a leadership role in the design of microbiome sampling experiments, and the analysis of large sequence datasets that will be collected in concert with information about health and social status. The postdoc will be charged with the interpretation of data, with development and validation of new analytical tools if necessary.

Applicants must possess a PhD in a relevant discipline, with experience in metagenome data analysis and an understanding of the key issues and relevant tools in the field. An understanding of statistics is essential. Experience with DNA and RNA extraction and sequencing is useful but not essential.

The position is funded for two years.

Location: Beiko lab, Faculty of Computer Science, Dalhousie University Halifax, Nova Scotia, Canada

To apply for the position, please submit a .PDF file consisting of a one-page cover letter describing your relevant experience and interests, a CV, and the names of at least two references, to Robert Beiko (beiko@cs.dal.ca) by *November 15, 2013*.

Robert Beiko <beiko@cs.dal.ca>

DalhousieU FishPopulationAlgorithms

Department of Biology and Faculty of Computer Science, Dalhousie University, Halifax, Nova Scotia, Canada, and Bedford Institute of Oceanography, Fisheries and Oceans Canada

We are seeking a postdoctoral fellow to develop new methods to characterize intraspecific biodiversity using next-generation sequencing data. The project will focus on the development of analytical pipelines that can analyze NGS data generated from genotyping by sequencing approaches such as restriction site-associated DNA sequencing (RAD-seq) and multiplex amplicon panels. Specific elements will include:

- Development of tools to identify promising single nucleotide polymorphisms (SNPs) from RAD-seq analysis and amplicon sequencing.
- SNP validation, screening, and population genetic parameter estimation and analysis
- Development of new techniques, likely using Bayesian regression, to associate genetic SNP vari-

ation with environmental and phenotype information and provide graphical views of the data - Application of software to new data sets from various fish populations

The postdoc will be expected to take the lead in application and method development, validation of pipelines and testing of classification approaches. Other personnel on the project will assist with some of these tasks.

Qualifications: Essential

PhD degree in Bioinformatics, Computer Science or related field
Experience with programming languages and software development
Familiarity with next-generation sequence data analysis
Experience with existing analysis tools (STACKS, GATK, Bowtie, etc.)

Desirable Experience with scripting languages such as Perl or Python
Knowledge of statistics and/or machine-learning techniques, in particular the R language

Position: The position is initially funded for two years, starting January 1, 2014. Remuneration will be \$40,000 per year, plus benefits. To apply for the position, please submit a PDF file consisting of a one-page cover letter describing your relevant experience and interests, a CV, and the names of at least two references, to Robert Beiko (beiko@cs.dal.ca).

beiko@cs.dal.ca

Edinburgh 8 GenomicsBioinformatics

Eight postdoc's available in Edinburgh.

Subject: Edinburgh_UK.Bioinformatics_programmer	Postdoc: Edinburgh_UK.Bioinformatics_manager	Subject: Edinburgh_UK.Bioinformatics_project_manager
Postdoc: Edinburgh_UK.Genomics_project_manager	Subject: Edinburgh_UK.Bioinformatician_training_and_outreach	Postdoc: Edinburgh_UK.Ash_dieback_genomics_bioinformatician
Subject: Edinburgh_UK.Lepidopteran_genome_informatics	Postdoc: Edinburgh_UK.Bicyclus_genome_bioinformatician	Subject: Edinburgh_UK.Lepidopteran_genomics_bioinformatician

Please see the details below.

—

Subject: Postdoc: Edinburgh_UK.Bioinformatics_programmer

Edinburgh Genomics, a major genomics facility within the University of Edinburgh, is recruiting a Bioinformatician to join our team analysing environmental, evolutionary and ecological genomics data.

The new genomics is at the centre of a revolution in bioscience. Edinburgh Genomics is a new venture from the University of Edinburgh that combines the world-leading ARK-Genomics and GenePool into one joint facility. The facility already has one of the largest installs of sequence generation and data analysis technologies in the UK, and has core support from the UK NERC, MRC, and BBSRC. Edinburgh Genomics aims to lead in quality, service and collaboration across all our genomics operations.

Working in a multidisciplinary team, the Bioinformatician (Programmer) (BP) will have a particular role in building and maintaining the underpinning computational architecture (including Laboratory Information Management System) that assures timely and robust delivery of next generation sequencing analyses to the Edinburgh Genomics user community. The BP will also ensure that Edinburgh Genomics stays abreast of developments in this rapidly changing field. This post will be based in a dynamic multidisciplinary team.

The BP will build and maintain systems to manage data from our high-throughput instrumentation (both sequencing - currently Illumina HiSeq 2000/2500 and MiSeq, and array/chip based), including the development and use of automated pipelines for data extraction, data archiving, data QC, report generation and automated analysis (e.g. alignment / assembly). A secondary role will be to provide bespoke bioinformatics support to the facility, including analysis and integration of high-density datasets in collaboration with scientists who partner with the facility.

A strong interest/track record in bioinformatics and programming/scripting is essential, as is experience of working with Linux or Unix operating systems. Experience in the integration and analysis of next-generation sequencing data is also essential. Experience with a relevant database management system is highly desirable. Previous experience of Laboratory Information Management Systems and their use in academic facility management would also be desirable.

We are seeking candidates with a degree in the biological sciences with a subsequent qualification (e.g. MSc, PhD) in bioinformatics; or a degree in computer science, mathematics or equivalent technical subject with subsequent qualification or experience in the biological

sciences. The ability to communicate complex information clearly, orally and in writing is required. We require highly organised individuals with an interest in providing the most efficient tools and workflows to organise and analyse big data. A proven ability to publish the results of scientific experiments in peer-reviewed journals is highly desirable.

Closing date for applications: 28-Nov-2013

Start date: As soon as possible after 01/12/2013

Duration: 3 years

Salary: £30,424 - £36,298 pa

Full details can be found at https://www.vacancies.ed.ac.uk/pls/corehrrecruit/-erq_jobspec_version_4.jobspec?p_id1990 Contact Mick Watson (Edinburgh Genomics head of Bioinformatics) for more information. mick.watson@roslin.ed.ac.uk

Edinburgh Genomics

The University of Edinburgh

Edinburgh EH9 3JT, UK

Subject: Postdoc: Edinburgh_UK.Bioinformatics_manager

Edinburgh Genomics, a major genomics facility within the University of Edinburgh, is recruiting a Bioinformatics Operations Manager to oversee the computational side of our environmental, agricultural, biotechnology and medical genomics activities.

The new genomics is at the centre of a revolution in medicine and bioscience. Edinburgh Genomics is a new venture from the University of Edinburgh that combines the world-leading ARK-Genomics and GenePool into one joint facility. The facility already has one of the largest installs of sequence generation and data analysis technologies in the UK, and has core support from the UK MRC, BBSRC and NERC. Edinburgh Genomics aims to lead in quality, service and collaboration across all our genomics operations.

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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>

EmoryU
ModelingMolecularEvolution

Postdocs in Modeling and Molecular Ecology

Two postdoctoral positions are available at the Center for Disease Ecology in the Department of Biology at Emory University.

The Center for Disease Ecology focuses on integrating ecological and genetic data using theoretical, computational and phylogenetic analysis to gain insights into the ecological and evolutionary dynamics of infectious diseases. The postdocs will be supported through Emory University Center funds and through an NIH RO1 grant on the phylogeography of rabies virus in the United States. The postdocs will be expected to fully engage with a collaborative research team working on rabies and involving Emory, the CDC, University of Glasgow, the Canadian Food Inspection Agency and State Public Health offices in the Northeast US. The postdocs will also have the opportunity to develop independent research projects related to ecological and evolutionary dynamics of infectious disease.

Ideal candidates should have a PhD and be familiar with analysis of genetic data and use of software for evolutionary analysis, such as BEAST. Candidates should also be comfortable modeling ecological dynamics, preferably through the use of computational methods. Familiarity with techniques such as Approximate Bayesian Computing (ABC) and MCMC is preferred but not required.

To apply, please send a letter of application with a statement of research interest, CV, and the names (with email addresses) of three referees. Applications should have "CDE Postdoc" as the subject field and should be directed to lreal@emory.edu or by mail to:

Professor Leslie A Real Center for Disease Ecology Department of Biology 1510 Clifton Road Emory University Atlanta, GA 30322

bbozick@emory.edu

Europe 4 EvolutionaryComputation
PopulationGenetics

FOUR POSTDOC POSITIONS IN COMPUTER SCIENCE AND POPULATION GENETICS Speed of Adaptation in Population Genetics and Evolutionary Computation (SAGE) <http://www.project-sage.eu>

Four outstanding postdoctoral candidates are required to support the 2M euro EU-funded project 'Speed of Adaptation in Population Genetics and Evolutionary Computation' (SAGE). This project brings together four European research institutions - University of Nottingham, University of Sheffield, Friedrich Schiller University Jena, and IST Austria - to develop world-leading research at the interface between Population Genetics and Computer Science. Specifically, SAGE aims at bringing together these two research fields to develop a new quantitative theory of the efficiency of evolutionary processes in natural and artificial evolution.

Applications are invited from highly skilled researchers in Computer Science, Mathematics, Physics, Theoretical Biology or related areas (at the interface between computer science and biology). A good understanding of evolutionary computation and/or population genetics will be an advantage. In addition, strong mathematical and analytical skills are essential. The applicants must have (or be very close to completing) a PhD in Computer Science, Biology, Mathematics, Physics or related disciplines. The successful candidates will be working on the development of a generalised theory of evolution covering both artificial evolution, such as in evolutionary algorithms, as well as natural evolution, and integrating methods and tools from both fields, including runtime analysis and the diffusion approximation, amongst others. They should be able to work independently as well as in multidisciplinary teams. Good communication and presentation skills are crucial. The candidates are expected to disseminate research results in peer-reviewed journals and conferences.

These posts offer a competitive salary and are available from January 2014, for a period of up to 36 months. Applications should include a CV, names of references and a letter of motivation.

Applications should be submitted to individual sites as follows:

University of Nottingham, UK: Applicants should apply online through <http://www.cs.nott.ac.uk/~pkl/-sage-ad.html> Informal enquiries to Per Kristian Lehre, perkristian.lehre@nottingham.ac.uk

Friedrich Schiller University Jena, Germany: <http://www.theinf.uni-jena.de/en/SAGE.html> Applications and informal enquiries should be emailed to Tobias Friedrich, friedrich@uni-jena.de

University of Sheffield, UK: Applicants should apply online through <http://www.dcs.shef.ac.uk/~dirk/sage-ad.html> Informal enquiries to Dirk Sudholt, d.sudholt@sheffield.ac.uk

Institute of Science and Technology Austria: <http://ist.ac.at/research-groups-pages/barton-group-positions/> Applications and informal enquiries should be emailed to Tiago Paixão, tiago.paixao@ist.ac.at.

For more information, please see <http://www.project-sage.eu> paixao@ist.ac.at

ences. Applications are reviewed as they are received.

The Institute of Biotechnology (BI) is an independent non-profit research and educational institute at the University of the Helsinki, located in the Viikki Bio-center of the Helsinki Science Park. BI's strategy is to carry our high quality research. With over 30% of the academic staff being foreigners, BI is one the most international research units in Finland. BI has research programs in Developmental Biology, Molecular Cell Biology, Genome Biology, and Structural Biology & Biophysics.

jernvall@fastmail.fm

Helsinki Evodevo

PhD and Postdoctoral Positions in the Centre of Excellence in Experimental and Computational Developmental Biology (ECDev): <http://www.biocenter.helsinki.fi/bi/evodevo/ECDev.html>

The Academy of Finland funded Centre of Excellence programs are six year initiatives to foster new initiatives. The goal of our Centre of Excellence in Experimental and Computational Developmental Biology is to bridge computational models and experimental work on developing organs across multiple systems. We aim to determine how changes in development lead to different organ phenotypes, build realistic models of development and evolution of complex organs, and study the principles of modeling pattern formation. The main organ systems we work on are mammalian tooth, hair, mammary gland and fly wing. We use both established laboratory species (mice, fruit fly) and non-model species (different mammalian, fly, and reptile species).

We are seeking for motivated and talented graduate student and postdoctoral candidates with proven research abilities to join our dynamic and international research community. Postdoctoral fellows should have previous experience in cell/molecular biology, developmental biology, evolutionary biology, imaging, bioinformatics, programming, or computational modeling. We are building teams where experimentalists and computational modelers work together, thus knowledge of disparate fields is not necessary. Applications are to be sent as a single pdf-file by December 31, 2013 by e-mail (Subject: Postdoc application or Graduate student) to ecdev-coe@helsinki.fi. The document should include a short cover letter describing your expertise areas and motivation for the position, CV (max 2 pages), and names and contact information of two to three refer-

INRIA Lille France Statistical Genomic Rearrangement

Postdoctoral position in computational biology in Lille/France

A postdoctoral position is available within the BONSAI bioinformatics research group at INRIA Lille - Nord Europe and LIFL (UMR 8022 CNRS, University Lille, France). - Duration : 12 months, with a possible extension in Canada - Starting date : as soon as possible

Description

The research project is funded by a Nord-Pas-de-Calais region grant, and it gathers computer scientists from the BONSAI team (INRIA Lille, CNRS, Université Lille 1-3, <http://www.lifl.fr/bonsai/>), and biologists from the GEPV (CNRS, Université Lille 1, <http://gepv.univ-lille1.fr>).

The successful candidate will work on the development of new discrete and probabilistic models and methods for the integration of some characteristics detected at genomic rearrangement breakpoints, in the inference of ancestral genome structures, and genome structure evolution scenarios.

Application

The ideal candidate should hold either a PhD in Computer Science, or Mathematics, or Probability and Statistics, with a strong taste for applications in Bioinformatics, or a PhD in Computational Biology, or Bioinformatics, or other related domains. Before applying, candidates should email a detailed CV with a list of publications, and a cover letter to contacts:

Aida.Ouangraoua@inria.fr

Samuel.Blanquart@inria.fr Jean-Stephane.Varre@lifl.fr
 Application deadline: December 15, 2013. <http://tinyurl.com/kuv4wdm> aida.ouangraoua@inria.fr

KunmingInstZool EvolutionCooperation

A postdoc position is available based at the Kunming Institute of Zoology,

People's Republic of China. The position is for two years and will be

funded by a new National Science Foundation of China (NSFC) research grant

to Dr. Rui Wu Wang (Kunming Institute of Zoology (KIZ)) and Prof. Lei Shi (Yunnan University of Finance and Economics, Kunming).

The work will involve the analysis of existing experimental data sets and the results of computer simulations exploring human cooperative behavior and evolutionary game theory, respectively.

Pay will be up to 10,000 yuan per month including various allowances, depending on experience. If required, visas enabling the successful candidate to work in China will be arranged by KIZ.

Interested parties are requested to send by 17th January 2014 a full CV including the contact details of three referees, and a cover letter explaining why they want the position, to Rui Wu Wang: ruiwukiz@hotmail.com

The position will remain open until a suitable applicant is found but

it is envisaged that the position will begin in 2014.

dwdunn@btinternet.com

London ChromatinEvolution

Dear EvolDir community,

a new postdoctoral position, supported by a generous fellowship, has become available in my group to work on sequence evolution in the context of chromatin archi-

ture (see below for further details). Please circulate to interested parties who (for whatever reason) have yet to discover EvolDir.

Application deadline is 1 Jan 2014 but early application (via the website at the bottom of the page) is encouraged.

Best,

Tobias Warnecke

Group Leader Molecular Systems Group MRC Clinical Sciences Centre & Imperial College London <http://www.csc.mrc.ac.uk/Research/Groups/IB/MolecularSystems/> —

A 3 year postdoctoral position is available at the MRC Clinical Sciences Centre and Imperial College London to work in the Molecular Systems group headed by Dr Tobias Warnecke. The group focuses on the evolutionary analysis of genome-scale biological sequence data to understand how various aspects of cellular biology affect evolutionary processes (for further information please visit <http://www.csc.mrc.ac.uk/Research/Groups/IB/MolecularSystems/> or contact Dr Warnecke for an informal discussion about the post).

We are looking for an enthusiastic, creative postdoctoral scientist, preferably with a background in functional or evolutionary computational genomics and experience in analyzing genome-wide data, particularly of the kind generated by next generation sequencing experiments (e.g. ChIP-Seq, RNA-Seq). The candidate should have a strong publication record in the field, excellent verbal and written communication skills, and a track record of addressing scientific problems in a innovative, thorough and efficient manner. The candidate should be proficient in at least one programming/scripting language (perl, python, etc.) and familiar with applying multivariate statistical analysis to complex data sets (ideally in the framework of the R programming language). A keen interest in evolutionary problems is highly desirable.

The project focuses on understanding how chromatin architecture and epigenetic marks affect evolution at the DNA sequence level, and will involve the computational integration of genome-wide ChIP-Seq and population genetic data from a variety of species. In addition to the main project, the candidate will be able to develop and carry out his/her own line of research within the group's areas of interest and expertise. Strong candidates will enjoy a large degree of independence in determining the direction of their own research. We are not tied to a particular model system and candidates from both eukaryotic and prokaryotic backgrounds are equally encouraged to apply.

Main Responsibilities:

* To plan and carry out research in accordance with the project aims * To attend all project and related research group meetings * To interact and collaborate with researchers in related projects * Write-up and publication of work in peer-reviewed journals * To take an active part in the academic activities of the CSC * To attend and contribute to journal clubs and seminar presentations * Presentation of data at national and international meetings (where and when appropriate) * To form good working relationships with other members of the group as well as internal and external collaborators * To assist others and co-supervise students when required * To contribute to the development and maintenance of the group's computational infrastructure

This post is a Career Development Fellowship to support post-doctoral scientists in early or changed career training and help establish them as successful research scientists in their chosen field. The Clinical Sciences Centre (CSC) is an institute funded by the Medical Research Council (MRC) and is a division of the Faculty of Medicine at Imperial College London, a thriving research environment with state-of-the-art facilities and equipment, including micro MRI and PET imaging.

You should have a PhD or equivalent in computational and/or evolutionary biology, an excellent publication record and a commitment to scientific excellence. Cross-field applicants with a background in physics, mathematics, or computer science that have a keen interest in and advanced knowledge of genome biology and evolution are also encouraged to apply.

Applications are to be made via the following link: http://www.topcareer.jobs/Vacancy/-irc121013_3921.aspx tobias.warnecke@csc.mrc.ac.uk

MPI Tuebingen GenomeEditingTechnologies

Marie Curie Experienced Researcher position at the Max Planck Institute for Developmental Biology

“Exploring novel genome editing technologies in emerging marine animal models”

http://neptune-itn.eu/wp-content/uploads/-2013/11/ER_ad_Jekely2.pdf

Contact: gaspar.jekely@tuebingen.mpg.de.

Max Telford Professor of Zoology Department of

Genetics, Evolution and Environment, University College London, Darwin Building, Gower Street, London WC1E 6BT, UK. Tel: +44 (0)20 7679 2554 (Internal: 32554) Fax: +44 (0)20 7679 7096 <https://www.ucl.ac.uk/gee/gee-staff/academic-staff/-index/max-telford> a new open access journal *EvoDevo*: <http://www.evodevojournal.com/> Telford & Littlewood: *Animal Evolution*. OUP

Software to align Nucleotide sequence according to Amino Acid translation TranslatorX

Files and software for downloading:

Mrimpatient: If you cant wait to see latest result of MrBayes analysis. Xstem and Ystem: Software for 2y structure data in rRNA phylogenetic analyses. MtZoa and MtHydro : new amino acid substitution matrices Hacked version of MrBayes using these matrices

Xenoturbella You Tube video

The Linnean Society of London

”Telford, Max“ <m.telford@ucl.ac.uk>

Montpellier MalariaComparativeGenomics

Postdoctoral Position in Malaria Comparative Genomics / Evolutionary Biology Franceville (Gabon), Montpellier (France), Hinxton (UK)

We are seeking a highly motivated Postdoctoral Fellow to join our team investigating the genetic adaptations to human host environment in *Plasmodium falciparum* and *P. vivax*, the two main agents of human malaria in the world, using the tools of comparative genomics.

Project description: When a host radiation or host transfer event occurs, it is expected to be accompanied by adaptive evolutionary changes that allow the parasite to complete its life cycle in the new host species as well as being transmitted from individuals to individuals in this new host species. Identification of the positions in the parasite genome underlying the differences between host-specific lineages may provide information about the molecular basis for species-specific adaptation. Our objective is to identify regions of the genome that have been subject to lineage specific evolution over the history of *P. falciparum* as well as *P. vivax* in humans and that may have played a role in the adaptation of the pathogen to this host. We will use the tools of comparative genomics to detect these genomic regions

by comparing the genomes of *P. falciparum* and *P. vivax* to the genome of their most closely related species. This will include in particular the genome of *P. praefalciparum* which was recently discovered in gorillas and the *P. vivax sylvatic* clade which was also recently discovered in great apes (chimpanzees and gorillas). Genomic data are already available for immediate start of the analysis.

Research environment: The postdoctoral fellow will work directly in the group of Dr Franck Prugnolle in close collaboration with Dr Thomas Otto and Dr Mathew Berriman (Sanger Institute, UK), Dr François Renaud (CNRS, France, Laboratory MIVEGEC) and Dr Benjamin Ollomo (CIRMF, Gabon). For the first year, at least, the post-doctoral fellow will be based in Gabon at the International Center for Medical Research in Franceville but missions in Europe will be done for data analyses. The CIRMF comprises 15 researchers of different nationalities, working on a variety of key issues in parasitology, including the study of emerging diseases, entomology, ecology and evolution. The Sanger Institute is an institute of reference for comparative genomics. The Laboratory MIVEGEC in Montpellier is considered as a laboratory of excellence for the study of host / parasite systems and interactions.

Qualifications: A PhD degree in Evolutionary Biology / Evolutionary genetics is required. The PhD degree should have been awarded no more than two years prior to the date of application. The applicant should be well acquainted with theories in evolution and population genetics and genomics. Ability to manage a laboratory research project is also required. Documented experience in genomics, programming, statistics and parasitology will also be highly valued. The candidate must have a good knowledge of English. Selection will be based on the written application, CV, personal references and an interview. For more information, please contact Dr Franck Prugnolle by email (franck.prunolle@ird.fr).

Form of employment: Temporary employment for 2 years.

Place of work: Franceville (Gabon) for at least a year. Then possibility to be located in Montpellier (France, Laboratory MIVEGEC, IRD).

Starting date: As soon as possible. **Application:** Please submit your application to Dr Franck Prugnolle (franck.prunolle@ird.fr) and Dr Thomas Otto (tdo@sanger.ac.uk).

Salary: 2032 euros per month. In Gabon, the post-doctoral fellow will be accommodated for free.

Selected publications of the persons involved in the

project: Prugnolle F, Rougeron V, Becquart P, Renaud F. 2013. Diversity, host switching and evolution of *Plasmodium vivax* infecting African great apes. *Proc Natl Acad Sci U S A.* 110(20):8123-8

Prugnolle F, Ollomo B, Durand P, Yalcindag E, Arnathau C, et al., 2011: African monkeys are infected by *Plasmodium falciparum* nonhuman primate-specific strains. *Proc Natl Acad Sci U S A* 108(29): 11948-11953.

Prugnolle F, Durand P, Neel C, Ollomo B, Ayala FJ et al. Renaud F., 2010: African great apes are natural hosts of multiple related malaria species, including *Plasmodium falciparum*. *Proc Natl Acad Sci U S A* 107(4): 1458-1463.

Ollomo B, Durand P, Prugnolle F, Douzery E, Arnathau C et al., 2009: A new malaria agent in African hominids. *PLoS Pathog* 5(5): e1000446.

Prugnolle F, McGee K, Keebler J, Awadalla P, 2008: Selection shapes malaria genomes and drives divergence between pathogens infecting hominids versus rodents. *BMC Evol Biol* 8: 223.

Spence PJ, Jarra W, Lévy P, Reid AJ, Chappell L, Brugat T, Sanders M, Berriman M and Langhorne J. 2013. Vector transmission regulates immune control of *Plasmodium* virulence. *Nature*;498: 228-31

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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>

Munich AdaptiveImmunityEvolution

A thematic Parmenides fellowship is open at the Parmenides Center for the Conceptual Foundations of Science (Münich, Germany) under the supervision of Prof. Eörs Szathmáry. The successful candidate will carry out his/her own research agenda in the fields described below. The position is for a minimum of 1 year to a maximum of 3 years. The successful applicant will receive a stipend of 2500 EUR per month (net). The proposed project can start as soon as a suitable candidate is identified, but not later than the 1st January, 2014.

Origin and evolution of adaptive immune systems: The

project will involve the development of a conceptual framework and detailed evolutionary scenario to place the origin and evolution of adaptive immune systems in the framework of the major evolutionary transitions. Individual steps of the evolutionary pathway will be investigated with the help of mathematical and simulation models.

We seek applicants with an interest in both theoretical evolutionary biology and immunology, with experience in using a range of computational, bioinformatics and mathematical techniques to answer evolutionary questions. The ideal candidate will have 5+ years of postdoctoral experience, a track record in publishing in international scholarly journals and fluency in English. Past experience in the supervision of MSc/PhD students is an advantage.

Candidates should submit an application consisting of a CV with full list of publications, a motivation letter (1 page) and a proposed workplan (max 3 pages).

The deadline for applications is 15th December, 2013. Applications should be sent by email to Eörs Szathmáry, szathmary.eors@gmail.com.

Carsten Freitäger Projektmanagement Parmenides Stiftung Kirchplatz 1 82049 Pullach Tel +49.89.4520935.0 Fax +49.89.4520935.31 Mobil +49.173.5403274 carsten.freitaeger@parmenides-foundation.org

Carsten Freitäger <carsten.freitaeger@parmenides-foundation.org>

NHM London SupertreeMethodDevelopment

Post: Postdoctoral Research Assistant- (Division of Vertebrates) Salary: £27,888 per annum plus benefits
Contract: 18 month fixed-term appointment Closing date: Midnight 14th November 2013

The Natural History Museum is one of the worlds leading museums, internationally recognised for its dual role as a centre of excellence in scientific research and as a leader in the presentation of natural history through exhibitions, public programmes, publications and the web.

The Postdoctoral Research Assistant will work primarily with the PI (Dr Wilkinson) and secondarily with other team members based at the University of Bath.

You will have shared responsibility for the development/invention and prime responsibility for the implementation and testing of novel supertree methods using mainly the Python programming language.

The ideal candidate will have a Bachelors degree in Science and be proficient phylogenetic programming in Python. You will have knowledge of supertree methods as well as experience of implementing probabilistic supertree methods.

For a full job description and to apply online please visit the Natural History Museum website: www.nhm.ac.uk/jobs Mark Wilkinson (m.wilkinson@nhm.ac.uk)

NRM Stockholm ComputationalPhylogenetics

Postdoc in Computational Phylogenetics Ronquist lab, Swedish Museum of Natural History, Stockholm Application deadline: November 30

Our group develops methods for Bayesian phylogenetic and phylogenomic inference, which has numerous applications across the life sciences. We are particularly interested in applications to problems in evolutionary biology, biogeography and biodiversity, but the software we produce (MrBayes, <http:// mrbayes.net>) is widely used for other types of analyses as well. The lab is part of the interdisciplinary Stockholm Phylogenomics Group (<http:// phylogenomics.se>) with participants from SciLifeLab, KTH, Karolinska Institute, and Stockholm University.

In this project, funded by the Swedish Research Council, we are developing the next generation of Bayesian phylogenetics software, an R-like computational environment (RevBayes) allowing users to build complex evolutionary models for simulations and Bayesian inference. You will be expected to contribute to this computational environment while developing an independent, methodological or empirical research project where Bayesian phylogenetic computation plays a central role.

We expect you to have a doctoral degree in evolutionary biology, bioinformatics, mathematics, statistics, or computer science. Regardless of your background, you should be comfortable with mathematical and statistical reasoning, be a skilled C++ or R programmer, and have solid experience working with empirical research

problems of scientific significance.

We expect that you will be creative and independent while being a good team player. Fluency in spoken and written English is essential. We will pay particular attention to scientific talent and potential.

The position is for 18 months, with possible extension. Starting date is flexible.

For more information about the position, contact Professor Fredrik Ronquist, Head of the Department of Bioinformatics and Genetics. Email: fredrik.ronquist@nrm.se; voice: +46-8 5195 4094.

Submit your application to <http://bit.ly/HFPwAy> or as a pdf to Fredrik Ronquist (fredrik.ronquist@nrm.se) no later than November 30, 2013. The application should be in a single PDF and should consist of a personal letter, a description of the planned research project, and a CV.

Fredrik.Ronquist@nrm.se

NorthCarolinaStateU Coevolution

A postdoc position available immediately to investigate the proximate and evolutionary relationships between cockroach and bed bug infestations and the microbial communities in infested homes. This Housing and Urban Development (HUD)-funded project will include innovative interventions to eliminate cockroaches and bed bugs, allergen studies, and microbiome studies to quantify the effects of infestations and interventions on indoor microbial communities.

QUALIFICATIONS: Ph.D. in microbiology, entomology or related fields. Expertise in microbial techniques, including microbial community analysis and bioinformatics. If you are interested in working at the interface of entomology, microbiology, evolution and environmental science, please apply.

APPLICATION: Submit CV, relevant reprints and manuscripts, and a letter describing background, skills and interests. Also submit names, e-mail addresses and phone numbers of three references to: Coby Schal (coby@ncsu.edu) Closing date when a successful candidate is found Please see attached description.

Coby Schal, Ph.D Blanton J. Whitmire Distinguished Professor Department of Entomology, 3107 Gardner Hall Campus Box 7613, 100 Derieux Place North Carolina State University Raleigh, NC 27695-7613 office:

919.515.1821; lab: 919.515.1820; fax: 919.515.7746
email: coby@ncsu.edu; skype: coby.schal WWW:
http://www.cals.ncsu.edu/entomology/schal_lab/ <
<http://www.cals.ncsu.edu/entomology/schal> >

Coby Schal <coby@ncsu.edu>

OxfordU ViralEvolution

Job description and selection criteria – Postdoctoral Virologist Division – Medical Science Department – Tropical Medicine, Nuffield Department of Medicine (NDM) Location – Oxford University Clinical Research Unit (OUCRU), Ho Chi Minh City, Vietnam Grade and Salary – Grade 7: £29,541 - £36,298 per annum Hours – Full time Contract type – Fixed Term until 31st August 2016 Reporting to – Principal Investigator of VIZIONS programme (Stephen Baker) Vacancy reference – 109983 Posting available at: https://www.recruit.ox.ac.uk/pls/hrisliverecruit/-erq.jobspec_version_4.jobspec?p_id=109983 Job description

Overview of the role

OUCRU in Viet Nam is leading a Wellcome Trust Strategic Award to study zoonotic infections. This project is called the Vietnamese Initiative on Zoonotic Infections, or VIZIONS. The project is a multi-disciplinary study being performed in hospitals and in field settings to investigate the occurrence of emerging and zoonotic viral infections. As part of this study we have established several investigations where we are sampling humans and animals to study the aetiology and the potential risk of zoonotic disease across species barriers. This project has been running for the past 18 months and has already produced several publications. We are seeking a postdoctoral research scientist, who sees themselves as a future leader of a research group, to take on and further develop our research programme on viral infections through the framework of the VIZIONS project. Current diseases of interest through VIZIONS include viral encephalitis, ILI/SARI, hepatitis and diarrhoea.

Responsibilities/duties

Responsibilities of the post holder The post holder will report to the principal investigator of the VIZIONS programme at OUCRU (currently Dr Stephen Baker). The successful applicant will be responsible for: - Leading and conducting research projects within the remit of

the VIZIONS programme at OUCRU in Ho Chi Minh City - Developing laboratory capacity in classical and molecular virology at OUCRU - Producing scientific publications - Supervising PhD students, MSc students and OUCRU staff - Developing and enhancing the research programme on zoonotic infections at OUCRU in collaboration with internal and external scientists.

Key Duties of the post holder

- To run research projects within the VIZIONS programme
- To work closely with other investigators at OUCRU and participate in scientific activities within the zoonosis research group
- To provide training and consultancy. Scientific capacity building within Vietnam is a priority of the unit and you will be expected to make a significant contribution to training in laboratory sciences including the supervision of clinical staff, students, research assistants and PhD students
- To present research findings through talks at international conferences and publications in international scientific literature
- To participate in meetings, team briefing sessions and other meetings as required
- Maintain contact with collaborators
- To participate in and support the public engagement and widening access activities of the Department and the University. This is anticipated to be not more than 2 days per year.
- Other duties commensurate with the grade as required by the principal investigator and the unit director

Selection criteria

Essential - A PhD or equivalent in laboratory virology or a related field - Experience of applying Classical/“Wet” and molecular virology laboratory skills to an understanding of infectious diseases - Experience working with human and animal viruses and an interest in zoonotic pathogens and infections - Knowledge of biosafety and biosecurity aspects - Previous BSL3 experience - A proven ability to work collaboratively including in an international research context.

- A strong publication record
- Excellent communication skills with the ability to engage with senior staff and stakeholders
- Proven ability to work well under pressure, be self-motivated and to work collaboratively across disciplines.

Desirable - Knowledge of bioinformatics and genomics

- Ability to be resourceful and to adapt to new environments
- Experience of managing and motivating research staff
- Evidence of independent research
- Experience of working in Asia

Closing date for applications is 12.00noon (UK time) on Friday 6th December (https://www.recruit.ox.ac.uk/pls/hrsliverecruit/-erj_jobspec_version_4.jobspec?p_id=109983).

Introduction

The Oxford University Clinical Research Unit Vietnam

The Oxford University Clinical Research Unit (OUCRU-VN) is a large-scale clinical and public health research unit with sites in Ho Chi Minh City

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Princeton Tampa GenomeRearrangement

Postdoc Opportunity:

Computational Analysis of Genome Rearrangement

University of South Florida (USF), joint with Princeton University

Postdoctoral Research Associate position is available immediately in the Department of Mathematics and Statistics at USF with focus on mathematical models and computational studies of DNA recombination, rearrangement, epigenetics, and non-coding RNA. This position will hold a joint appointment in the Department of Ecology & Evolutionary Biology at Princeton University.

Professors Natasha Jonoska, Laura Landweber and Masahico Saito seek a joint postdoctoral research associate to model and analyze scrambled gene and genome rearrangements, using and developing novel computational and bioinformatic research tools.

Minimum Requirements: Ph.D. in mathematical sciences/computational biology or a relevant field; strong training, research experience, and publications from the Ph.D.; ability to work independently and creatively, and strong written/oral communication skills are necessary.

The candidate is expected to spend time at both institutions, with a schedule to be worked out with the faculty. For more information about our labs, see <http://knot.math.usf.edu/> and <http://www.princeton.edu/~lfl>. The official appointment will be based at USF in Tampa in the first year, with travel between both institutions. (Flights are currently very convenient between Trenton and Tampa.)

This is a one-year initial appointment with possibility of renewal. Funding is expected to be available for additional years. Apply online at https://gems.fastmail.usf.edu:4440/-psp/gemspro-tam/EMPLOYEE/HRMS/-c/HRS_HRAM.HRS_CE.GBL?Page=-HRS_CE_JOB_DTL&Action=A&JobOpeningId=-2682&SiteId=1&PostingSeq=1

Please upload A SINGLE PDF file containing a cover letter, CV, statement of research interests, and names and e-mail addresses of at least three references. Application review will begin immediately; the start date is flexible.

For information regarding the USF System, please visit <http://system.usf.edu/>. According to Florida Law, applications and meetings regarding them are open to the public. USF and Princeton University are Equal Opportunity Institutions.

Laura Landweber <llf@princeton.edu>

QueensU AvianLifeHistory

***Description:** We are seeking a talented and highly motivated postdoctoral associate for work on an NSF-funded study on the role of glucocorticoids in mediating life history tradeoffs in tree swallows. The successful candidate will become a member of the Department of Biological Sciences at Virginia Tech in Blacksburg, Virginia, and will work closely with Ignacio Moore, Fran Bonier (Queen's University), and Mark Haussmann (Bucknell University), with opportunities for visits to work in each of the PI's labs.

***Position Duties and Responsibilities*:** The project will require that the postdoc spend 3-4 months in the field at the Queen's University Biological Station in Ontario, Canada and/or at a field site in North Carolina every year, from April until late July, working with a team comprised of undergraduate field assistants, graduate students, and our current postdoc. Together, the two postdocs will coordinate activities at both field sites and supervise the field teams. The project will involve large-scale field experiments (manipulations of glucocorticoids, parasites, and/or reproductive effort) and measurement of effects on reproductive investment, parental behavior, immune function, and markers of oxidative stress. The postdoc will have the opportunity to be involved in all aspects of the project, and thus will

receive broad training in field and laboratory methods.

***Required Qualifications:** Must have completed a PhD degree in Biology or related fields prior to the start date. Strong publication record, communication skills, organizational skills, teamwork, and leadership ability required.

***Preferred Qualifications:** Previous relevant field and lab research experience and some postdoctoral experience preferred.

***Starting Date:** *1 March 2014

***To Apply:** Interested candidates should send 1) a cover letter summarizing their professional goals and research interests, 2) a cv, and 3) contact information for at least 2 professional references to Fran Bonier (bonierf@queensu.ca) by *30 November 2013*.

For more information see links below.

the Bonier lab: <http://post.queensu.ca/~bonierf/> the Moore lab: <http://www.faculty.biol.vt.edu/moore/> the Haussmann lab: <http://www.bucknell.edu/-x43983.xml> the Queen's University field station: <http://www.queensu.ca/qubs/index.html> Frances Bonier, PhD Queen's University Biology Department Biosciences Complex 3443 Kingston, ON K7L 3N6 Canada

phone: 613-533-6000 x75134 email: bonierf@queensu.ca <http://post.queensu.ca/~bonierf/-index.html> fbonier@gmail.com

SainsburyLab England Bioinformatics

Bioinformatics Post-doctoral Researcher

We are looking to recruit a dynamic and highly motivated candidate to drive an exciting high-risk, high-reward project studying the evolution of pathogen genomes using population genetic/genomics and mathematical modelling approaches. Minimum qualifications include a Ph.D. and post-doctoral experience in population genetics/genomics or biomathematics. The project, which will begin from a theoretical and computational standpoint and include later experimental verification steps will have scope for much creativity from the eventual appointee. Success will require the development of novel agent-based models of genome evolution and expansion in silico thus proven experience with population genetic/genomic analysis and experi-

ence with software development and a record of addressing scientific problems in a innovative, thorough and efficient manner will be essential.

The post is a Sainsbury Laboratory core-funded position available for a minimum of two years in the first instance with the possibility of extension.

To apply, please submit a letter of interest, curriculum vitae, up to three recent and relevant publications, statements of research interests, and a list of names and contact information of up to three referees.

Questions can be directed to Dr. Daniel MacLean dan.maclea@tsl.ac.uk

Many thanks

Kim Blanchflower HR Manager The Sainsbury Laboratory

+ 44 (0)1603 450466 phone www.tsl.ac.uk
www.tsl.ac.uk/tslplus.htm The Sainsbury Laboratory is a not for profit charity, number 1065510, and a company limited by guarantee, registered number 3346853 in England and Wales. Registered office: John Innes Centre, Norwich Research Park, Norwich NR4 7UH, UK

“Kim Blanchflower (TSL)”
 <kim.blanchflower@sainsbury-laboratory.ac.uk>

Smithsonian CoastalBiodiversity

Date November 13, 2013

To Smithsonian Marine Science Distribution

>From Tennenbaum Marine Observatories Network Executive Committee

Subject Call for FY14 MarineGEO Postdoctoral Fellowship Proposals

Submission Deadline: 15 January 2014

The Tennenbaum Marine Observatories Network (TMON) is the first network of marine observatories focused on global-scale, long-term study of coastal biodiversity and ecosystems using standardized approaches. The network is a developing partnership of diverse organizations facilitating long-term interdisciplinary, comparative research. TMON currently includes the Smithsonian Environmental Research Center, Edgewater, Maryland (SERC), the Smithsonian Marine Station at Ft. Pierce, Florida (SMSFP), the Carrie Bow

Cay Marine Field Station (CCRE Program-Belize), and sites on both Caribbean and Pacific sides of Panama administered by the Smithsonian Tropical Research Institute, Panama (STRI). Additional partner sites are under development. TMON invites research proposals for a Postdoctoral Fellowship that will complement our developing comparative research program.

Eligibility and Award Amount. Postdoctoral scientists must collaborate directly with Smithsonian scientists as named sponsors (see Smithsonian Marine Research Staff at <http://www.si.edu/marinescience/-staff.htm>) and must select co-Advisors from more than one SI unit (NMNH, SMSFP, SERC, STRI, NZP). Stipend is \$45,000 per year with an allowance for health insurance, travel to the Smithsonian host facility, research travel and supplies, up to a total \$60,000 maximum per year. Awards will be made for a maximum of two years, pending first-year performance review. Proposals must focus on comparative research involving at least two TMON facilities. Applicants must have completed the Ph.D. degree before commencing the fellowship. Individuals who have been employees at the Smithsonian Institution within the previous year are not eligible.

TMON research. TMON is dedicated to understanding change in the biodiversity, structure, and functioning of marine ecosystems, at local through global scales. The research aims to advance scientific capacity for forecasting change and to inform appropriate policy. A cornerstone of TMON is the use of standardized, repeated measurements and experiments, maintained over decades, conducted across the Smithsonian marine laboratories and an expanding global network of diverse partnerships. This approach is designed to achieve rigorous comparisons among sites, to understand underlying variation, and to assess links between local and global biodiversity, environmental and ecological change. We seek applications for independent Postdoctoral research projects that address at least one of TMONs overarching research themes:

1. How does marine biodiversity vary through space and time across the globe?
2. How do natural and human forces (e.g. fishing, land-use, invasions, habitat loss) drive changes in marine biodiversity and ecosystem functioning and resilience?
3. What are the consequences for human well-being of these changes in marine ecosystems?
4. How does anthropogenic alteration of carbon cycles affect coastal marine systems and ecosystem service provision?
5. How are marine ecosystem connected via dispersal and metapopulation dynamics, and how do these connections affect responses to change and human well-being?
6. How do nearshore food webs change through space and time?
7. How can

the pastXancient through historicXhelp us understand the consequences of local human activities and global change? 8. Where are the critical tipping points that lead to rapid and unwanted shifts in marine ecosystems, and how can these best be avoided?

Proposal submission. Prospective applicants are strongly encouraged to consult with Smithsonian staff scientists prior to proposal submission. Proposals must be submitted electronically as a single PDF by 15 January 2014 at midnight EST to stonem@si.edu. Two non-Smithsonian referees must be identified and submit letters of support to the same site by 15 January 2014.

Proposal Review and Award Notification. Proposals will be peer-reviewed by a panel of Smithsonian scientists for scientific merit, project feasibility and appropriateness match with TMON goals. Award notification will be forwarded electronically by 15 April 2014 to the applicants and their Smithsonian sponsors.

Smithsonian Scientific Diving Authorization. See www.si.edu/dive Progress Reports and Publications. A progress report is required for all projects and must be electronically submitted no later than ten months after start of fellowship appointment. A final report is due upon expiration of fellowship appointment. All publications resulting from work supported by the Smithsonian Institution must include an

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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>

Smithsonian Fellowship Opportunities

2014 Smithsonian Institution Research Fellowships Research fellowships in evolutionary biology are available through the Smithsonian Institution Fellowship Program, which provides funding for graduate students, postdoctoral scholars, and senior investigators to conduct research in association with Smithsonian scientists. Candidates are especially encouraged to apply for the new multi-year Peter Buck Fellowships (<http://www.smithsonianofi.com/fellowship-opportunities/peter-buck-fellowship/>). Fellows based at the National Museum of Natural History have access

to a research staff of more than 100 scholars, world-class collections, and modern core facilities including molecular and stable isotope laboratories and SEM. All applicants should contact potential staff advisors to determine the feasibility of the proposed research and tenure dates, as well as the availability of relevant collections and other resources. Potential staff advisors and information about their work is available in the on-line Opportunities for Research and Study handbook (<http://www.smithsonianofi.com/sors-introduction>) and in departmental webpages (<http://www.mnh.si.edu/rc/>).

Proposal deadline is January 15, 2014. Fellowship durations range from three months to three years depending on fellowship category. The stipend for Pre-doctoral Fellows is \$30,000 per year (twelve months) and for Postdoctoral and Senior Fellows is \$45,000 per year (twelve months). A maximum research allowance of \$4,000 per year is available. Ten-week Graduate Student Fellowships are also available with a stipend of \$6,500. Fellowships are open to citizens of any country. For more information and to apply online, visit the Program website (<http://www.smithsonianofi.com/fellowship-opportunities/smithsonian-institution-fellowship-program/>).

“James, Helen” <JAMESH@si.edu>

StLouis PlantGeneticsInformatics

The Baxter Lab at the Donald Danforth Plant Science Center is recruiting an enthusiastic postdoctoral associate to take a key role in an NSF funded project to combine ionomics (high-throughput elemental profiling) and genetics to identify genes and gene x environment interactions in Maize. The successful candidate will combine QTL/association/nested association mapping data with the wide variety of co-expression, comparative genomic, and other systems biology data sets that are available to create biological hypotheses and knowledge.

A Ph. D in a field related to plant bioinformatics (i.e. plant biology, genetics, bioinformatics, genomics, computer science, statistics) is required. While scripting ability is not required, candidates should be able to demonstrate familiarity with computational/bioinformatics approaches.

The interdisciplinary research environment at the Danforth Center offers an excellent opportunity for career development. Salaries are competitive and commensu-

rate with experience, and the Danforth Center offers an excellent benefits package including medical and 403B matching.

Please send your cover letter, CV and list of 3 references to: Ms. Deborah Barron Ref: Baxter Postdoc Donald Danforth Plant Science Center 975 North Warson Road St. Louis, MO 63132

Or by email to dbarron@danforthcenter.org with Baxter Postdoc in the subject line.

IBaxter@danforthcenter.org

StonyBrookU Biodiversity

We seek a Biodiversity Postdoctoral Associate to collaborate with a multi-institutional team on a project titled: "Integrating genetic, taxonomic, and functional diversity of tetrapods across the Americas and through extinction risk." The project will examine the ecological and evolutionary factors that influence the relationships among the three dimensions of biodiversity (trait, taxonomic and phylogenetic), and use extinction risk data to predict impending changes in these relationships. The postdoc will guide development of research questions, perform analyses of tetrapod distribution and trait data using R, and write manuscripts.

A Ph.D. is required for the position. The ideal candidate will have a strong theoretical and analytical background in biodiversity science with a proven track record of senior-authored publications, strong R skills, proficiency at biodiversity data analysis, and experience with GIS/RS and spatial analyses.

The successful candidate will be an employee of NatureServe (located in Arlington, Virginia) but based full time in the Department of Ecology and Evolution at Stony Brook University, Stony Brook, NY (under the guidance of Dr. Catherine Graham). NatureServe offers a competitive nonprofit benefits package that includes a 401(k) savings and retirement plan with matching contributions; health and dental insurance; short and long-term disability; annual and sick leave; and life insurance. Applicants must have permission to work in the United States.

Review of applications will begin Monday, 4 November 2013, and the starting date for the one-year (with possibility of renewal for 2 additional years contingent upon performance) position is as soon as the successful applicant is able to join the team. Please

click on this link [<http://natureserve.iapplicants.com/-searchjobs.php>] for detailed information about this position and how to apply.

sbh1@psu.edu

TrierU Germany BatPopModelling

At Trier University's 'Trier Center for Sustainable Systems (TriCSS)', financed by the 'Forschungsinitiative des Landes Rheinland-Pfalz' will be available one

postdoc position (100% E 13 TVÂL) for the period 1 January 2014 to 31 December 2016

in the field "wind power inside forests versus bat protection - development of prognostic tools for estimating threats to bat populations by wind turbines".

The issue of wind energy versus biodiversity is highly relevant. The estimated land requirements for wind energy plants within forest stands (Rhineland-Palatinate for instance wants to use 2% of its total forest area for generating wind energy) fosters a lasting conflict with other values added such as the timber industry, local recreation, tourism and biodiversity (particularly birds and bats). In the framework of the European Natura 2000 network, there are clear legal regulations for the latter subject of conservation, which could be compromised to an uncertain extent through the development of wind energy plants in the forest. Within the scope of the advertised postdoc position a population model of the threat to bats should be developed. Here with a deterministic model of "crash fatalities" at wind turbines (in cooperation with the department of mathematics) should be linked to a stochastic population model. A spatially explicit three-dimensional small-scale modelling of the wind field within the range of wind energy plants to optimize crash fatality prognoses of present as well as future wind regimes (in the next 60-90 years; in cooperation with the department of environmental meteorology) is supposed to enable us to derive profit analysis of wind energy plants with different rotor heights and involving switchoff-algorithms used for bat conservation.

The applicants should be qualified in the field of stochastic, individual based, population modelling, which is verified by publications in international professional journals. The contribution of this expertise in other projects of the department of biogeography is explicitly encouraged.

Please submit your application with the common documents (since we will not return the documents, please apply only electronically) until November 24th 2013, addressed to Prof. Dr. Michael Veith (veith@uni-trier.de) and PD Dr. Axel Hochkirch (hochkirch@uni-trier.de). Seriously disabled applicants as well as women will be favoured if they have the proper qualifications.

Dr. Axel Hochkirch Trier University Department of Biogeography Universitätsring 15 D-54286 Trier Tel. 0651-201-4692 Fax. 0651-201-3851

“Hochkirch, Axel, PD Dr.” <hochkirc@uni-trier.de>

UAkron Ohio EvolutionColoration

A post-doctoral position in mechanisms and/or evolution of animal coloration is available in the Shawkey lab at the University of Akron in Ohio, USA. We are examining how pigments and organization of tissue at the nanostructural scale in feathers and eggs contributes to their optical (coloration, iridescence) and non-optical (tensile strength, hydrophobicity, etc.) properties. In turn, we are examining how these properties may affect their evolution, particularly in regards to sexual selection and brood parasitism.

Specific projects will depend on the interests of the post-doc, but will likely involve use of electron and light microscopy, chemical analyses (Raman, mass spec, etc.), spectrophotometry, phylogenetic and/or optical modeling and potentially some fieldwork with brood parasitic birds. The post-doc will be expected to write and contribute to manuscripts for publication in peer-reviewed journals and to grants for additional funding. Minimum qualifications for both positions are a Ph.D. in physical or life sciences by the time the position starts. The successful candidate will be highly motivated, interested in interdisciplinary work and able to work independently. The best metric of these characteristics is a record of peer-reviewed publication.

For complete details and to apply for this position, visit: <http://www.uakron.edu/jobs/>. Job # 8123. Both positions are available immediately and are grant funded for a period of two years that renew annually. Salary will be commensurate with experience. For further information on our lab group, please see <http://gozips.uakron.edu/~shawkey>. The University of Akron is committed to a policy of equal employment opportunity and to the principles of affirmative action in ac-

cordance with state and federal laws

shawkey@uakron.edu

UArizona EcoEvolutionaryTheory GeneNetworkEvolution

Postdoc position in either eco-evolutionary theory or the evolution of gene networks.

A postdoc position is available to work with PI Joanna Masel (<http://eebweb.arizona.edu/faculty/masel>) at the University of Arizona in Tucson, on one of the two projects described below. A popular tourist destination surrounded on all four sides by mountainous national and state parks, Tucson is a vibrant city of nearly a million people with an attractive climate. The EEB department in Tucson was ranked in the top 10 by US News & World Report.

The Masel group's main research interests <http://www.eebweb.arizona.edu/faculty/masel/research/index.html> are in robustness and evolvability, using a mixture of analytical theory, bioinformatic and simulation approaches. One position (on either project) is available immediately, a second is contingent on pending funding. The available position is renewable over multiple years.

The first project will study evolutionary rescue in the presence of clonal interference, via a model of asexual population genetics (based on Desai & Fisher 2007). This model will be modified so that genotypes specify absolute fitness in a deteriorating environment, rather than relative fitness as is the norm in population genetics. The project will explore the integration of density-dependence terms r and K with the classical population genetics fitness term of w , as part of an eco-evo theoretical synthesis. A strong quantitative background together with computational and/or modeling experience is required. A background in evolutionary and/or ecological theory is strongly preferred.

The second project involves completing the implementation of a computational model of transcriptional networks that is both realistic enough to be related to yeast data and simple enough for evolution to be rapidly simulated. The model will then be used to study a range of questions, including network topology and the evolution of robustness/canalization to mutation, to the environment, and to the stochasticity associated with small numbers of molecules in cells. Excellent scientific

programming skills are required, with proven software management skills preferred. Experience in evolutionary biology, genomics, systems biology, mathematical modeling and/or the biology of transcription factors and their binding sites is preferred.

Contact Joanna Masel at masel@u.arizona.edu for more information and to apply for either position.

masel@email.arizona.edu

UAuckland EvolutionLanguages

Post Doctoral Research Position

Closing date: 1st December 2013.

School of Psychology & Department of Computer Science University of Auckland

Salary Range: \$77,000-85,000 per annum

The Language, Cognition and Culture Lab and the Computational Evolution Group at the University of Auckland seek to appoint a postdoctoral researcher to join our team investigating the evolution of the world's languages.

This research will be led by Dr Quentin Atkinson, Prof Russell Gray, and Dr Remco Bouckaert. Our work over the last decade has pioneered the application of computational modeling techniques from biology to answer questions about human prehistory and the evolution of language and culture.

The project's primary objectives are the collation of linguistic data from around the world and developing new approaches to inferring deep relationships between the world's languages.

This is a full time post for a fixed-term of three years, funded by a Royal Society of New Zealand Marsden Grant. The role will be supported by a part-time research assistant.

Applicants should have a PhD or equivalent and a demonstrable research interest in modeling the evolution of language and culture. Programming and database experience and a background in linguistics or evolutionary biology/anthropology is preferred.

More information about the research interests of the project leaders is available from our websites:-

<http://www.fos.auckland.ac.nz/~quentinatkinson/>
<http://www.psych.auckland.ac.nz/uoa/russell->

<http://www.cs.auckland.ac.nz/~remco/>
<https://www.facebook.com/LCCLab> <http://-compevol.auckland.ac.nz/> Host Institution: The University of Auckland is New Zealand's leading university. In the 2013 QS survey, the Psychology Department was ranked 22nd in the world and the Computer Science Department ranked 38th. The University of Auckland has a strong international focus and is the only New Zealand member of Universitas 21 and the Association of Pacific Rim Universities - international consortia of research-led universities. Auckland is ranked third out of 221 world cities for quality of living in the 2012 Mercer Quality of Living Survey (see www.mercer.com/qualityofliving).

All enquiries should be directed to Dr Quentin Atkinson: q.atkinson@auckland.ac.nz

UAuckland YeastAlcoholEvolution

Post-doctoral position School of Biological Sciences University of Auckland New Zealand

For two years in the first instance. Starting Feb 2014. Applications should comprise a CV and covering letter, with any supporting documentation as appropriate. Closes 24th Dec 2013.

The ecology of ethanol production This is an exciting opportunity to conduct research concerning the ecology and evolution of yeasts in relation to alcohol production during fermentation. This work will be part of a program seeking to produce high quality, naturally produced lower alcohol wines. This position will fuse fundamental research investigating the ecological and evolutionary drivers of alcohol production by *S. cerevisiae*, and how intra- and inter-species interactions may modulate this trait, with applied work to understand how this trait may be reliably manipulated by the NZ wine industry.

Candidate specifications The successful candidate will have a PhD in Biological Sciences, ideally a PhD in an area fusing microbial ecology, evolution and genetics.

Responsibilities * Conduct independent research. * To adhere to contract research timelines. * To collaborate with multi-disciplinary team of chemists, plant physiologists, sensory scientists, marketing specialists and NZ wine companies. * Coordination of communication of findings to research partners and the NZ Wine industry in written and oral forms. * Author, or co-author,

publications arising from research in refereed journals of international repute, as well as industry publications.
* Disseminate research results at national/international academic conferences and national/international industry forums.

The successful candidate will have experience with microbiological techniques. Ideally the candidate will have a strong background in ecology and evolution (particularly intra and inter species interactions), experience with yeast growth and fermentation, yeast genetics and biochemistry and some experience with metabolite analyses (especially ethanol). The ideal candidate will have a good grasp of the statistical analyses of ecological and evolutionary data.

This role requires an independent results driven candidate who can deliver. This role fuses fundamental and applied science. Thus, the candidate must be operate in an interdisciplinary manner and able to understand and communicate experimental concepts and data from both these perspectives. The candidate must be able to work with collaborating staff in NZ wine companies. The ideal candidate will be a critical and independent thinker. In particular, the candidate must be mindful of contract timelines and ensure results delivery. One area of key importance is the ability to work with collaborating wine companies when conducting larger scale ferment trials. This will require flexibility and travel around NZ and periods away. Interpersonal skills and commercial acumen are highly desirable.

All travel to, and permits for work in, New Zealand are the responsibility of the candidate.

All enquiries and applications to Dr Matthew Goddard - m.goddard@auckland.ac.nz

<http://goddardlab.auckland.ac.nz> Mat

Dr Matthew R Goddard School of Biological Sciences
The University of Auckland Private Bag 92019 Auckland
Mail Centre Auckland 1142 New Zealand

Office: +64-9-923-9537 Mobile: +64-21-2420397

<http://goddardlab.auckland.ac.nz> Matthew Goddard
<m.goddard@auckland.ac.nz>

UBritishColumbia Biodiversity

Biodiversity Research Centre, The University of British Columbia

Fellowship Opportunity

The next application deadline is January 13, 2014.

As a part of our NSERC CREATE training program in biodiversity research, we seek applicants for a 2-year postdoctoral fellowship in the U.B.C. Biodiversity Research Centre (www.biodiversity.ubc.ca). The Centre is made up of over 50 faculty members with interests in ecology, evolution, systematics, biodiversity and conservation. Preference will be given to candidates with bold ideas, demonstrated research ability, and strong communication skills. The successful candidate will be expected to conduct original research on core problems in biodiversity, foster interactions within the Centre, run a seminar series, and organize a retreat. Postdoctoral fellows funded by the Biodiversity Research Centre typically interact with several lab groups. Candidates are welcome to contact potential collaborating labs in the Centre to inquire about current and potential research activities, but it is not necessary to apply to work with a specific faculty member.

Starting date, 1 September 2014.

Salary \$43,000 per yr.

Research stipend: \$7,000 per yr.

Send curriculum vitae, three letters of reference, and a statement of overall scientific goals and interests (approximately 2 pages) to the address below. Applications and Reference letters will be accepted electronically; reference letters must be sent directly by the referee.

Search Chair, Biodiversity Research Centre, U.B.C.,
6270 University Blvd., Vancouver, B.C., Canada V6T 1Z4.

(Fax 604-822-2416, e-mail biodiversity.centre@ubc.ca).

Closing date for application, 13 January 2014.

The University of British Columbia hires on the basis of merit and is committed to employment equity. We encourage all qualified candidates to apply.

Lebby Balakshin <admin@biodiversity.ubc.ca>

**UCalifornia Davis
EvolPlantGenomics**

Post-doctoral position with Sharon Strauss (UC Davis) and Maren Friesen (MSU) on the role of symbionts in

promoting coexistence between sympatric, congeneric clover species. We will examine rhizobia and other soil biota in determining *Trifolium* transcriptomes and outcomes of interactions between, and niche differences influencing coexistence of, 8 native annual *Trifolium* species at the Bodega Marine Reserve and across California.

The Bodega Marine Coastal Reserve is a two-hour drive from Davis. Post-doc will reside in Davis, but should expect to spend some overnights at the Bodega Marine lab for field surveys and experiments. Post-doc must be able to drive a car.

Post-doc will be responsible for field experiments, descriptive field collections of traits and nodules and surveys documenting co-occurrence patterns of species, as well as greenhouse experiments manipulating rhizobia, soil and neighboring plant species. Students and a technician will aid in these data collections. Opportunities are available to develop expertise in transcriptomes and genomic analyses. Phylogenetic analyses of traits and niches will also be shared between Strauss and Friesen lab.

Post-doc will sit in Strauss lab at UC Davis and participate in lab meetings, as well as in the vibrant ecological and evolutionary activities at UC Davis, such as seminar series, etc.

Another post-doc (separate application) will sit in Friesen lab at MSU and will be focused on rhizobial genomes and *Trifolium* transcriptomes. The post-doc based in the Friesen lab will be responsible for the production and analysis of large-scale next-generation sequencing datasets in collaboration with a technician and graduate student. Together, the ecological and genomic datasets will be integrated with phylogenetic data to address fundamental questions about the niche and species coexistence. The two labs will collaborate and interact extensively.

Post-docs will receive mentoring on professional development from Strauss and Friesen.

Start date is flexible.

To apply, please send a 1-2-page cover letter stating your interest in the job, your CV and a list of three referees to systrauss@ucdavis.edu with 'Trifolium postdoc' as the subject. For full consideration, please send your application materials by November 30, 2013. For questions, please contact me via email: systrauss@ucdavis.edu

Please contact mfriesen@msu.edu for more details about the MSU position.

The University of California is an Equal Opportu-

nity/Affirmative Action Employer with a strong institutional commitment to the development of a climate that supports equality of opportunity and respect for differences.

Sharon Y. Strauss Professor and Chair, Evolution and Ecology Director, REACH IGERT: Responding to Rapid Environmental Change. <http://reach.ucdavis.edu/> 2320 Storer Hall, One Shields Ave., Davis, CA 95616 Ph: 530-752-8415 Fax: 530-752-1449

Sharon Strauss <systrauss@ucdavis.edu>

UChicago Computational PopGenomics

Postdoctoral Position in regulatory genomics at University of Chicago

A position is available for a highly motivated postdoctoral researcher in the group of Barbara Stranger at The University of Chicago, in the Section of Genetic Medicine, and the Institute of Genomics and Systems Biology.

The researcher will be involved in analysis of a variety of types of human genomics data, including DNA-Seq, RNA-Seq, SNPs, DNA methylation, etc. Current research in the lab includes (1) transcriptional network and pathway analysis; (2) comparative and population genomics; (3) functional genomic data integration, management, and extensive data mining; and (4) detection of disease susceptibility genes/networks. Project topics include understanding the role of genetic and epigenetic variation on transcriptional regulation in healthy human cohorts, and the contribution of that variation to higher order phenotypes including immune-mediated diseases and cancer. In all of our projects, we seek to elucidate the evolutionary forces shaping functional genomic variation within and between human populations.

We seek applicants who are creative, curious, enthusiastic, and can work independently. Applicants should have strong computational or statistical skills, with a demonstrated interest in biological applications. A background in genomics or population genetics and evolution is preferred.

To formally apply, please send the following in PDF format to Barbara Stranger (bstranger@uchicago.edu):

1. A curriculum vitae, including names of 3 referees.
2. A brief statement describing current and future research goals

Our lab website is currently under construction, but informal inquiries are welcome. For more information, see <http://www.igsb.org/careers/postdoctoral-position-in-regulatory-genomics-at-university-of-chicago> Barbara E. Stranger, PhD Assistant Professor of Medicine Department of Medicine, Section of Genetic Medicine Institute for Genomics and Systems Biology University of Chicago

tel: 773-702-4301 fax: 773-702-2567

Barbara E. Stranger, PhD Assistant Professor of Medicine Department of Medicine, Section of Genetic Medicine Institute for Genomics and Systems Biology University of Chicago

tel: 773-702-4301 fax: 773-702-2567

bstranger@medicine.bsd.uchicago.edu

UCollege London Bioinformatic- sComparativeGenomics

Research Associate / Senior Research Associate: Bioinformatics and Comparative Genomics : London, United Kingdom

* * * *

UCL Division of Biosciences ResearchResearch Associate/Senior

Research Associate: Bioinformatics and Comparative Genomics

This appointment is full time on UCL Grade 7/8. The salary range will be Â£32,375 - Â£39,132 Grade 7 & Â£40,216 - Â£47,441 Grade 8, inclusive of London Allowance.

The Telford Lab is seeking an experienced bioinformatician to lead the computational aspects of an interdisciplinary project funded by an ERC advanced grant.

The Research Associate or Senior Research Associate (depending on experience) will use next-gen sequencing data to perform de novo assembly and annotation of genomes and transcriptomes of several members of a phylum of marine worms with an unexpected evolutionary history. They will develop methods to make sense of the genome resources from this newly identified phylum

of deuterostome. Supported by the experimental teammates, the Research Associate/Senior Research Associate will integrate the genomes/transcriptomes with new and existing data on morphology, ultrastructure and developmental genetics in these and related species.

The successful candidate will work in close collaboration with the PI and 3 experimentalists, and will be involved in the supervision of a newly hired computational biology PhD student. To be appointed at the higher grade the successful candidate will hold an independent research reputation, with evidence of national recognition of achievement within the appropriate subject area.

Funding is available until 31st May 2018 in the first instance.

To be appointed, the successful applicant must have a PhD (or about to be awarded) in Bioinformatics/Computer Science or related subject and a proven track record of high quality research in bioinformatics/molecular evolution/biology/comparative genomics.

For further details about the vacancy and how to apply online please go to <http://www.ucl.ac.uk/hr/jobs/> and search on Reference Number 1377153.

Informal enquiries on the post can be directed to Professor Max Telford (m.telford@ucl.ac.uk).

For informal enquiries regarding the application process, please contact Christine Davis (christine.davis@ucl.ac.uk).

Closing Date: 14th December 2013.

Latest time for the submission of applications: 4pm.

We particularly welcome female applicants and those from an ethnic minority, as they are under-represented within University College London at this level.

UCL Taking Action for Equality

Max Telford Professor of Zoology Department of Genetics, Evolution and Environment, University College London, Darwin Building, Gower Street, London WC1E 6BT, UK. Tel: +44 (0)20 7679 2554 (Internal: 32554) Fax: +44 (0)20 7679 7096 <https://www.ucl.ac.uk/gee/gee-staff/academic-staff/-index/max-telford> a new open access journal *EvoDevo*: <http://www.evodevojournal.com/>

Telford & Littlewood: Animal Evolution. OUP < <http://ukcatalogue.oup.com/product/9780199570300.do> >

Software to align Nucleotide sequence according to Amino Acid translation TranslatorX < <http://->

www.translatorx.co.uk >

Files and software for downloading: <
<http://web.mac.com/maxtelford/iWeb/Work/-Downloads.html> >

Mrimpatient: If you cant wait to see latest result of MrBayes analysis. Xstem and Ystem: Software for 2y structure data in rRNA phylogenetic analyses. MtZoa and MtHydro : new amino acid substitution matrices Hacked version of MrBayes using these matrices

Xenoturbella You Tube video < <http://uk.youtube.com/watch?v=yJXNcoxL2Xs> >

The Linnean Society of London < <http://www.linnean.org/> >

“Telford, Max” <m.telford@ucl.ac.uk>

UFlorida InsectFungusSymbiosis

Postdoc: Insect-Fungus Symbiosis - Looking for a postdoc position? - Do you have experience with any of the following: * diversity and genetics of fungi * high-throughput marker-based community surveys * next-gen sequencing library preparation - Do you want to work in one of the best-to-live-in towns in America? - Join our growing Symbiology team at the University of Florida to study the Ambrosia Symbiosis: beetles that farm fungus gardens to kill and digest trees. www.ambrosiasymbiosis.org - Please send your CV to Jiri Hulcr, hulcr@ufl.edu. - Application deadline: December 10, 2013

Jiri Hulcr, Assistant Professor University of Florida | School of Forest Resources and Conservation 352-273-0299 | www.ambrosiasymbiosis.org “Hulcr,Jiri” <hulcr@ufl.edu>

UFlorida Phylogenetics

Post-doc in phylogenetics A post-doc position is available at the University of Florida (Gainesville, Florida) to work with Rebecca Kimball (<http://people.biology.ufl.edu/rkimball>) and Edward Braun (<http://people.biology.ufl.edu/ebraun>) on the phylogeny and evolution of the Galliformes. The order

Galliformes includes the two most economically important birds (the chicken and turkey; both with complete genomes), some of the most spectacular and recognizable birds (such as peafowl and pheasants), and some of the most important avian model systems (e.g., the chicken and Japanese quail). Despite intensive research on galliforms in many areas, their evolutionary relationships remain poorly resolved. This project is partially completed. We already have a large amount of data collected, including a large number of loci (ultra conserved elements) for a set of backbone taxa, and a smaller set of loci (nuclear introns and mitochondrial data) that we are collecting for the majority of species. One problem is this group arises from several rapid radiations at different evolutionary depths, and the collection of data from large numbers of loci will allow us to explore factors affecting resolution of these difficult phylogenetic problems. The data matrix will also allow examination of patterns of avian molecular evolution, complementing existing information available from mammals, while the resulting phylogeny should benefit comparative studies. Candidates should have completed a PhD (or will very soon) and have a good knowledge of phylogenetics. Ideal candidates will also have a background in computational phylogenetics or experience in managing and analyzing large phylogenetic datasets. Knowledge of birds (particularly galliforms) is not required (but always a plus). We anticipate publications that are focused on using empirical and simulated data to explore questions in phylogenetic methodology and molecular evolution, as well as those focused on taxonomic questions. Up to 1.5 years of funding is available. Questions and applications should be addressed to Rebecca Kimball (rkimball@ufl.edu). Applications should include: 1) a cover letter outlining your research experiences, interests and career goals; 2) a c.v. including the names and contact information for at least 3 references; and 3) copies of up to 3 publications or manuscripts in review. Applications received by Nov. 25, 2013 will receive the highest consideration but later applications may be considered. Position could begin as early as Jan 2014.

Rebecca Kimball Assoc Professor and Graduate Coordinator Dept. of Biology University of Florida

rkimball@ufl.edu rkimball@ufl.edu

UHalle BeeEvolution

Postdoctoral Research Fellow in Insect Ecology and

Evolution University of Halle (Germany) Application deadline: 8 December 2013

A research scientist/assistant professor is sought for a TV-L 13 position to join the Paxton lab at the University of Halle, Germany. Broad research themes of the group are host-parasite interactions, pollination, conservation biology and social evolution: <http://www.zoologie.uni-halle.de/-allgemeine.zoologie/research/> The groups taxonomic focus is on insects, particularly bees, it draws heavily on molecular genetics, and research infrastructure is excellent. We seek a highly motivated individual with strong quantitative skills who can work independently to develop a research program aligned to one or more of the groups themes and contribute to teaching at undergraduate and postgraduate levels within general zoology.

Halle is a delightful, historic city of a quarter million people with a large, research-intensive university situated 260 km southwest of Berlin and 40 km from Leipzig. You will be a member of a supportive and dynamic group that interacts closely within and outside the university, including with the UFZ-Helmholtz Environmental Research Center at Halle-Leipzig: <http://www.ufz.de/index.php?en=11382> and with the newly established DFG-funded biodiversity center iDIV: <http://www.idiv-biodiversity.de/idiv-global/?lang=en> a collaboration of the universities of Halle, Leipzig and Jena.

Applicants must hold a university doctoral degree in biology or a related discipline. Familiarity with insect ecological techniques and data analysis is preferable. Applicants should have a proven track record in publishing high quality scientific papers. Experience in writing grant applications and past success in attracting research funding is of advantage. The working language of the group is English, though knowledge of basic German, or willingness to learn within two years, would be an advantage. The position is fixed term, initially for 3 years, commencing 1 February 2014 or as soon as possible thereafter, with the possibility of extension for a further 3 years. The salary is at the German standard postdoctoral rate (TV-L 13, 100%). The University of Halle is an equal opportunity employer.

Further details of the position can be obtained from Robert Paxton (email below), to whom applications should be emailed as a single pdf file, to include (i) a letter of motivation, (ii) cv, (iii) list of publications, (iv) list of externally acquired funds, (v) a single page on research achievements and future plans, and (vi) contact details of three referees, by 8 December 2013. Interviews are scheduled for 10 January 2014. Prof.

Robert Paxton, General Zoology/Institute of Biology, Uni. Halle, Hoher Weg 8, D-06120 Halle/Saale, Germany. Tel.: +49-345-5526500; Email: robert.paxton[at]zoologie.uni-halle.de

Robert Paxton <robert.paxton@zoologie.uni-halle.de>

UHawaii Manoa MarinePhysioEvolution

University of Hawaii at Manoa: Postdoctoral Research Position - Marine Larval Physiology and Evolution

A postdoctoral position is available immediately to study developmental, biochemical, physiological responses of marine invertebrate larvae to selection in the laboratories of Amy Moran and Peter Marko in the Biology Department at the University of Hawaii at Manoa. Projects will focus on physiological adaptation and the rapid evolution of life history traits. A Ph.D. in ecology or comparative physiology, marine biology, larval biology, or a related field is required. Preference will be given to candidates with experience in molecular, physiological, and biochemical techniques, including biochemical and enzyme assays and genomics, and to applicants with experience in rearing marine organisms. Candidates please send a cover letter, statement of research interests, CV and names and email addresses of three references to morana@hawaii.edu. Review of applications will begin immediately and continue until a candidate is selected. Salary will be determined based on experience level.

Peter Marko <pmarko@hawaii.edu>

UHelsinki DiseaseEvolution

4-year Post Doc position in the research project

“Opportunistic pathogens: virulence, disease dynamics and evolution”

at the University of Helsinki, Finland

Time: 1.9.2013-31.8.2017

We offer a 4-year Post Doctoral position to a theoretically oriented researcher.

The person will work on the theory of epidemics. The emphasis of the work is in developing and analyzing the models of disease dynamics. The central idea of the study is the observation that many pathogens are able to survive and grow in the outside-host environment, e.g., via saprotrophism. The project develops the theory starting from a largely unfamiliar viewpoint where pathogen eco-evolutionary dynamics is modeled assuming that the pathogen is embedded within a realistic food web where the organism has to face e.g. the predators and parasites, and resource competition. The project is headed by professor Veijo Kaitala. The work will be done in the Helsinki University Integrative Ecology research group addressing themes in ecological and evolutionary population dynamics such as epidemiology, spatial population dynamics, community dynamics, and fisheries.

We expect that the candidate is experienced in programming and dynamical modelling. Experience in MatLab or R softwares/languages are appreciated.

Applications: We ask applicants to send CV (including possible list of publications), a letter of intent explicitly stating previous programming and statistical experience, and 1-2 letters of references.

Applications are due 1.10.2013 and should be sent by email as one single pdf file to prof. Veijo Kaitala.

Further information:

Prof. Veijo Kaitala (Veijo.Kaitala@helsinki.fi)

Dr. Jouni Laakso (Jouni.Laakso@helsinki.fi, <http://jounilaakso.blogspot.fi/>)

Jouni Laakso <jouni.laakso@helsinki.fi>

UJyvaskyla EvolutionParasiteCoinfections

Postdoctoral researcher position at University of Jyväskylä, Department of Biological and Environmental Science, Finland

EVOLUTIONARY ECOLOGY OF PARASITE CO-INFECTIONS

We are looking for candidates to fill a postdoctoral position in a project exploring responses of parasites and their hosts to multiple parasite species and genotype infections. The position is funded by the Academy of Finland.

Wild hosts are typically infected with a range of parasite species and genotypes of one species at the same time. This has significant implications for parasite-parasite interactions (one factor underlying parasite virulence) and for host's ability to defend itself against infections. These associations may also be subjected to considerable variation depending on the stage of a parasite life cycle. This is particularly true for parasites with complex life cycles that include several consecutive hosts with different conditions for co-infections in each. However, very little is currently known about these interactions in natural host-parasite systems. Currently, we focus on

- the role of antagonistic and facilitative parasite interactions in shaping co-infection dynamics

- the role of host responses in determining the outcome of multiple infections

- the influence of spatiotemporal dynamics of host-parasite interactions on patterns of parasite community assembly

Considerable latitude in specific research questions will be given according to personal interests of the candidate.

As a study system we use mainly trematodes with complex life cycles including multiple consecutive host species.

A successful candidate will have a PhD in evolutionary biology, ecology, parasitology, or related field. We are seeking for a highly motivated person with problem solving skills, experience of experimental work, and a record of successful publications.

We offer stimulating working environment in an international Department < <https://www.jyu.fi/bioenv/en> > that houses several internationally recognized research groups and the Centre of excellence in Biological interactions < <https://www.jyu.fi/bioenv/en/divisions/coe-interactions> > funded by the Academy of Finland.

Application deadline: 20 December 2013

Starting date: immediately but negotiable

Duration of the position: 2 years with a possible extension

Salary: 3000-3500 Euros per month depending on the qualifications of the candidate. Health insurance and other benefits are included.

Send a brief letter of motivation, CV, list of publications, and contact details of two references as a single PDF to Dr. Anssi Karvonen (anssi.t.karvonen@jyu.fi). For more information visit

<http://users.jyu.fi/~anskarv/> Dr. Anssi Karvonen
 anssi.t.karvonen@jyu.fi

Karvonen Anssi <anssi.t.karvonen@jyu.fi>

Apply for this position (Requisition #188311) via the University of Minnesota Office of Human Resources website: https://employment.umn.edu/applicants/-jsp/shared/position/JobDetails_css.jsp?postingId=-657343 Georgiana May <gmay@umn.edu>

UMinnesota MicrobialEvolution

POST-DOCTORAL OPPORTUNITY IN MICROBIAL ECOLOGY AND EVOLUTION

University of Minnesota

Our research group seeks to hire two to three post-doctoral associates in the ecology and evolution of plant-associated microbes. Successful applicants will work on an experimental project with global reach as part of a team of ecologists and evolutionary biologists spanning the University of Minnesota's departments of Ecology, Evolution, and Behavior and Plant Pathology. The appointment is for one year (with potential for renewal), to begin as soon as possible. The scientific goal of these positions is to examine the abiotic and biotic predictors and functional significance of fungal, bacterial, and viral symbionts of plant hosts, and determine plant microbiome effects on disease transmission. Experiments will encompass scales ranging from individual hosts and local host communities to regional and global bioclimatic and soil gradients. Projects will include quantification of bacterial, fungal, and viral communities within hosts using high-throughput sequencing and manipulative experiments in both the field and lab to examine the effects of the plant-associated microbial community on host fecundity and pathogen resistance, and on microbial fitness and transmission. Successful applicants will have the opportunity to work with mathematical modelers to use empirically-derived parameter values and test predictive models. We are particularly interested in applicants with metagenomics or organismal expertise in microbial biology and training in community ecology or evolutionary biology. Successful applicants will have experience and ability in laboratory techniques necessary for high-throughput sequencing and quantitative skills for manipulating and analyzing metagenomic or ecological datasets. A conceptual overview of the larger project is described in Borer *et al.* 2013 (found at: <http://dx.doi.org/10.1016/j.baae.2013.08.009>).

Questions about these positions should be addressed to Dr. Georgiana May (gmay@umn.edu).

Review of applications will begin on 10 December 2013.

UMontana GenomicsSymbiosisMicroscopy

A postdoctoral position is available in the McCutcheon lab at the University of Montana in Missoula. Our group is interested in symbioses between animals and microorganisms, with a focus on systems involving insects. This position will be supported by a recently funded NSF grant aimed at understanding the mechanistic details of the symbiosis between sap-feeding insects and their bacterial symbionts (e.g. McCutcheon and Moran, 2012, *Nature Reviews Microbiology* 10:13-26; Husnik *et al.*, 2013, *Cell*, 153:1567-1578). The position will be for up to two years in length, and will come with a competitive salary and full benefits.

The successful applicant will have a PhD in a discipline related to evolutionary biology, biochemistry, molecular biology, or computational biology. The focus of this position is somewhat flexible, but applicants with experience with immunoelectron microscopy, fluorescence in situ hybridization, or genomics will be most competitive. However, anyone with a solid background in experimental or computational biology and a strong desire to work in this system is encouraged to apply.

Our group is a small (4-6 people), dedicated, and friendly collection of scientists with diverse backgrounds. We are part of a vibrant collection of highly interactive laboratories studying diverse aspects of evolutionary genomics. Missoula is a friendly, livable mountain town located at the junction of three rivers, and is less than a half-day drive from both Glacier and Yellowstone National Parks. Interested applicants can read more about the lab, Missoula, and the University of Montana at our webpage (mccutcheon-lab.dbs.umt.edu).

Visit the UM Jobs posting of the position at <http://bit.ly/1etfB4j> to apply online for full consideration. Requested application materials include: letter of interest; CV; and names of 3 references.

Review of applications will begin immediately and will continue until the position is filled. The preferred start

date is flexible and will depend on the timeframe of the most qualified applicant. Please contact John McCutcheon via email (john.mccutcheon@umontana.edu) with informal inquiries about the position.

John McCutcheon Assistant Professor, University of Montana Associate Member, Canadian Institute for Advanced Research

University of Montana is an ADA/EOE/AA/Veteran's Preference Employer

john.mccutcheon@mso.umt.edu

USDA AthensGA ViralEvolution

Virology Postdoctoral Appointment Agricultural Research Service (ARS) U.S. Department of Agriculture Athens, GA ARS-SEPRL-2013-0013 Project Description:

A virology postdoctoral research opportunity is available with the U.S. Department of Agriculture (USDA) Agricultural Research Service (ARS) Southeast Poultry Research Laboratory (SEPRL) in Athens, GA. The selected applicant will conduct research on avian influenza viruses looking to understand the impact of virus genetics on virulence in poultry and co-analysis of phylogenetic and epidemiologic information to understand the movement of the virus between farms and regions.

Qualifications:

To be eligible, applicants must have received a doctorate degree in an area related to infectious diseases within five years of the desired starting date. Relevant fields include virology, infectious diseases, pathology and molecular biology. A doctor in veterinary medicine (D.V.M.) in addition to the previously mentioned degree is preferred but not required.

The ideal candidate will:

- * Have strong molecular biology skills, including PCR amplification, cloning, sequencing, site directed mutagenesis and bioinformatics
- * Have training and experience in epidemiology
- * Have specific experience in virology and influenza including virus culture and aseptic technique
- * Have BSL-3 laboratory experience as this position requires work in a biocontainment laboratory
- * Have experience in phylogeography and molecular clock techniques

While participants will not enter into an employment

relationship with ARS, this position requires a pre-employment check and a full background investigation.

This opportunity is available to U.S. citizens, Lawful Permanent Residents (LPR) and foreign nationals.

This is an equal opportunity program open to all qualified individuals without regard to race, color, age, sex, religion, national origin, mental or physical disability, genetic information, sexual orientation, or covered veterans status.

Additional Information:

The appointment is full-time for one year and may be renewed for up to four additional years upon recommendation of the ARS and availability of funding. The annual stipend rate for this position is \$47,448. A stipend supplement in the amount of \$3,000 is also provided to cover the cost of an individual or family health insurance plan. The participant must show proof of health and medical insurance. Health insurance can be obtained through ORISE. Relocation expenses in the amount of \$500 will be reimbursed, with prior approval. Funding in the amount of \$1,500 is available to reimburse travel-related expenses to scientific and professional development activities. The participant does not become an employee of ARS or ORISE.

For additional information about the ARS Postdoctoral Research Program, please visit <http://www.orise.orau.gov/usda-ars> . How to Apply:

An application can be found at <http://orise.orau.gov/usda-ars/applicants/application.htm>. Please reference Project #ARS-SEPRL-2013-0013 in your application and when calling or writing for information.

“Nelson, Martha (NIH/FIC) [V]”
<nelsonma@mail.nih.gov>

USouthernCalifornia EvolBiology

Evolutionary Biologists may wish to apply their perspective to this multidisciplinary postdoctoral opportunity:

<http://dornsife.usc.edu/sustainability-opportunities/>
The University of Southern California, Dornsife College of Letters, Arts and Sciences, seeks to advance its portfolio of interdisciplinary research in Sustainability, and to provide a vibrant training ground for research at the interface of the natural sciences, social sciences and humanities. As part of this growing emphasis,

a fully funded, one-year (renewable for second year) post-doctoral position is available to support an entrepreneurial young scholar eager to bridge disciplines and embark upon novel research in this broad field.

A sustainable world is one in which humans can meet needs and make progress without harm to the environment and with accommodation to both present and future generations. Integral to this view is the simultaneous consideration and evaluation of social, economic, and environmental systems, including their behavior and longevity. We are looking for innovative PhD's who wish to use a post-doc to build bridges across areas of academic inquiry and develop new partnerships within the university. Successful applicants will work between two (or more) mentors to develop and implement a novel interdisciplinary sustainability project that involves working across the natural sciences, social sciences and/or humanities.

General features of sustainability research often include the study of complex adaptive systems and emergent behavior; multiscale processes; resilience and vulnerability of human-natural systems.

Submission process: Applicants should provide a 2-page summary of their research project; letters of endorsement from the sponsoring faculty members; a CV and a letter of recommendation from their dissertation advisor. We offer a competitive salary/benefits and a research stipend. Questions regarding this position should be addressed to Dr. William Berelson at stfpostdoc@usc.edu. Interested applicants should apply online at jobs.usc.edu/applicants/Central?quickFind=257. A review of applications will begin Feb. 1, 2014. For further information go to: <http://dornsife.usc.edu/sustainability>. USC values diversity and is committed to equal opportunity in employment. Women and men, and members of all racial and ethnic groups are encouraged to apply.

Areas in the Natural Sciences of particular strength include: Green Chemistry/Pharmaceuticals Marine microbiology and HABs Aquaculture (oysters) C cycle, biogeochemistry Conservation and Population dynamics Genomics Alternative energy C sequestration Hazard/Risk analysis—Earthquakes Ecology/Molecular Biology

Areas in the Social Sciences of particular strength include: GIS and Spatial systems analysis Psychology of habits/decision-making Environmental Justice International Relations, the politics of environmental decision-making

Areas in the Humanities of particular strength include: Environmental History History of Environmentalism

Environmental Ethics Intergenerational Ethics

Roberta L. Marinelli, Ph.D. Director, Wrigley Institute for Environmental Studies 3616 Trousdale Pkwy, AHF 410, University of Southern California Los Angeles, CA 90089-0371 213-740-4861 (O) 213-740-6720 (FAX)

Roberta Marinelli <rmarinell@dornsife.usc.edu>

USurrey QuantGenetics

The Department of Mathematics at the University of Surrey invites applications from enthusiastic and well-qualified students for a PhD studentship in the Quantitative Genetics of Maternal Effects.

Maternal effects can be described as the effects of a mother's phenotype on her offspring's phenotype through pathways other than direct genetic transmission, for example through epigenetic changes in the DNA, resource transmission in the womb, or behavioural responses to offspring behaviour. The aim of this project is to develop quantitative genetics models of the evolution of maternal effects in response to environmental change and examine the interplay between maternal effects and within-generation phenotypic plasticity.

The project will be supervised by Prof Rebecca Hoyle in the Biosystems Group. The successful candidate will join this group which has an excellent international reputation and a lively community of PhD students and postdoctoral researchers. Academic members of the group have extensive collaborations and links with other research institutions from around the globe as well as world-leading industries.

In general, the Department of Mathematics hosts four vibrant and highly rated research groups with interests focusing on themes on the interface between pure and applied mathematics. In the latest Research Assessment Exercise (RAE), the Department was ranked 7th out of 42 in the UK for its world-leading research outputs.

For further information about the Biosystems Group, see <http://www.surrey.ac.uk/maths/research/-groups/bs/> and about the department, see <http://www.surrey.ac.uk/maths/>. For details about our PhD Programme please refer to <http://www.surrey.ac.uk/maths/study/pgr/>. Entry Requirements.

A good MMath, MPhys or MSc degree or a first class

honours degree in mathematics, physical sciences or engineering. A particular interest in biology is desirable.

Funding.

The PhD studentships include the tuition fees and a tax-free stipend of about £14,000 p.a. All PhD students have access to funding for travel to meetings and conferences.

How to Apply.

Applicants should complete the on-line application form at <http://www.surrey.ac.uk/postgraduate/courses/physicalsciences/mathematics-phd/>. This application must be accompanied by the following:

Cover letter (one A4 page maximum) CV including names of academic referees (two A4 pages maximum) Personal statement including research interests and experience (one A4 page maximum) Copy of certified transcript including expected or actual degree class (no page limit)

Accepted minimum font size is 11pt. Once the application form is completed, applicants should confirm their submission by e-mail to maths-phd@surrey.ac.uk.

For full consideration, applications should be received no later than Friday, 29th of November 2013. The reviewing process of the applications commences shortly after the deadline.

Informal Enquiries.

Informal enquiries may be addressed to the project supervisor Prof Rebecca Hoyle (R.Hoyle@surrey.ac.uk).

Bram Kuijper <a.kuijper@ucl.ac.uk>

USussex Bioinformatics

A Research Fellow post, grade 7, £33,230 p.a., is available immediately for 4 months at the School of Life Sciences, University of Sussex.

The post is intended to provide temporary maternity cover and is funded by The Wellcome Trust. The project focuses on the identification and bioinformatic analysis of functional small Open reading frames of less than 100 aminoacids, in *Drosophila* and other species. Our research group is a leader in this rapidly expanding area of research and we are looking for a candidate with previous experience in protein sequence analysis, and with flexibility to explore preliminary laboratory data and interact with people at the bench.

Relevant references from our group:

- Emile Gerard Magny, Jose Ignacio Pueyo, Frances Pearl, Miguel Angel Cespedes, Jeremy E. Niven, Sarah A. Bishop and Juan Pablo Couso. (2013) "Conserved regulation of calcium uptake in the heart by peptides encoded by small Open Reading Frames" *Science* 341, 1116-1120.

Emmanuel Ladoukakis, Vini Pereira, Emile Magny, Adam Eyre-Walker and J.P. Couso (2011) "Hundreds of putatively functional small open reading frames in *Drosophila*", *Genome Biology* 12:R118.

Informal enquiries: Juan Pablo Couso (j.p.couso@sussex.ac.uk)

a.c.eyre-walker@sussex.ac.uk

UWindsor Comparative Transcriptomics

Postdoctoral Fellowship position: Comparative transcriptomics and proteomics of successful and unsuccessful aquatic invasive species We are offering an exciting opportunity for a Post-doctoral Fellow (PDF) interested in applications of advanced molecular biology to the study of aquatic invasive species (AIS). The position is part of the Canadian Aquatic Invasive Species Network (CAISN), composed of 30 faculty nationwide from 12 partner universities and six federal laboratories; funding will cover a competitive salary for one year, renewable for a second year. Techniques to be used will include massively parallel (NextGen) sequencing of cDNA coupled with micro-fluidics, quantitative real-time PCR to quantify genome-level gene transcription in invasive populations. The goal is to identify genes that are correlated with the successful invasion and spread of AIS. The PDF will also explore the role and function of the identified genes using proteomic methods to quantify final protein concentrations in targeted species for quantitative comparisons between successful and unsuccessful AIS. This work will rely on recently acquired genomics and proteomics infrastructure and equipment in the Environmental Genomics Facility at the Great Lakes Institute for Environmental Research (GLIER), University of Windsor. Join us at the Great Lakes Institute for Environmental Research for an outstanding interdisciplinary PDF experience, where you will be mentored by our team of internationally renowned researchers and have unmatched hands-

on access to cutting edge genomics and proteomics facilities. Applications should include a curriculum vitae and names and contact information of three references. All inquiries should be directed to Dr. Hugh MacIsaac, CAISN Director, aquaticexplorer@gmail.com

Hugh MacIsaac Professor and Director, NSERC Canadian Aquatic Invasive Species Network II Great Lakes Institute for Environmental Research University of Windsor, Windsor, ON, Canada N9B 3P4 ph. (519) 253-3000 ext. 3754 (office), 2734 (lab) ph. (519) 817-9689 (cell), fax (519) 971-3616 <http://www.uwindsor.ca/hughm> <http://www.caisn.ca> Hugh MacIsaac <hughm@uwindsor.ca>

UnivGeorgia GenomeEvolution

Post-Doctoral Position Available in Computational Genomics - University of Georgia, Athens, USA

A 3-year postdoctoral position is available immediately to conduct bioinformatic analyses within the context of a collaborative NSF-funded project to sequence the genome of *Aegilops tauschii*, the D-genome donor to bread wheat. The successful candidate will participate in the annotation of the *Ae. tauschii* genome and develop new algorithms and approaches to investigate the structural and functional evolution of the *Ae. tauschii* genome. The position is based in the labs of Dr. Katrien M. Devos, Institute of Plant Breeding, Genetics and Genomics, and Dept. of Plant Biology, and Dr. Jeffrey L. Bennetzen, Dept. of Genetics at the University of Georgia, Athens. The post-doc will be part of and closely collaborate with a team of geneticists and bioinformaticians located across different institutions nationally and internationally.

Requirements: A PhD in bioinformatics, computer science, genetics or other relevant topic; a strong background in statistics; proficient in one or more scripting languages; experience with the analysis of large biological data sets.

Individuals interested in the position should send (1) a cover letter summarizing their research interests and expertise relevant to the project (2) a Curriculum Vitae, and (3) the names and contact information for at least three people who can provide recommendations. The application should be sent as a single pdf file to Katrien M. Devos (kdevos@uga.edu). Salary will be commensurate with appropriate experience and the position includes health and retirement benefits. Review

of applications will start on November 1st and will continue until a suitable applicant has been found.

The University of Georgia is an equal opportunity, affirmative action employer.

jkissing@uga.edu

UppsalaU EvolutionaryGenetics

Postdoctoral positions in evolutionary genetics- Uppsala University*

Two postdoctoral positions in evolutionary genetics are available at the Evolutionary Biology Center, Uppsala University as a part of a project funded by the European Research Council (ERC). Earliest starting date is the 1st February 2014 or as agreed upon.

*Job/project description: *Postmeiotic gene expression and the potential for selection during the gametic phase in animals are still poorly understood. The aim of this project is to make use of the rapidly evolving molecular tools to address this question from genetic/genomic angle. The project involves the determination of postmeiotic gene expression in the zebrafish *Danio rerio* by combining microscopy work with molecular work including next-generation sequencing and single-cell genotyping.

See the Immler lab web-page for more information and recent publications (<http://www.ebc.uu.se/-Research/IEG/evbiol/research/Immler/>) or contact Simone Immler directly (Simone.Immler@ebc.uu.se).

The Evolutionary Biology Centre (EBC) in Uppsala University is one of the largest conglomerations of evolutionary biologists in Europe, situated in a 'student town' - therefore, it provides a multitude of opportunities for collaboration as well as socializing.

Qualifications: A PhD degree in genetics/genomics or any related relevant field is required. The PhD degree must have been awarded within three years of the application deadline. The ideal candidates are highly motivated with thorough education and strong interest in genetics/genomics. Previous experience with microscopy and molecular tools such as work in the wet-lab, Next Generation Sequencing and bioinformatics are crucial. Candidates should be fluent in written and spoken English. The candidates should be able to work independently and help developing the project by generating new ideas and have good social and collaborative skills.

How to apply: The application should include an updated CV, copies of diplomas and grades, thesis and other documents that the applicant wishes to submit. Furthermore, a description of the candidate's previous research experience and how this matches with the described project should be submitted (no longer than 2 pages).

You are welcome to submit your application no later than December 31st 2013, UFV-PA 2013/3165. Use the link below to access the application form

<http://www.uu.se/en/jobs/jobs-detail-page/-?positionId=29020> We decline offers of recruitment and advertising help.

Dr Simone Immler Department of Evolutionary Biology
Evolutionary Biology Centre Uppsala University Nor-
byvägen 18d SE - 752 36 Uppsala Sweden

Email: simone.immler@ebc.uu.se Phone: +46 (0)18
471 6465 Fax: +46 (0)18 471 6310

Simone Immler <simone.immler@ebc.uu.se>

UppsalaU Flycatcher Evolution Genomics

Flycatcher evolution and genomics

Several postdoc positions at the Evolutionary Biology Centre, Uppsala University in the group of Prof Hans Ellegren

Each position is for two years with the possibility of extension for two more years

We run a long-term project using flycatchers as models for studying e.g. speciation genetics, population genomics and the genetic architecture of traits. We recently sequenced and assembled the flycatcher genome, and performed genome-wide re-sequencing of multiple individuals of the two closely related species, collared flycatcher and pied flycatcher (Nature 2012 491:756-760; PLoS Genetics 2013 9(11):e1003942). By this we identified a number of 'divergence islands', where we now seek to explain the underlying forces causing a heterogeneous landscape of genome divergence. The access to the flycatcher genome sequence also offers an excellent platform for many other types of evolutionary genetic analyses. Augmented with resources such as extensive re-sequencing data from population samples, transcriptome data from multiple tissues, genotype data from a SNP chip and linkage map data,

we are interested in questions such as the evolution of gene expression, demographic inference, population genomics including recombination rate variation, and GWAS approaches for studying genetic architectures. Using genome-wide flycatcher polymorphism data in combination with genome sequence data from many other bird species, i.e. contrasting diversity and divergence data, we also study molecular evolution. We now seek new post-docs to join this long-term project where successful candidates will have the possibility to choose among several possible directions of research, or add own perspectives and ideas, in dialogue with the host.

The venue for these positions, the Evolutionary Biology Centre, is situated in recently-built localities in central Uppsala. The working atmosphere is international with a regular recruitment of PhD students and post-docs from abroad. The Centre constitutes an exciting arena for multidisciplinary research in evolutionary biology in a broad sense, housing some 300 scientists and graduate students, and with research programs in, for example, ecology, genetics, genomics and developmental biology. The scientific environment with numerous seminars, journal clubs and social activities offer excellent possibilities for contacts and collaborations. A graduate school in 'The Genomics of Phenotypic Diversity in Natural Populations' (<http://www.ebc.uu.se/education/postgrad/gradschool/>) provides a framework for courses and other activities for PhD students. Local platforms for next-generation sequencing (<http://www.scilifelab.uu.se>) and high-performance computational analyses (<http://www.uppmax.uu.se>) ensure immediate access to state-of-the-art technology. Uppsala University is the oldest university in Scandinavia and the city of Uppsala is a vibrant student town with beautiful and easy accessible surroundings conveniently situated close to Stockholm.

The positions, which are funded by a European Research Council Advanced Investigator Grant, are affiliated with the Department of Evolutionary Biology - an overview of the research activities in the environment can be found at our web pages (<http://www.ebc.uu.se/Research/IEG/evbiol/?languageId=3D1>). Thanks to a number of competitive grants recently obtained (including four ERC grants), the environment has expanded significantly and houses 10 independent research groups and about 25 PhD students, 20 postdocs, and some bioinformaticians. A common theme is that we address key questions in evolutionary biology, like speciation, local adaptation, life history evolution, genome and molecular evolution, using genomic approaches. Study organisms include natural bird and plant populations, Neurospora, Drosophila, zebra fish, domestic animals

and humans. We have tight connections with several other research programs at the Evolutionary Biology Centre.

Suitable background to these positions is a PhD either geared toward molecular evolution, molecular ecology, population genetics or bioinformatics. Experience from bioinformatic analyses of next-generation sequencing data is of general merit. Depending on which parts of the project successful candidates will join, experience from e.g. speciation genetics, evolution of gene expression or GWAS/QTL mapping will be of merit.

Informal inquiries and applications should be sent by email to Hans.Ellegren@ebc.uu.se. Applicants must provide a CV, a statement of research interests and the name and contact details of at least two references. The positions remain open until filled. Starting date is flexible.

Professor Hans Ellegren Department of Evolutionary Biology

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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>

Vienna-Austria PopulationGenetics

A postdoc position is available to work on a unified quantitative theory that describes the efficiency of evolution in both natural systems and evolutionary algorithms. The position is part of SAGE (Speed of Adaptation in Population Genetics and Evolutionary Algorithms), a new European project in the Future and Emerging Technologies scheme. SAGE aims at bringing together Population Genetics and Evolutionary Computation to develop a unified quantitative theory that describes how quickly populations adapt to evolve high-fitness individuals in both natural and artificial evolution. The post involves close collaboration with the other SAGE partners at Nottingham, Jena, IST Austria and Sheffield. For further information about SAGE, please see <http://www.project-sage.eu>. The position will be based at IST Austria, in the Population Genetics group headed by Nick Barton, and will be available for three years, with a start date of January 1st, 2014; the salary scale starts at 47.250 p.a. Applicants should have a Ph.D. in a relevant area (including

population genetics, mathematics, statistical physics, and computer science), with strong mathematical and computing skills, and an interest in fundamental research. For further details, please contact Tiago Paixao (tiago.paixao@ist.ac.at). Applications should include a CV, a statement of research interests or a motivation letter, and names of referees.

The Institute of Science and Technology is a new multidisciplinary research institute, located just outside Vienna (www.ist-austria.ac.at). The Institute encourages multidisciplinary research, and has strong groups at the interface between biology and physics, and in computer science. There are close links with other evolution groups in Vienna (www.univie.ac.at/evolvienna).

paixao@ist.ac.at

WageningenU AdaptiveEvolution

We seek a postdoc for a collaborative project between the groups of Prof. Joachim Krug (Theoretical Physics, University of Cologne) and Dr. Arjan de Visser (Genetics, Wageningen University) on fitness landscapes and the predictability of adaptive evolution. The project combines theory and experiments and is part of the Collaborative Research Center 680 “Molecular basis of evolutionary innovations” funded by Deutsche Forschungsgemeinschaft (DFG) (<http://www.sfb680.uni-koeln.de>) and coordinated at the University of Cologne. In the previous funding period, we analyzed fitness landscapes of the fungus *Aspergillus niger* (e.g. Szendro et al. 2013 Proc. Natl. Acad. Sci. USA 110: 571-576) and the bacterial antibiotic-resistance enzyme TEM-1 beta-lactamase (e.g. Schenk et al. 2013 Mol. Biol. Evol. 30: 1779-1787). The new postdoc will study the fitness landscape of TEM-1 beta-lactamase and its evolutionary consequences in more detail. Specifically, we want to better understand the relationship between antibiotic resistance and bacterial fitness, the biochemical causes of TEM-1’s fitness landscape topography, the effect of recombination and population size on the rate and repeatability of adaptation, and the properties of the genome-wide fitness landscape of bacterial antibiotic resistance.

Profile: We seek a highly motivated person with a PhD in molecular evolutionary biology, microbial genetics or enzyme engineering. Experience with basic microbiological and molecular lab techniques are an absolute requirement; experience with evolutionary theory and

quantitative models are an advantage. The postdoc will be appointed at the University of Cologne, and experimental work will be carried out primarily at the Laboratory of Genetics at Wageningen University. The initial appointment is for one year with the possibility for extension up to four years. Salary will be paid according to level E13 of the German public service salary scale (TV-L). The project can start as soon as we have found a suitable candidate.

Applications: Submit enquiries and applications (including CV, letter of motivation and names and contact information of two references) before December 15 to Joachim Krug or Arjan de Visser. The University of Cologne is one of the leading German institutions in Molecular and Evolutionary Genetics. Wageningen University is a small but leading university in

the field of the life sciences. The University of Cologne is an equal opportunity employer in compliance with the German disability laws. Women and handicapped persons are therefore strongly encouraged to apply.

Dr. Arjan de Visser Laboratory of Genetics Wageningen University, Radix building Droevendaalsesteeg 1 6708 PB Wageningen The Netherlands P: (+)31 317 483144 M: arjan.devisser@wur.nl W: <http://www.wageningenur.nl/en/Expertise-Services/Chair-groups/Plant-Sciences/Laboratory-of-Genetics/-People/Arjan-de-Visser.htm> Prof. Joachim Krug Institute for Theoretical Physics Zülpicher Strasse 77 50937 Köln Germany P: (+)49 221 470 2818 M: krug@thp.uni-koeln.de W: www.thp.uni-koeln.de/~krug/ arjan.devisser@wur.nl

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Barcelona EvolutionOntogeny May26-28

Dear colleagues,

This course could be of interest for some of the list members:

- STUDYING ONTOGENY AT DIFFERENT LEVELS USING GEOMETRIC MORPHOMETRICS - Second edition; May 26-28, 2014. Instructor:

Dr. Kieran McNulty ((University of Minnesota, USA). Website: <http://www.transmittingscience.org/-courses/gm/ontogeny-and-gm/> This course will give emphasis on using Geometric Morphometrics to address questions related to growth, development, and evolution. Simple characterizations of multivariate ontogeny will give way to more complicated methods for visualizing and comparing different patterns of growth and development. From here, we will take up the idea of changes in ontogeny as a mechanism for producing evolutionary change. We will end by discussing the difficulties and misconceptions in interpreting morphometric analyses of ontogeny, and introduce some of the advanced topics in ontogeny that morphometricians are

beginning to address.

This course will be held in Els Hostalets de Pierola, Barcelona (Spain) and is co-organized by Transmitting Science, the Institut Català de Paleontologia Miquel Crusafont and de Centre de Restauració i Interpretació Paleontologica de Els Hostalets de Pierola. For more information you can write to courses@transmittingscience.org.

With best regards

Soledad De Esteban Trivigno Transmitting Science
www.transmittingscience.org

soledad.esteban@transmittingscience.org

Biosphere UArizona Ontology Feb21-23

The Fourth Annual Summit of the Phenotype Ontology Research Coordination Network will focus on 'Environment and Phenotype' and will be held at the University of Arizona's Biosphere2 about 40 miles north of Tucson, AZ, from February 21-23, 2014 (Friday through Sunday noon).

The overall goal of the RCN 's Fourth Annual Summit is to introduce scientists from different research backgrounds and establish communication among them. By popular demand, the theme for this meeting is representing environment in relation to phenotype using ontologies. Our goals and activities will focus on 1) the status of environment ontologies: How many, how to improve; Do we need a single environmental ontology? 2) Who is using these ontologies now? What are the use cases? 3) How to include environment in annotations of phenotypes? and 4) How to represent population-level phenotypes with ontologies?

We estimate that the costs for this meeting (transportation to meeting from airport, lodging, food) will be approximately \$500, though we will be able to cover expenses for a small number of participants, particularly students and postdocs who have specific interests in using phenotypic data associated with environment in their research. Please contact one of us if you are interested in attending - it should be a great meeting!

Paula Mabee; pmabee@usd.edu Eva Huala;
huala@acoma.stanford.edu Andy Deans;
adeans@psu.edu Suzanna Lewis; suzi@berkeleybop.org

Paula.Mabee@usd.edu

BodegaMarineLab AppliedPhylogenetics Mar8-15

UC Davis

WORKSHOP IN APPLIED PHYLOGENETICS

at Bodega Marine Laboratory, Bodega Bay, California
March 8-15, 2014

Sponsored by the

University of California, Davis and Bodega Marine Laboratory

<http://treethinkers.org> Introduction

Phylogenetic methods have revolutionized modern systematics and become indispensable tools in evolution, ecology and comparative biology, playing an increasingly important role in analyses of biological data at levels of organization ranging from molecules to ecological communities. The estimation of phylogenetic trees is now a formalized statistical problem with general agreement on the central issues and questions. A nearly standard set of topics is now taught as part of the curriculum at many colleges and universities. On the other hand, application of phylogenetic methods to novel problems outside systematics is an area of special excitement, innovation, and controversy, and perspectives vary widely.

This Spring, for the fifteenth consecutive year, we will teach a workshop for graduate students interested in applying phylogenetic methods to diverse topics in biology. The one-week course is an intensive exploration of problems to which modern phylogenetic approaches are being applied and the most current statistical tools and approaches that are used to solve those problems. We cover a range of topics in ecology, phylogenomics, functional morphology, macroevolution, speciation, and character evolution. The course starts with recent advances in phylogenetic methodology, and then focuses on methods and tools that can be brought to bear on these "applied" issues in the context of a given phylogeny.

The course will be held at the Bodega Marine Laboratory on the Northern California coast, which has on-site housing. Our newly increased bandwidth and access to computing clusters allows us to utilize computer-intensive approaches even in a one-week course. The

course format will involve equal parts of lecture, discussion, and hands-on software training. One afternoon during the week will be left free for field trips to local natural areas.

Topics Covered

- * Estimating, evaluating and interpreting phylogenetic trees
 - * Recent advances in Bayesian and Maximum-likelihood estimation of phylogeny
 - * Estimation of species trees, gene-tree/species-tree conflicts
 - * Divergence-time estimation from sequence data: relaxed clocks, fossil calibration
 - * Analysis of character evolution: maximum likelihood and Bayesian approaches, ancestral-state estimation, rates of trait evolution
 - * Analysis of morphological form, function of complex character systems
 - * Inference of diversification rates: detecting rate shifts, testing key innovation hypotheses
 - * Model specification issues: model selection, adequacy and uncertainty
 - * Diagnosing MCMC performance
- Instructors for the 2014 workshop
- * Jeremy Brown
 - * Jonathan Eisen
 - * Rich Glor
 - * Tracy Heath
 - * Mark Holder
 - * John Huelsenbeck
 - * Sarah Longo
 - * Luke Mahler
 - * Mike May
 - * Brian Moore
 - * Samantha Price
 - * Bruce Rannala
 - * Bob Thomson
 - * Peter Wainwright

Prerequisites

Available housing limits course enrollment to ~30 students. Preference is given to doctoral candidates who are in the early to middle stages of their thesis research, and who have completed sufficient prerequisites

(through previous coursework or research experience) to provide some familiarity with phylogenetic methods. Unfortunately, because of limits on class size, postdocs and faculty are discouraged from applying.

Admission and Fees

Students will be admitted based on academic qualifications and appropriateness of research interests. The course fee is \$700. This includes room and board at BML for duration of the course (arriving March 8, leaving March 15) and transportation from Davis to

Application Deadline

Applications are due by January 3, 2014. Please send a completed application form and one letter of recommendation from your major advisor. Applications should be sent via email as PDFs to mikeryanmay@gmail.com. Students will be notified via e-mail by January 10, 2014 of acceptance.

Application Forms and Information

Visit the Bodega website to for additional information and to submit an online application form.

Send all inquiries to:

Mike May

Department of Evolution and Ecology

5343 Storer Hall

University of California Davis

Davis, CA

95616

email: mikeryanmay@gmail.com

“Brian R. Moore” <brianmoore@ucdavis.edu>

Bodega California AppliedPhylogenetics Mar8-15

UC Davis

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- * Diagnosing MCMC performance

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Application Forms and Information

Visit the Bodega website to for additional information and to submit an online application form.

Send all inquiries to:

Mike May Department of Evolution and Ecology 5343 Storer Hall University of California Davis Davis, CA 95616 email: mikeryanmay@gmail.com

“Brian R. Moore” <brianmoore@ucdavis.edu>

Europe Msc Evolutionary Biol

Erasmus Mundus Joint Master in Evolutionary Biology (MEME)

MEME is a two-year research oriented master programme for talented and motivated European and non-European students who are interested in understanding evolution in all its facets. The MEME programme will address the driving forces of evolution at all levels of organismal organization (from cells and individuals to populations and ecosystems), and it will allow students to study all kinds of organisms (microorganisms, plants, animals) in all kinds of habitats (marine as well as terrestrial) with a diversity of approaches (field, lab, theory). The focus of the programme is not only on how evolution shaped life on our planet in the past, but also on how understanding the principles underlying evolution can provide new insights and help to cope with present-day challenges in a variety of fields, including ecology, epidemiology, physiology, immunology, genetics/genomics, bioinformatics, economics and the social sciences.

Only few universities in the world would be able to offer a programme of such broad scope without compromising scientific quality. For this reason, four European universities: - University of Groningen (Netherlands) - University of Montpellier II (France) - Ludwig Maximilians University of Munich (Germany) - Uppsala University (Sweden) have joined forces with Harvard University (USA). Together, this consortium is able to put together an attractive multidisciplinary programme that meets highest standards. All students have to study at at least two partner universities and they will receive a double degrees from two partner universities.

Being financed by the European Community, MEME has to satisfy the high quality standards imposed by the prestigious Erasmus Mundus Programme. Full scholarships

are available for: - EU Students (for 2 years) - Non-EU Students (for 2 years) - Scholars/ visiting scientists (for 2 weeks up to 3 months max)

Scholarships will be awarded in a selective procedure

Starting date: September 2014 Application deadline: 3 January 2014 For: European students / Non-European students / Scholars

For more information see: www.evobio.eu Questions about the contents of the programme: Prof dr Franjo Weissing (f.j.weissing@rug.nl)

Questions about the application procedure and requirements: Dr Irma Knevel (i.c.knevel@rug.nl)

Dr. Irma C. Knevel

Erasmus Mundus Master Programme Manager Email: I.C.Knevel@rug.nl

Please note my NEW visting and postal address!

Office hours 09.00-17.00: Mon, Tue, Thu, Fri

Monday: UMCG-ADL, Antonius Deusinglaan 1, 9713 AV Groningen Building 3215, Room1109 / Tel: 31 (0)50 363 2530

Tuesday, Thursday, Friday: NEW Educational Support Centre, Nijenborgh 9, 9747 AG Groningen Bernoulliborg, Building 5161, room 0085 / Tel: 31 (0)50 363 8098

NEW Postal address MEME/CEMACUBE: Irma Knevel Education Support Centre University of Groningen Nijenborgh 9 9747 AG Groningen The Netherlands CEMACUBE: www.biomedicaltechnology.eu MEME information: www.evobio.eu “I.C.Knevel” <i.c.knevel@rug.nl>

Gabon Tropical Conservation Jul14-Aug4 Deadline Dec6

The Central African Biodiversity Alliance (CAB-Alliance) is pleased to announce a three week undergraduate field course in tropical biology and conservation from July 14th to August 4th (2014) in Gabon. All classroom activities will be held at the Université des Sciences et Techniques de Masuku in Franceville, and field work will be conducted at the Wildlife Conservation Society’s training center in the Lopé National Park. A ten-week online seminar will also be provided to all successful applicants prior to their departure.

Course information and application forms can be found on the following website: <http://inst.uno.edu/Gabon>
Application deadline: Friday December 6th, 2013

More information on CAB-Alliance can be found at: www.caballiance.org Course objectives:

This course will provide an introduction to tropical field biology and field research methods. U.S. and Gabon participants will work collaboratively to design an independent research project, collect and analyze field data, and present their findings as a research paper and oral presentation to other team members.

Course content:

* Principles of tropical ecology and evolution * Natural history of study organisms * Sampling design and methods * Navigation skills in the forest * Statistical analysis of ecological and genetic data * An introduction to DNA barcoding * Ecological niche modeling and GIS analysis

Requirements:

Currently registered as an undergraduate at a U.S. institution Minimum GPA of 2.7 One semester of sophomore level ecology or evolutionary biology One semester of college-level French (can be taken in Spring 2014) Hold a valid passport and Gabon visa Obtain all necessary vaccinations Enjoy working in a multi-cultural setting Able to work under physically strenuous conditions All travel expenses (flight, lodging, meals) will be covered.

This course is optionally available for four credits (applicable course fees apply). All successful applicants will be required to pay a nominal registration fee.

For more information on this course please contact: nanthony@uno.edu

Nicola Mary Anthony <nanthony@uno.edu>

Lisbon Python101 Jan6-10

Dear Evoldir members,

After a very successful edition of the Python 101 course in the University of Lisbon, we would like to announce its second edition, from 6 to 10 January 2014.

Python 101 - 2nd edition

Once again, the course is aimed at researchers who do not have programming experience, but recognize the

importance of this skill and are highly motivated to learn a new way to approach their scientific questions.

The course will cover subjects ranging from basic variable handling to using external modules.

For more information and to register for the course, please head to <http://www.cobig2.com/python2014>
Thank you for your attention, and we hope to meet you in Lisbon next January.

Octavio Paulo <octavio.paulo@fc.ul.pt>

Lyon Paleontology Feb3-14

Hi,

I'm organising an international course that I'd like to announce in EvolDir. The course will be held in Lyon (France) from February 3 to February 14. The course, open to any student, is part of the ENS Lyon "Biosciences Master" and is entitled "Paleontology", it is thus of interest for evolutionary biology students (Master and PhD students). Could you please post the following announcement on EvolDir?

Thanks, Cyril Charles Assistant Professor Team 'Evo-Devo of Vertebrate Dentition' Institute of Functional Genomics of Lyon École Normale Supérieure de Lyon 46 allée d'Italie 69364 LYON Cedex 07 France

Office: +33 (0)4 26 73 13 40

European Course of Paleontology in Lyon

We are happy to open the registration for European Course on Paleontology in Lyon (France). The course is based on conferences spreading out from February 3 to February 14, 2014.

Various research domains such as aspects of early life evolution, Physiology of Dinosaurs, Evolution of Primates, or Evo-Devo will be discussed. Lecturers are selected on the basis on their work and competences concerning the retained topics. These topics will thus be presented by leaders of these areas. Every day, two lecturers of the same field will present their research and participate together to a round-table discussion with the students.

This year program is available at <http://biologie.ens-lyon.fr/masterbiosciences/presentation-des-ue/les-ue-europe/ue-paleontology>, here is some of the lecturers: Joy Richman (UBC, Vancouver), Charles Wellman (University of Sheffield), Chris Klingenberg (University

of Manchester), Philippe Janvier (National Natural History Museum, Paris), Dino Frey (SMN Karlsruhe), Jean-Sébastien Steyer (National Natural History Museum, Paris), Bruno David (University of Burgundy), Gareth Fraser (University of Sheffield), Jean Vannier (University of Lyon1), and Francis Albarede (ENS Lyon).

All Students are welcome to this course, which will be held in English (up to 30 participants). Registration is free.

To register, please send an email to Cyril Charles (Cyril.Charles@ens-lyon.fr) or Laurent Viriot (Laurent.Viriot@ens-lyon.fr) with your current status (Master or PhD student) and the name of your research Institute. Please also indicate if you want to take the exam at the end of the course.

Cyril Charles <cyril.charles@ens-lyon.fr>

MNHN Paris Integrative Taxonomy Mar24-28

Dear all,

The training course “Integrative taxonomy and taxonomic expertise in the framework of the DNA- barcoding initiative” will take place this year from 24 and 28 March 2014 in the Muséum National d’Histoire Naturelle, Paris.

This training course is part of the network DEST-Taxonomy training (<http://www.taxonomytraining.eu/content/modern-taxonomy-course-programme-2013-2014>).

The training course is in English. To register, please fill the form (<https://sites.google.com/site/coursbarcode/-inscription-1>) before January, 10th. Priority will be given to the PhD student, but Master students, researchers, technicians... are also encouraged to fill the form. Depending on the number of candidates, we’ll make a selection (the training course is limited to 40 participants).

If you have questions, do not hesitate to contact one of the organizer: Line Le Gall (legall@mnhn.fr) Nicolas Puillandre (puillandre@mnhn.fr) Sarah Samadi (sarah@mnhn.fr)

Sincerely, Nicolas Puillandre

nicolaspuillandre@gmail.com

Montreal Population Genetics May26-30

*Montreal Spring School of Population *

Genomics and Genetic Epidemiology is having its 7th annual workshop from May 26 to 30, 2014 in Montreal, Canada.

This workshop provides training in the rapidly developing disciplines of genetic epidemiology, human evolutionary genetics, population genomics and bioinformatics.

The training will be based on real-data examples from the instructors’ laboratories.

For more information on this year’s 5-day curriculum * and to register please visit * [*http://www.montrealspringschool.ca/*](http://www.montrealspringschool.ca/)

Gillian Greig Coordinator Montreal Spring School of Population Genomics and Genetic Epidemiology

eMail montrealspringschool@gmail.com Web www.montrealspringschool.ca Montreal Spring School <montrealspringschool@gmail.com>

Oeiras Portugal Bioinformatics Nov27-29

Course Announcement

Applications are open for:

CSDM13 “Chromosome structure determination using modeling and Hi-C data” with Davide Baù and François Serra (CNAG and CRG, Barcelona)

IMPORTANT DATES for this Course Deadline for applications: November 20th 2013 Notification of acceptance within 72 hours of application Course date: November 27th to November 29th 2013

More details at the course website <http://gtpb.igc.gulbenkian.pt/bicourses/CSDM13/> *Course description* The sequence of a genome alone does not carry enough information to fully understand how genomic processes are carried out in the cell nucleus;

to achieve this, the knowledge of the three-dimensional (3D) architecture of a genome is necessary. Advances in genomic technologies and the development of new analytical methods, such as 3C-based methods, have allowed getting insights at unprecedented resolution into how the genome is organized. Recently, it has been shown that chromatin is organized in Topologically Associating Domains (TADs), large interaction domains that appear to be conserved among different cell types. In this course, participants will learn to use TADBit, a software for the analysis and 3D modeling of Topologically Associated Domains (TADs) and genomes. TADBit is based on a computational module of the Integrative Modeling Platform (IMP, <http://www.integrativemodeling.org>) that uses chromosome conformation capture data to determine the 3D architecture of genomic domains and entire genomes at unprecedented resolutions. Participants can bring-in specific biological questions and/or their own data to work on during the course.

Target Audience The course is oriented to experimental researchers with minimal computational skills, at the graduate and post-graduate levels. It is also suitable for bioinformatics developers at all levels. We anticipate that this course is attended by people with several types of interests in genome organization. It is likely that they may also aim at getting involved in generating Hi-C data for chromosome structure determination and that they want to model its 3D representation, but that does not need to be the case for all the participants: they may, for example, just want to explore publicly available data.

Pedro Fernandes GTPB Organiser

PS. You may be interested in a recent review on the subject of this course,

“Exploring the three-dimensional organization of genomes: interpreting chromatin interaction data”
Job Dekker, Marc A. Marti-Renom & Leonid A. Mirny Nature Reviews Genetics, 14, 390-403 (2013)
doi:10.1038/nrg3454

http://sgt.cnag.cat/services/BBibTeX/pdfs/-20130509_DekkerMarti-RenomMirny_NRG2013.pdf

Pedro Fernandes Instituto Gulbenkian de Ciéncia Apartado 14 2781-901 OEIRAS PORTUGAL Tel +351 21 4407912 <http://gtpb.igc.gulbenkian.pt> Pedro Fernandes <pfern@igc.gulbenkian.pt>

Online LandscapeGenetics Jan15-May7

Online Landscape Genetics Graduate Student Course
When: Jan 15 - May 7, 2014, Wed 8:30 - 10:30 PST

Course Organizers: Rodney Dyer, Melanie Murphy, and Lisette Waits Co-Instructors: Niko Balkenhol, Sam Cushman, Olivier François, Caren Goldberg, Stephane Joost, Nusha Keyghobadi, Erin Landguth, Steve Spear, Helene Wagner 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. Landscape Genetics will be concurrently offered at five universities in North America and Europe (Univ. Idaho, Univ. Wyoming, Université Aix-Marseille, Virginia Commonwealth, Western University) 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.

See attached files for details and registration information.

Lisette Lisette Waits, PHD Professor Fish and Wildlife Sciences Laboratory for Ecological, Evolutionary and Conservation Genetics University of Idaho 875 Perimeter Drive MS 1136 Moscow ID 83844-1136 Phone: (208) 885 7823 lwaits@uidaho.edu <http://www.uidaho.edu/cnr/fishwild/lisettewaits> lwaits@uidaho.edu

Spain GenomicDataAnalysis Jan20-14 LastCall

Dear colleagues:

This is the last call for the workshop “Introduction to Genomic data analysis using HapMap and 1000 genomes projects - Second edition”; January 20-24, 2014.

End of early registration with reduced fee: November 30!

Instructors: Dr. Marc Via (University of Barcelona, Spain) and Robert Carreras-Torres (University of Barcelona, Spain).

Site: Premises of Sabadell of the Institut Català de Paleontologia Miquel Crusafont (Barcelona, Spain).

The course is entitled to teach the main concepts of genomic data analysis using real data from the two most important international projects: The HapMap and the 1000 Genomes Projects. In this course you will get familiar with the data arising from these two 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. Basic use of the R statistical package and command-line based environments will be introduced in the course and previous knowledge is not required.

More information: <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. Place are limited and will be covered by strict registration order.

Please feel free to distribute this information between your colleagues if you consider it appropriate.

With best regards

Soledad De Esteban-Trivigno, Ph.D.
courses@transmittingscience.org Transmitting Science < <http://www.transmittingscience.org/> >

Soledad De Esteban Trivigno
<soledad.esteban@transmittingscience.org>

Texel Netherlands
EvolutionMarineParasites Mar10-14

2

Dear colleagues,

This is a reminder that the registration deadline for the International Symposium 'Ecology & Evolution of Marine Parasites and Diseases' is coming closer.

If you would like to attend, please do not forget to register before 1 December 2013!

International Symposium 'Ecology & Evolution of Marine Parasites and Diseases' at the NIOZ Royal Netherlands Institute for Sea Research on Texel in the Netherlands from 10-14 March 2014

The budding fields of marine ecological and evolutionary parasitology lack a platform that fosters the exchange among the divergent questions and approaches taken to understand the role of parasitism and disease in marine ecosystems. This symposium intends to fill this void with the aim to:

- collect and synthesise our current knowledge on marine parasites and diseases.
- facilitate the exchange of ideas and collaborations among researchers from different fields.
- identify important future research avenues.

We are delighted to announce that the following invited speakers have confirmed to join the symposium: Robert Poulin (University of Otago, NZ), Mark Bertness (Brown University, USA), Kevin Lafferty (USGS & UC Santa Barbara, USA), Corina Brussard (NIOZ & University of Amsterdam, NL), Carolyn Friedman (University of Washington, USA), David Marcogliese (Environment Canada, CA).

Themes of the symposium:

- Biogeography and macroecology - Phylogeography and population genetics - Local adaptation and co-evolutionary dynamics - Direct and indirect effects of diseases on marine populations and communities - Parasites in marine food webs and effects on ecosystem functioning - Drivers of epidemics and emerging diseases - Diseases in marine reserves and in marine conservation efforts

For further information and registration got to: www.marineparasites2014.org . Kind regards Mathias Wegner & David Thielges

Mathias Wegner

AWI Waddenseastation Sylt Hafenstrasse 43 25992 List/Sylt +49 4651 9564-205 +49 4651 9564-200

Mathias.Wegner@awi.de <http://www.awi.de/People/show.php?mwegner>
Mathias Wegner
<Mathias.Wegner@awi.de>

Tromso Norway DNA
Metabarcoding Mar31-Apr5

Dear Colleagues,

DNA metabarcoding is a rapidly evolving method for assessing biodiversity from environmental DNA. It has a wide range of applications: biodiversity monitoring, animal diet assessment, reconstruction of paleo communities, among others. DNA metabarcoding relies on molecular techniques such as PCR and next generation sequencing, and requires bioinformatics and biostatistics competence to analyze sequencing results. This approach integrates several scientific areas and requires a broad range of skills, in addition to the classical ecological knowledge related to the considered research topic.

The DNA metabarcoding spring school is now in its third edition and this year it is co-organized by the metabarcoding.org team and the Research School in Biosystematics - ForBio in Tromsø, Norway. Also this year, the school is divided into two parts.

- The DNA metabarcoding spring school (31 March - 3 April 2014), that will be held during four days at the Skibotn Field Station, - A two-day workshop at the Tromsø University Museum that will follow the course (4 - 5 April 2014).

The DNA metabarcoding spring school is open to 25

participants. The two-day workshop is open without limit to all person wishing to present their results in DNA metabarcoding as a short talk of 15 min or as a poster.

All participants attending both the school and workshop can receive a ForBio course certificate stating the course description and number of ECTS earned (2 in this case). If you would like to receive University of Tromsø ECTS (2) instead of a ForBio course certificate, please feel out the BIO-8001 registration form and follow the submission instructions on it.

For more information go to : <http://metabarcoding.org/spip.php?article66> or on the registration website : <http://metabarcoding2014.weebly.com> Best regards,

Eric Coissac

Dr Eric Coissac Associate professor Laboratoire d'Ecologie Alpine UMR CNRS-UJF 5553 / UMR CNRS 5553 Université J. Fourier Domaine de Saint Martin d'Hères 2233, rue de la piscine Bât. D Biologie BP 53, 38041 Grenoble Cedex 9 France

eric.coissac@inria.fr

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 \LaTeX do not try to embed \LaTeX or \TeX in your message (or other formats) since my program will strip these from the message.