# E v o l D i r

August 1, 2014

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

## Foreword

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

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

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

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# Conferences



## Asilomar California InvasionGenetics Aug13-15

NEW OPPORTUNITY! We have confirmed that outstanding papers presented as contributed posters will be eligible for inclusion in the Special Issue of Molecular Ecology.

Invasion Genetics: The Baker and Stebbins Legacy A symposium at Asilomar, CA (USA) 13-15 Aug 2014

We are nearing the 50th anniversary of one of the most important books in evolutionary biology: The Genetics of Colonizing Species (1965) edited by Herbert Baker and G. Ledyard Stebbins. This classic volume was based on a symposium at Asilomar, California in 1964 and initiated the study of the genetics and evolution of invasive species. To revisit the historical legacy of the meeting and book, we are pleased to announce a symposium at Asilomar from August 13-15, 2014. The symposium will enjoy support from Wiley Blackwell Publishers, and associated original papers will appear in a Special Issue of Molecular Ecology in 2015. The symposium proceedings including the popular question-answer transcripts of the original) will also be published in 2015 as a book to mark the 50th anniversary of the original volume.

Please join us for this special event! DATES: August 13-15, 2014 LOCATION: Asilomar Conference Grounds (http://www.visitasilomar.com/)

REGISTRATION: Details at http://invasion-genetics.eventbrite.com Deadline: 10 August, 2014

POSTERS: Contributed posters by participants are welcomed! Manuscripts associated with poster presentations may be submitted to Molecular Ecology for review and will be given full consideration for inclusion in the Special Issue associated with the symposium. (Note: Target deadline for submission is 1 Sep 2014, to permit anniversary publication in 2015).

SPEAKERS/AUTHORS & SCHEDULE: We have confirmed a broad range of contributors to reflect both the legacy of work on the genetics of colonizing species, and new contributions and perspectives:

WEDS PM, Aug 13: Evening poster session

THURS AM, Aug 14: Spencer Barrett Lee Ann Rollins & Rick Shine Neil Tsutsui Pierre Gladieux & Tatiana Giraud Mark van Kleunen Jennifer Lau

THURS PM, Aug 14: Tim Blackburn Russ Lande Rob Colautti Mark Blows Troy Day John Pannell Mark Kirkpatrick Evening poster session

FRI AM, Aug 15: Melania Cristescu Katrina Dlugosch Stephan Peischl & Laurent Excoffier Johanna Schmitt

Kay Hodgins Loren Rieseberg

ORGANIZERS: Spencer Barrett Rob Colautti Katrina Dlugosch Loren Rieseberg

–

Katrina M. Dlugosch, PhD kdlugosch@email.arizona.edu

## Belgium EMPSEB20 Sep1-6 PlacesAvailable

EMPSEB 20- A FEW PLACES AVAILABLE!

Dear Colleagues,

Due to cancellations, we have about 10 places left for PhD students wanting to attend EMPSEB 20 (European Meeting of PhD Students in Evolutionary Biology) in Belgium (La Roche-en-Ardenne) from the 1ˆst - 6th of September, 2014.

All PhD students are required to give a presentation of 15 minutes. Plenary speakers have been confirmed and their talks will cover an array of diverse topics, e.g. (a)sexual evolution, phenotypic plasticity, non-genetic heredity and epigenetics, complex systems and the evolution of viruses, venoms and stress resistance, involving methods like genomics, proteomics, quantitative genetics and modelling.

For more details, please check the EMPSEB website:

http://empseb20.com/ Registration fee:

350 EUR ; price includes transportation from the airport (Brussels National Airport (Zaventem) or Brussels South Charleroi Airport) or the train station (≪ Bruxelles Midi/Brussels Zuid ≫ or ≪ Charleroi-Sud ≫) to La Roche-en-Ardenne, accommodation, and meals during the conference + an extra 50 EUR if you want to join the subsequent excursion in Brussels.

Please forward this message to potentially interested people.

If you are interested in participating, please send an e-mail ASAP to: secretary@empseb20.com

Containing the following information:

Family name :

First name :

University name :

Institute or department name :

University address :

Country :

VAT number :

Registration to the optional excursion in Brussels (yes-no) :

Age (on the 6ˆth of September, if attendance to the optional excursion in Brussels):

Gender:

Email:

Phone :

Year of PhD :

Research field:

1) animal behaviour

2) animal communication/signals

3) development & senescence

4) ecology & natural selection

5) emergence & complexity

6) epigenetics

7) group selection & cooperation

8) phenotypic plasticity

9) phylogeny reconstruction

10) sexual selection

11) speciation & hybridization

12) virology & immunology

13) other

Studied organism :

1) Bacteria, parasites & viruses

2) Other protists (besides parasites) & fungi

3) Plants

4) Insects

5) Other invertebrates (besides insects)

6) Fish

7) Reptiles & amphibians

8) Mammals

9) Birds

10) None (e.g. studies involving theoretical questions, origins of life, protein evolution, paleobiology...)

Oral presentation title:

Oral presentation abstract :

Supplementary poster (yes-no) :

Poster title :

Poster abstract :

T-shirt size :

Specific food requirements (vegetarian, allergies...) :

Any medical or other issue we should be made aware of ?

Activities I: Would you prefer to go kayaking or to the Han Caves ? (This can still be changed during the meeting according to the number of places available)

Activities II: Are you interested in a brewery visit or rather doing some sports? (see last comment)

Thanks in advance.

Best regards,

Gwennaël Bataille, EMPSEB20 President

Gwennaël BATAILLE, PhD student - Teaching assistant

Earth and Life Institute Université Catholique de Louvain SST/ELI/ELIB Bâtiment Carnoy, c.145 Croix du sud 4-5, bte L7.07.04 1348 Louvain-la-Neuve BELGIUM

Gwennaël Bataille <gwennael.bataille@uclouvain.be>

## Edinburgh PlantEvolution Sep8-9 Deadline4Aug

Please note the following DEADLINES:

Registration and abstract submission: 4 August, 2014

Accommodation: availability cannot be guaranteed after 28 July, 2014

The United Kingdom is home to exceptional evolutionarybiologists. However, compared to the number of evolutionaryzoologists, the number of their botanical counterparts is few. In many cases, U.K. plant evolutionary biologists are in small numbers at any one institution, and such isolation hinders progress.

The Royal Botanic Gardens, Edinburgh will host a conference on 8, 9 September, 2014 to help address this situation. The conference will showcase evolutionary research on plants by UK researchers to foster new collaborations. The conference will also hold a workshop, where discussion will identify challenges faced and suggest strategies to overcome them. We see this as a first step towards developing a longer-terms strategy for strengthening the UK community of plant evolutionary biologists.

The conference will include a poster and networking session, open speaking slots (both standard and "lightning" talks), as well as an exciting lineup of invited speakers.

For more information and to register, please visit the website at:

http://symposium.bio.ed.ac.uk/-ukplantevolution2014/ Invited speakers:

Mating system: Dr. Mario Vallejo-Marin Speciation: Dr. Richard Buggs Ecological Speciation: Dr. Patrik Nosil Evo-Devo: Dr. Beverley Glover Phylogeny: Dr. Toby Pennington Polyploidy: Dr. Barbara Mable Biogeography: Dr. Bill Baker Population Genetics (Molecular ecology): Dr. Simon Hiscock Population Genetics (Genomics): Dr. Rob Ness Population Genetics (Genomics): Dr. Deborah Charlesworth

International Speaker: Dr. Spencer Barrett (University of Toronto)

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

crispin.jordan@ed.ac.uk

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Polyploidy: Dr. Barbara Mable

Biogeography: Dr. Bill Baker

Population Genetics (Molecular ecology): Dr. Simon Hiscock

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Crispin Jordan <crispin.jordan@ed.ac.uk>

## Guaruja Brazil SSB Jun26-30

Call for 2015 SSB Symposia

The Society for Systematic Biologists invites proposals for symposia to be held at the 2015 SSB meeting in Guaruja, Brazil from June 26-30, 2015. The meeting will be held jointly with the American Society of Naturalists (ASN) and the Society for the Study of Evolution (SSE).

Proposals should include (1) a descriptive title, (2) one or two paragraphs explaining the purpose of the symposium and its relevance to systematics, (3) a list of presentations including proposed speakers, their institutions or affiliations, and their presentation titles, and (4) an indication of whether the speakers have been invited and whether they have agreed to participate.

Symposia are restricted to half-day sessions (typically 6 half hour talks). The society is particularly interested in symposia whose topics do not overlap with those from previous meetings, that introduce new ideas or synthesize important concepts, or those that are particularly good examples of the analysis of empirical data. Proposals that unite systematics with other fields are also desirable. We encourage participation from young investigators and others typically under-represented in symposia. Limited funding is available.

The deadline for full consideration is September 1, 2014. Proposals should be emailed (Word or PDF format) to the Program Chairperson, Stacey D. Smith, Stacey.D.Smith@Colorado.edu (Department of Ecology and Evolutionary Biology, University of Colorado, Boulder, CO, 80309-0334). Please use the subject heading: SSB Symposium Proposal.

The program chair will confirm receipt of submitted proposals; please inquire if you do not receive email confirmation. The proposals will be considered by the SSB Council, and the two selected symposia will receive funds to partially defer participant costs.

dewitt832@gmail.com

## HanyangU Korea CopepodEvolution Jul15

A special symposium on Copepod Evolution will be held at Hanyang University, Seoul Korea, at the Copepoda Conference organized by Professor Wonchoel Lee.

Special Symposium on Copepod Evolution

Tuesday, July 15, 9:00 am - 12:30 pm

HIT building, Hanyang University, Seoul, Korea

Invited Speakers (30 minute talks)

A. Evolutionary Adaptation to Environmental Change

Carol Eunmi Lee, University of Wisconsin, USA

Without Gills: Rapid evolution of osmoregulatory function in the copepod Eurytemora affinis during habitat invasions

Hans G. Dam, University of Connecticut, USA

Phenotypic plasticity and evolutionary thermal adaptation in the copepod genus Acartia

B. Evolution of Parasitic Copepods

Geoff Boxshall, The Natural History Museum

The evolution of host specificity in parasitic copepods

Frank Nilsen, University of Bergen, Norway

The salmon louse (Lepeophtheirus salmonis) genome: Some evolutionary implications based on the annotated gene-set.

C. Genomic Regulation

Grace Wyngaard, James Madison University, USA

Can the "yolk genome" hypothesis explain the elimination of billions of basepairs during chromatin diminution of Cyclops in nutrient poor lakes?

D. Zooplankton Metagenomics

Ryuji Machida, Academia Sinica, Taiwan

Community-based zooplankton genetic analyses: lessons from microbial studies

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

http://carollee.labs.wisc.edu Carol Eunmi Lee <carollee@wisc.edu>

## Lichtenfels SocialInsectEvolution Mar26-29

Second announcement

###IV Central European Meeting of IUSSI 2015 in Lichtenfels###

The next Central European Meeting of the International Union for the Study of Social Insects will be held on 26th to 29th March 2015 in Lichtenfels, Germany. We welcome presentations on any aspect of the evolution, ecology, and/or conservation of social insects.

***OUR WEBSITE*** https://www.bayceer.uni-bayreuth.de/iussi2015/ ***INVITED SPEAKERS*** - Audrey Dussutour, University of Toulouse, France - Christoph Grüter, University of Lausanne, Switzerland.

***IMPORTANT DATES*** Registration will open on 1st September 2014 The deadline for abstract submission of oral and poster presentations will be midnight (CET) of 31st December 2014.

***HIGH COST EFFECTIVENESS*** Registration fees include accommodation and catering Non-member 320 EUR Full member 290 EUR Student member 260 EUR

***VENUE*** We will discuss, eat and sleep at "Schloss Schney", once a castle now a conference centre run by the Frankenakademie (http://www.franken-akademie.de). Lichtenfels (http://www.lichtenfels-city.de) is a picturesque town in the upper valley of the river Main with a convenient connection to the high-speed ICE train system of the Deutsche Bahn.

We are looking forward to seeing you in Lichtenfels!

Organizing Committee

Heike Feldhaar, University of Bayreuth Simon Tragust, University of Bayreuth Oliver Otti, University of Bayreuth

If you have any questions concerning the meeting please do not hesitate to e-mail us: iussi2015@bayceer.uni-bayreuth.de

Dr. Oliver Otti Animal Ecology I University of Bayreuth Universitätsstrasse 30 95440 Bayreuth Germany

phone: +49921552646 e-mail: oliver.otti@uni-bayreuth.de

OLIVER OTTI <ootti@mac.com>

## Liverpool EnvironmentalOmics Sep15

iEOS2014 to be held in Liverpool, UK in week starting 15th September 2014

Deadline for registration and abstracts 28th July

http://environmentalomics.org/iEOS2014/ Conference Organiser: Professor F. Falciani (Chair in Integrative Systems Biology)

The aim of this conference is to bring together researchers and organisations from a range of disciplines with shared interests in the development of new approaches for data handling, generation and analysis in environmental omics. Science areas of interest include bioinformatics, DNA-barcoding, genomics, metagenomics, metabarcoding, transcriptomics, pro-

teomics, metabolomics, epigenetics, evolutionary and ecological omics, phylogenetics, study of ancient DNA and anthropology, new tools, resources and training, and beyond as applied to the study of the natural environmental and environmentally relevant organisms and systems. It is our hope is that the resulting interaction and exchange of ideas will lead to novel approaches, new collaborations and the establishment of a wider integrated 'Omic community.

EOS and this conference is supported by Natural Environmental Research Council (NERC) through its Mathematics and Informatics for Environmental 'Omics Data Synthesis program and the UK Science and Technology Facilities Council (STFC) Global Challenges programme.

– Prof Steve Paterson Institute of Integrative Biology University of Liverpool Liverpool, L69 7ZB, UK Tel +44 151 795 4521 Fax +44 151 795 4408 Mob +44 797 024 7668 s.paterson@liv.ac.uk http://www.liv.ac.uk/-genomic-research/ S.Paterson@liverpool.ac.uk

## Liverpool Environmental Omics Sep15-18

*SECOND INTERNATIONAL ENVIRONMENTAL 'OMICS SYNTHESIS CONFERENCE*

University of Liverpool, UK, 15th V 18th September 2014

http://www.environmentalomics.org/ieos2014 We are pleased to announce that registration is now open for the second International Environmental Omics Synthesis (iEOS) conference on 'omics applications, tools and resources focused on the environmental sciences.

The meeting covers genomics, metabolomics and other high-throughput approaches in biology ('omics). The meeting is targeted both at current and future users of 'omics, and for developers of bioinformatics and 'omics technologies.

The conference includes dedicated introductory talks and training sessions on day one, for those who are new to the field, followed by two days of world-class science presentations delivered by several international leaders in environmental 'omics. These are followed by a full day of advanced computational biology training and a workshop on Adverse Outcome Pathway Risk Assessment. The conference will promote exchange of ideas between all of these groups.

We encourage submission of abstracts to be considered for oral and poster presentation, and in particular encourage submissions from PhD students and postdoctoral researchers. Bursaries may be available.

To register - with optional submission of an abstract - see:

http://environmentalomics.org/ieos2014-registration/ REGISTRATION AND ABSTRACT DEADLINE: 14th July 2014

DRAFT PROGRAMME: http://-environmentalomics.org/ieos2014-agenda/ SPONSORED in part by the Natural Environment Research Council, UK (NERC); the Science and Technology Facilities Council, UK

This conference is coordinated by the NERC Environmental 'Omics Synthesis Centre: http://-environmentalomics.org We hope to see you in Liverpool in September.

Prof Francesco Falciani

Chair in Integrative Systems Biology, University of Liverpool

F.Falciani@liverpool.ac.uk

Erica Brockmeier <ericakarin13@gmail.com>

## Marseilles 18thEvolBiol Sep16-19 PreProgram

Dear all the the 18th ebm preprogram is now available

few spots are available for poster Pierre

18th Evolutionary Biology Meeting at Marseilles http://sites.univ-provence.fr/evol-cgr/ or http://-aeeb.fr/?page_id=337

Pierre PONTAROTTI <pierre.pontarotti@univ-amu.fr>

## McGillU Palaeontology Aug28-31

24th annual Canadian Palaeontology Conference 2014, August 28-31, Montréal

Joint annual meeting of the Canadian Society of Vertebrate Palaeontology and the Palaeontology Division of the Geological Association of Canada

Hosted at the Redpath Museum, McGill University, 859 Sherbrooke St. W., Montréal

LOCAL ORGANIZING COMMITTEE

Hans Larsson (chair) | McGill University [hans.ce.larsson@mcgill.ca] Chris Cameron | University of Montreal [c.cameron@umontreal.ca] Mario Cournoyer | Musée de Paléontologie et de l'Ãvolution [paleovision@videotron.ca]

Michel Chartier | Musée de Paléontologie et de l'Ãvolution [michel.chartier@videotron.ca]

SCHEDULE

Thursday, August 28: Icebreaker Friday, August 29: Registration, technical sessions, and pub night

Saturday, August 30: Technical sessions and banquet Sunday, August 31: Field trips

REGISTRATION Deadline to register is August 1. You must be registered to submit a presentation or poster abstract. To register, please i) send an e-mail with your abstract to Hans Larsson (hans.ce.larsson@mcgill.ca), ii) indicate whether you will present a talk or a poster, iii) indicate if you plan on attending the icebreaker, iv) state the number of banquet tickets ($60, see below) that you wish to purchase, and v) indicate your interest to participate in the half-day or full-day, Sunday field trip. Those wishing to attend the conference without presenting a poster or talk, please email indicating items iii) - v).

Conference Registration Fee (includes program with abstracts, refreshment breaks): Professional: $100

Public: $100

Student: free, if a member of either CSVP or the PD of GAC; $100 for non-member students Cost of banquet for registered and non-registered additional guests: $60

Registration should be completed with an email to Hans Larsson (hans.ce.larsson@mcgill.ca). Payments will only be accepted at the Redpath Museum on Friday 29 August via cash, cheque. An Interact system may be in place and would be accepted as well. Note: there will be no late registration fees, but we would greatly appreciate a notice before the conference if you are attending.

ICEBREAKER

The ice breaker will be held from 18:00 - 22:00 on Thursday, September 28 at the MPE - Musée de Paléontologie et de l'Ãvolution, 541, rue de la Ongrégation, Montreal Tel : 514-933-2422. Snacks and initial beverages will be provided. Additional beverages may have some charges (TBD).

BANQUET

The banquet cost is $60 for registered and non-registered guests. Banquet attendance is strongly encouraged. Please indicate the number of Banquet tickets you would like when you register. The banquet will be held on Saturday, August 30 at the McGill University Faculty Club. Cocktail hour starts at 18:00 and dinner served at 19:00.

FIELD TRIPS

Two field trips will be offered. A short morning field trip will be lead by up Mont Royal to examine the geology and palaeontology of the region located within Montreal. This field trip will have no costs and lunches can be purchased at the Mont Royal lookout. A full day field trip will be led by Mario Cournoyer and Michel Chartier of the MPE will explore a quarry in La Rivière des Hurons, St. Jean sur Richelieu and an the MPE exhibit in Valleyfield. A small fee, TBD, will be charged for vehicle rental and bag lunches. Details for both will be forthcoming.

ACCOMODATIONS

No housing is available in the university dormitories but many hotels and hostels are available in downtown Montreal, close to the Redpath Museum. Contact Chris Cameron (c.cameron@umontreal.ca) for a list of hotel suggestions is provided below, and instruction on travel to Montreal.

Abstract Instructions Deadline for registration and abstracts is August 1

Please email your complete abstracts directly to Hans Larsson (hans.ce.larsson@mcgill.ca). Indicate whether you will give a presentation or a poster. Titles must be no more than 120 characters with spaces and can be in either English or French. The full list of co-authors must be listed with the planned presenter as first author. in the format LAST NAME, First name Initials, Institutional address, email address; LAST NAME, First name Initials, Institutional address, email address; ... up to five authors total.

Both abstracts and short papers are accepted. Abstracts will be limited to no more than 500 words and can be in either English or French. Short Papers or Extended Abstracts will be limited to a maximum of four letter sized pages, single-spaced with 1" margins, in twelve point Times New Roman font. Titles, authors, affiliations should follow that of the abstract format, above. Figures may be submitted in grey scale

or colour, but the print version will only be grey scale. References may be included, but must be within the four-page limit. Use headings for different sections of paper, all in upper case (e.g., INTRODUCTION, RESULTS, CONCLUSIONS, REFERENCES). Abstracts and Short Papers should be

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

## Melbourne Bioinformatics Dec1-5

BioInfoSummer 2014: Summer Symposium in Bioinformatics 1-5 December 2014 Monash University (Caulfield), Melbourne

Bioinformatics is an exciting, fastâmoving area analysing and simulating the structures and processes of biological systems. BioInfoSummer introduces students, researchers and others working in related areas to the discipline.

The program features: Introduction to molecular biosciences and bioinformatics Next-generation DNA sequencing and sequence evolution High-throughput technology and omics data analysis Methods in bioinformatics Systems biology

Speakers include: Professor Mark Ragan (Institute for Molecular Bioscience) Professor Chris Overall (University of British Columbia) Professor Roger Daly (Monash University) Associate Professor Barbara Holland (University of Tasmania) Dr Alicia Oshlack, Murdoch Childrens Research Institute

Thank you

Simi

Simi Henderson Research and Higher Education Manager

2014 AMSI-SSAI Lecturer: Top statistician touring the country from August. www.amsi.org.au/speed Australian Mathematical Sciences Institute Building 161, C/- The University of Melbourne, Victoria 3010 Australia P: +61 (3) 8344 1772 | F: +61 (3) 8344 6324 | E: simi@amsi.org.au | W: www.amsi.org.au F: www.amsi.org.au/facebook

Simi Henderson <simi@amsi.org.au>

## NatlMuseum WashingtonDC FrontiersPhylogenetics Sep15

The Washington Area Phylogenetics Consortium is pleased to announce the 2014 Frontiers in Phylogenetics Symposium!

"Genome-Scale Phylogenetics: Analysing the Data'

Symposium Location: Warner Brothers Theatre, National Museum of American History, Washington, DC Time and Date: 9 AM to 5 PM, Monday September 15, 2014

REGISTRATION IS FREE BUT REQUIRED. Please visit the link below to register. https://docs.google.com/forms/d/10p7xgDeAFOaVUHhxmQ6-fwf7E9N5lDJYfYf_PokQwmk/viewform?usp=send_form WELCOME John Kress - Acting Undersecretary for Science, Smithsonian Institution

SPEAKERS Bastien Boussau, Laboratory of Biometry and Evolutionary Biology, University Claude Bernard, Lyon, France

Ingo Ebersberger, Department for Applied Bioinformatics, Goethe University, Frankfurt, Germany

Lacey Knowles, Department of Ecology and Evolutionary Biology and Museum of Zoology, University of Michigan, Ann Arbor, Michigan, USA

Kevin Kocot, School of Biological Sciences, University of Queensland, Brisbane, Australia

Luay Nakhleh, Department of Computer Science, Rice University, Houston, Texas, USA

David Swofford, Department of Biology, Duke University, and National Evolutionary Synthesis Center, Durham, North Carolina, USA

Derrick Zwickl, Department of Ecology and Evolutionary Biology, University of Arizona, Tucson, Arizona, USA

The Frontiers in Phylogenetics Symposium is sponsored by the National Museum of Natural History, Smithsonian Institution and the Washington Area Phylogenetics Consortium. http://entomology.umd.edu/mitterlab/thewashingtonareaphylogeneticsconsortium An updated announcement with talk titles and symposium schedule will follow soon.

Please contact coyleb@si.edu with any questions

"Coyle, Brian J." <CoyleB@si.edu>

## PhnomPenh BiodiversityHealth Nov17-19

Dear colleague,

We are organizing a symposium in Phnom Penh, Cambodia on *Biodiversity and Health* in November 2014 and we invite you to join us.

Below, some practical information about this event:

*What?*

A symposium entitled 'Biodiversity & Health' that joins scientific expertise and stakeholders in order to identify research priorities in several domains that link biodiversity and human health:

1. emerging diseases and biodiversity loss,
2. drug and insecticide resistance,
3. pharmacognosy and plant biodiversity,
4. contaminants in the food web,
5. ethics and laws for biodiversity and health
6. ecosystem services and health
7. the 'One Health' concept.

*Why?*

- To share knowledge and experiences acquired with partners, projects and authorities.

- To improve training capacities of students.

- To enhance further collaborative projects.

*Where?*

In Phnom Penh at the University of Health Sciences.

*When?*

Between the 17th and the 19th of November 2014 .

So, reserve those days! We are looking forward to meeting you in Cambodia.

*How?*

Participation is free but limited to about 100 participants and it is going to be on a first come first serve basis. Please mention in your message your name and contact details. If are a PhD or a Master student and if you are willing to do a short communication or a poster presentation, please give us a title, a short summary and a list of authors. Registration is going to open on July, 15 and close on September, 15. It can done by sending an email to

cboete@gmail.com, serge.morand@cirad.fr and biodivhealthPNH@gmail.com

You'll be informed of your registration by the end of September.

In the meantime feel free to contact us if you have any question and follow the twitter account @biodivhealth for updates.

Best regards,

On behalf of the organizing committee,

Christophe Boëte

Organizing committee:

Monidarin Chou (Lab. R. Mérieux, Phnom Penh, Cambodia),

Youlet By (Fondation Mérieux, Phnom Penh, Cambodia),

Tan Boon Hua (NUS, Singapore),

Aurélie Binot (CIRAD, Kasetsart University, Thailand)

Serge Morand (CNRS-CIRAD, CICM Laos)

Christophe Boëte (IRD/ Aix-Marseille Université, France)

cboete@gmail.com

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crispin.jordan@ed.ac.uk

## SanDiego PhysiologicalAdaptation Oct5-8 Deadline

The upcoming Intersociety Meeting in Comparative and Evolutionary Physiology, organized by the American Physiological Society and several sponsoring societies (Society for Experimental Biology, SICB, TCS) will be held in San Diego, CA, October 5-8, 2014.

The Meeting Website is available at: http://www.the-aps.org/mm/Conferences/APS-Conferences/2014-Conferences/Comparative Funds are available to support student and postdoc travel. Several Special Symposia will cover a variety of topics regarding physiological adaptation. Abstract submissions are due July 9, 2014.

In particular, Professor Guy Charmantier from Université Montpellier, France has organized a special symposium on Physiological Adaptation from Marine to Freshwater Environments. Invited speakers are listed below. Abstract submissions are encouraged to be included in this session:

Invasions of freshwater habitats by marine and brackish organisms have been successfully performed by only a few animal taxa over evolutionary time, and constitute one of the major transitions in the history of life. In addition, recent and rapid colonizations of freshwater areas have resulted from human activities, such as transportation. Invading low salinity environments confronts the animals with serious challenges for maintaining hydromineral balance, mainly in retaining and acquiring ions against adverse gradients, and excreting excess water. Freshwater environments can also be affected by contaminations, either natural or anthropogenic. As natural selection acts on all developmental stages, each must adapt to new conditions before invasion of a novel environment, such as freshwater, can become successful. This symposium addresses various physiological adaptations that have enabled colonizations of fresh water from marine environments over different time scales. Speakers will describe physiological adaptations at multiple hierarchical levels of biological organization, from molecules to organisms and populations, and will discuss several model species or taxa, mainly crustaceans and fish, at different stages of development, from embryos to adults. The talks will explore adaptive responses to challenges imposed by freshwater environments, including the presence of contaminants.

List of Invited Speakers:

Patricia Schulte, University of British Columbia, Canada

Jonathon Stillman, RTC, SFSU, UC-Berkeley, USA

Carol Eunmi Lee, University of Wisconsin, USA

Guy Charmantier, Université Montpellier, France

This session will also include other talks selected from submitted abstracts.

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

http://carollee.labs.wisc.edu carollee@wisc.edu

## SanDiegoZoo BiobankingBiodiversity Oct13-17

Conference: 2nd Annual International Frozen ZooÂ Cell Culture Seminar: Training Scientists for Biobanking and Biodiversity Research San Diego Zoo Institute for Conservation Research, Escondido, CA U.S.A October 13 - 17, 2014.

The 2nd Annual International Frozen ZooÂ Cell Culture Seminar will commence on October 13 and conclude on October 17 at the facilities of the San Diego Zoo Institute for Conservation Research, in Escondido, California.

San Diego Zoo's Frozen ZooÂ is a premier collection of living fibroblast cells from over 1,000 species of mammals, birds, reptiles and amphibians.

Over five days, the course will provide participants with a "hands-on" learning experience with experts specialized in establishing cell lines for the Frozen ZooÂ. The course will provide the opportunity to gain exposure to and experience with:

- Lab safety and aseptic technique review

- Taking biopsies and establishing cell cultures using enzyme digestion and solid tissue explant methods

- Optimizing fibroblast cell culture for mammalian, avian, reptilian and amphibian species

- Field method for viable freezing of skin biopsies in liquid nitrogen

- Freezing fibroblast cell cultures

- Metaphase chromosome harvesting, staining, banding and karyotyping

This course is designed to help scientists establish biomedical and biotechnical research programs to initiate sampling of the genetic diversity within their countries and starting their own collections similar to the Frozen ZooÂ.

The registration fee for the 2nd Annual International Frozen ZooÂ Cell Culture Seminar is $1,000.00. This includes meals, transportation from local lodging to the San Diego Zoo Institute for Conservation Research, lab supplies, instruction materials, course workbook and protocols. Full and partial scholarships are being offered and are sponsored by the American Genetic Association, Special Project Award.

Due to limited space availability, an application process is required for consideration. If you are interested in attending please send an email with 2014 FZCCS in the subject line to lwied@sandiegozoo.org. Upon receipt, an application will be forwarded along with additional information. All applications are due by 11:59 P.M. (PST) on Friday, July 25, 2014. Anything submitted after this date will not be considered.

"Oliver A. Ryder" <oryder@ucsd.edu>

## SanDiegoZoo BiobankingBiodiversity Oct13-17 2

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Due to limited space availability, an application process is required for consideration. If you are interested in attending please send an email with 2014 FZCCS in the subject line to lwied@sandiegozoo.org. Upon receipt, an application will be forwarded along with additional information. All applications are due on Friday, August 15, 2014. Anything submitted after this date will not be considered.

asako yamamoto <xxsakooxx@yahoo.com>

## SantaBarbara Biodiversity CodeFest Sep2-4

The National Center for Ecological Analysis and Synthesis (NCEAS) is co-sponsoring Open Science Codefest 2014, which aims to bring together researchers from ecology, biodiversity science, and other earth and environmental sciences with computer scientists, software engineers, and developers to collaborate on coding projects of mutual interest.

This conference may be of interest to the EvolDir network.

Cheers, Morgan Visalli

Are you a researcher with a coding project that needs some help? Are you developing software for the earth sciences and would like some feedback and collaboration from a diverse group of scientists? Open Science Codefest September 2-4, 2014 Santa Barbara, CA

Open Science Codefest will gather researchers from ecology, biodiversity science, and other earth and environmental sciences with computer scientists, software engineers, and developers to collaborate on coding projects of mutual interest. < http://nceas.github.io/-open-science-codefest/ > Design. Code. Discuss. Learn more on the Codefest website: http:/-/nceas.github.io/open-science-codefest/ Inspired by hack-a-thons and organized in the participant-driven, unconference style, the Open Science Codefest is for anyone with an interesting problem, solution, or idea that intersects environmental science and computer programming. This is the conference where you will actually get stuff done – whether that's coding up a new R module, developing an ontology, working on a data repository, creating data visualizations, dreaming up an interactive eco-game, discussing an idea, or any other concrete collaborative goal that interests a group of people. < http://nceas.github.io/open-science-codefest/ >

Open Science Codefest 2014 will be held in *Santa Barbara on September 2-4, 2014* at the Fess Parker Santa Barbara Hotel.

Registration is *free*. Register at http://-nceas.github.io/open-science-codefest . Suggest a session topic or review proposed sessions in the Open Science Codefest Github project < https://github.com/NCEAS/open-science-codefest/-issues?labels=&milestone=&page=1&state=open >. To suggest a session, create a "New Issue" and apply the "proposed session" label. Alternatively, email the Codefest team at codefest@nceas.ucsb.edu. Forward this invite and spread the word about Open Science Codefest 2014. People from a wide variety of disciplines, geographic regions, and skill levels are encouraged to attend! Follow us on Twitter #OSCodefest < https://twitter.com/search?f=realtime&q=-%23OSCodefest%2C%20OR%20%23oscodefest&src=-typd > Contact Open Science Codefest at codefest@nceas.ucsb.edu

Morgan Visalli <visalli@nceas.ucsb.edu>

## Stanford Evolutionary Demography Nov10-12

The 2nd Annual Meeting of the Evolutionary Demography Society will be held November 10-12 at Stanford University. Registration is now open and the last day to register and submit a 50-300 word abstract is approaching: August 1.

More information on the society is here: http://-www.evodemos.org Registration and abstract submission are here: http://app.certain.com/profile/form/-index.cfm?PKformID=3D0x1779275912d Please feel free to contact me with questions about the society.

Logistical questions about the conference should be directed to Gari Gene <gari@stanford.edu>.

We look forward to seeing you in November!

Daniel Levitis Assistant Professor Department of Biology and Max-Planck Odense Center on the Biodemography of Aging University of Southern Denmark Campusvej 55 Dk-5230 Odense M Phone: +45 2912 5777

Evolutionary Demography Society www.evodemos.org levitis@biology.sdu.dk

## Suzhou CSHAsia EvolutionaryGenomics Oct8-12

Evolutionary Genetics and Genomics

October 8-12, 2014 - Suzhou China at Cold Spring Harbor Asia

Invited Speakers include: Loren Reiseberg, Doris Bachtrog, Kirsten Bomblies, Rasmus Neilsen, Steve Eichten, Hong-Ya Gu, Xionglei He, Molly Prezeworski, Leonie Moyle, Libby King, Manyuan Long, Soojin Yi, John Wang

For more info: https://www.csh-asia.org/-2014meetings/Genome.html

Brandon Gaut <bgaut@uci.edu>

## UCDavis PlantEvolutionaryGenetics Sep5

Dear Colleagues

On 5 September 2014 a 1-day research symposium will take place on the UC Davis campus.

This symposium celebrates the career and research themes of Dr. Kevin Rice (retiring in 2014 from UC Davis) by highlighting innovative scientific approaches to answer fundamental questions and solve practical problems in conservation biology, restoration ecology, and invasion biology. Speakers represent diverse study systems to explore the evolutionary ecology of natural plant populations, and will present results that will inform future efforts to study adaptation and conserve native communities.

Please join us.

DATE: 5 September 2014 LOCATION: UC Davis

REGISTRATION: http://ucanr.edu/survey/-survey.cfm?surveynumber=3D13084 This symposium is free of charge.

SPEAKERS

Sally Aitken Spencer Barrett Nancy Emery Elizabeth Leger Richard Mack John McKay Kevin Rice Annie Schmitt Jason Sexton Sharon Strauss Sonia Sultan

MORE INFO: https://sites.google.com/site/-bigscience2014/home jkmckay@colostate.edu

## UToronto Mississauga PlantEvolution Aug6-8 3

Terrestrial Invasive Plant Species II: Pre-Conference Registration Deadline July 20

The Terrestrial Invasive Plant Species II meeting will be held at the University of Toronto Mississauga on 6-8 August 2014, with major support from the Invasive Species Centre (Ontario) and the University of Toronto. A draft schedule is now available on-line; please visit our website (https://secure.utm.utoronto.ca/tips2) for details.

The pre-conference registration deadline is July 20. Please see https://secure.utm.utoronto.ca/tips2 for online registration information.

Program and Invited Speakers:

A draft schedule is now available on the website (https://secure.utm.utoronto.ca/tips2/tentative-program), including many exciting presentations. Our keynote speakers are Spencer Barrett from the University of Toronto, and Kirsten Prior from the University of Florida. We also are organizing a special session devoted to biocontrol of invasive plants; confirmed speakers to date include Bernd Blossey (Cornell University), Rob Bourchier (Agriculture and AgriFood Canada), Richard Casagrande (University of Rhode Island), John Gaskin (USDA-ARS), Hariet Hinz (CABI Switzerland), Lindsey Milbrath (USDA-ARS) and Richard Shaw (CABI UK). We still have space for late-breaking posters and 2-minute talks.

Field Trips:

We are offering a pre-conference field trip on August

6, at a modest additional cost: the Carden Plain Alvar (https://secure.utm.utoronto.ca/tips2/optional-field-trips). If you would like to participate, please submit your payment with your conference registration; see our registration page for details. If you already have registered, or wish to add a field trip at a later date, please contact Antonia Maughn (antonia.maughn@utoronto.ca) for instructions. There also will be a lunchtime walk from the conference venue into the Credit River valley on August 8.

See you in August!

TIPS II Organizing Committee: Peter Kotanen, University of Toronto Mississauga (lead organizer) Sandy Smith, University of Toronto (St. George) Roberta Fulthorpe, University of Toronto Scarborough Ben Gilbert, University of Toronto (St. George) Marc Cadotte, University of Toronto Scarborough Pedro Antunes, Algoma University Colin Cassin, University of Toronto Mississauga (student member)

peter.kotanen@utoronto.ca

## Vienna SMBE 2015 Jul12-16

SMBE 2015 will be held in Vienna (July 12th-16): reserve the date to enjoy the unique combination of exciting science and a spectacular venue-a former royal residence in the heart of Vienna.

Stay tuned at: http://smbe2015.at Preview: September 2014 call for symposia December 2014 call for abstracts

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

phone: +43-1-25077-4300 fax: +43-1-25077-4390 http://www.vetmeduni.ac.at/en/population-genetics/ Vienna Graduate School of Population Genetics http://www.popgen-vienna.at SMBE 2015 in Vienna http://smbe2015.at < http://www.popgen-vienna.at/ >

schlotc@gmail.com

# GradStudentPositions

## BlackHillsStateU IntegrativeGenomics 2

BlackHillsStateU_Integrative_Genomics

The Masters in Science in Integrative Genomics program at Black Hills State University (Spearfish, South Dakota) currently has openings for the Fall 2014 semester. This program exposes students to modern techniques and instrumentation in the laboratory and field and prepares students for success in both academic and other biotechnology-related pursuits.

Graduate Research Assistantships (RAs) are awarded to students and provide a competitive stipend ($16,640/yr) plus funding for research. All RAs receive a reduced tuition rate (1/3 of in-state rate) and assist with instruction of undergraduate-level science labs.

Black Hills State University, located in the heart of the northern Black Hills - Spearfish, SD, offers 75 academic programs at the associate, bachelor, and master degree levels. BHSU, which has over 4,000 students, has earned a reputation for transforming lives through innovative, high-quality academic programs and a dynamic learning community. Our location provides a natural laboratory for Integrative Genomics. We are also close to the Deep Underground Science and Engineering Laboratory (DUSEL) at Homestake Mine, allowing for collaboration with other major universities (to study, for example, the meta-genomics of the unique microbial communities found in extreme environments).

Learn more about the community here: www.visitspearfish.com www.youtube.com/-watch?v=HTsFzC9vESI www.youtube.com/-watch?v=BrRRHz2TRDs Information about M.S. Integrative Genomics program requirements and application process can be found here: www.bhsu.edu/-Academics/GraduatePrograms/IntegrativeGenomics/-tabid/2164/Default.aspx For further information email: Raeann.Mettler@bhsu.edu

"Mettler, Raeann" <Raeann.Mettler@bhsu.edu>

## MaxO Denmark LifeHistoryDemography

PhD studentship Topic: Comparative life history and plant demography. Supervisors: Owen Jones and Johan Dahlgren

We are seeking a PhD candidate to work on plant population biology, life history, and the demography of aging. These are fundamental topics in theoretical evolutionary biology and ecology but also have broad applications in population management and conservation biology. The project will involve comparative analyses of population matrix models, field data collection and analysis within ongoing long-term individual-based demographic studies, and laboratory work to collect anatomical and herb-chronological data.

The successful candidate will have an interest in life history evolution and plant population biology, and an excellent academic record with an undergraduate and/or master's degree in biological sciences, ecology, or related field. An interest in quantitative methods, including statistical modelling or population matrix modelling is essential. Experience of biological fieldwork and lab work, and knowledge of plant anatomy, is desirable.

The position will ideally start on 1st September 2014. It will provide experience and training in cutting edge quantitative methods (including matrix and integral projection modelling and phylogenetic comparative methods), field and laboratory methods, and evolutionary demography.

This fully-funded position is based at the Max-Planck Odense Center on the Biodemography of Aging (MaxO) and Department of Biology at the University of Southern Denmark in the vibrant city of Odense in Denmark.

To apply, send a CV and cover letter in PDF format to both Owen Jones (jones@biology.sdu.dk) and Johan Dahlgren (dahlgren@biology.sdu.dk).

We encourage interested parties to contact us informally if they require more information.

Application deadline August 1st 2014.

jones@biology.sdu.dk

## MaxPlanckInst Leipzig PopulationGenomics

Position in population genomics

We have an opening for a PhD student or a post-

doc in the Department of Evolutionary Genetics at the Max Planck Institute for Evolutionary Anthropology in Leipzig. The researcher will work on a collaborative project focusing on the analysis of genome-wide diversity data to assess the patterns of local adaptation in populations of humans and other primates. The project will take advantage of several new genome-wide datasets from primate populations and species.

We are seeking a creative and highly motivated individual with prime interest in population genomics. Candidates should have a background in evolutionary genetics, population genetics, genomics, bioinformatics, computational biology, statistics, or related disciplines. The ideal candidate will have experience in at least one of the areas above, and a strong interest in the others. Previous work in population genetics/genomics (theoretical or analytical), experience with large-scale databases, and strong programming skills are a plus but not required.

The Department of Evolutionary Genetics in the Max Planck Institute for Evolutionary Anthropology is a lively, stimulating, and highly collaborative place at the front of primate evolutionary genomics. The Institute is very international and English speaking. It is located in Leipzig, a nice and affordable city of 500,000 habitants that is the capital and major cultural center of German Saxony (two hours away from Berlin and three from Prague).

To apply send, in PDF format, a cover letter, your CV, and the contact information of at least 2 potential referees to Aida Andrés at aida_andres@eva.mpg.de or to Sergi Castellano sergi_castellano@eva.mpg.de. Informal inquiries can be sent to the same addresses.

For further information visit the webpages of our groups:

http://www.eva.mpg.de/genetics/genetic-diversity-and-selection/overview.html http://-www.eva.mpg.de/genetics/selenium-and-genome-annotation/overview.html aida

Aida Andrés, PhD Group Leader, Max Planck Institute for Evolutionary Anthropology

Deutscher Platz 6 04103 Leipzig, Germany Phone: +49 341 3550 507 Fax: +49 341 3550 555 aida.andres@eva.mpg.de http://www.eva.mpg.de/-genetics/genetic-diversity-and-selection/overview.html Aida Andres <aida_andres@eva.mpg.de>

## PrincetonU HybridZones

Ph.D. Student position in Evolutionary (epi)genomics

Princeton University, NJ Department of Ecology & Evolutionary Biology http://www.princeton.edu/eeb/ vonHoldt Lab http://www.princeton.edu/ ˜ vonholdt/ I am seeking highly motivated graduate students to join my lab, which focuses on a variety of systems to explore ways in which selection can shape traits, either through genetic or epigenetic variation. My research includes extensive genetic analysis of hybrid zones and their contributing parental species, in addition to exploring how demography impacts epigenetic variation. I'm looking for Ph.D. students that are quantitatively and computationally skilled to explore similar questions using high throughput sequencing technologies and cutting edge analytical tools.

The EEB Department at Princeton is an exciting and growing community, consisting of extensive molecular and field resources with numerous collaborative projects with a variety of departments (e.g. engineering, environmental sciences, neuroscience).

I ask that applicants must plan to take the GRE exam this fall. All inquiries and applications are encouraged, though competitive Quantitative GRE scores are preferred.

If you are interested, please send me a CV, a statement of research interests, contact information for three references, and your GRE scores.

Dr. Bridgett vonHoldt Assistant Professor vonholdt@princeton.edu

"Bridgett M. vonHoldt" <vonholdt@Princeton.EDU>

## SouthAfrica EvolutionaryBiology

We are looking for PhD students from around the world who would like to participate in a three-month research program in South Africa. We welcome applications by students with a general interest in theoretical ecology and evolution, and are particularly interested in hosting research projects related to modeling adaptive ecolog-

ical networks, food-web dynamics, speciation, coevolution, and evolutionary community assembly.

Research projects will be carried out at the at the University of the Free State in Bloemfontein, South Africa from 1 November 2014 until 31 January 2015, and are meant to result in a published article and a corresponding chapter in an applicant's PhD thesis. Funding to cover travel to Bloemfontein and living expenses while there is available for successful applicants.

The Southern African Young Scientists Summer Program (SA-YSSP) is currently accepting applications from doctoral students from The International Institute for Applied Systems Analysis' (IIASA) twenty National Member Organization (NMO) countries, Southern African Development Community member states, and South Africa. Applications are due on 3 August 2014.

Researchers from IIASA and South Africa will work in teams to supervise one or more SA-YSSP participants. These supervisory teams have jointly defined 15 research themes that will serve as the basis for the participants' work. These themes fall into 4 interdisciplinary clusters: Risk, Policy & Governance, Energy & Climate Systems, Ecosystems & Water, and Population, Health & Aging. Several themes, including Theme 10 Stability and complexity of adaptive ecological networks, address salient issues in theoretical and mathematical ecology.

SA-YSSP information on the IIASA website: http://www.iiasa.ac.at/web/home/education/sayssp/About-the-Program.en.html SA-YSSP information on the UFS website: http://conferences.ufs.ac.za/default.aspx?DCode=720 Application form and procedures on the NRF website: http://www.nrf.ac.za/funding_overview.php?fid=207 DIECKMANN Ulf <dieckmann@iiasa.ac.at>

## TexasAMU GenomicDataAnalysis

Wanted: Master's Students

Location: Department of Life Sciences, Texas A&M University - Corpus Christi http://sci.tamucc.edu/member.php?who=all&program=lsci Project Subject: Developing Tools to Analyze and Simulate Population Genomic Data

Details: I'm looking for students that are quantitatively and computationally focused and interested in population genetics and evolution. Ongoing projects in our lab are focused on the effects of natural and anthropogenic selection on the evolution and adaptability of marine populations. Our study subjects are primarily marine invertebrates and fish, and we have a mountain of RADseq data from the Hawaiian Archipelago and the Gulf of Mexico.

Required Qualifications: Students must have a 3.0 GPA and must have taken the general GRE exam.

Support: Students would be supported by a TAship that currently pays $1200/mo. Out of state tuition can be waived, but in state tuition cannot and amounts to ~$3000 per semester.

The HoBi Lab https://www.facebook.com/HOBILAB Our laboratory has two co-PIs, myself (Chris Bird) and Derek Hogan and is located in the Harte Research Institute http://www.harteresearchinstitute.org/ . We advocate and facilitate a collaborative and collegial lab atmosphere, and by combining our labs, we increase the level of intellectual capital and expertise on-hand. The HoBi Lab presently has one PostDoc, four PhD students and three Masters students. We share a large genetic laboratory and manage the Core Genomics Lab at Texas A&M University- Corpus Christi. Our lab is equipped with several Linux workstations (2 x Xeon Processors, 128-256gb of ram, etc), we have a small High Performance Computing Cluster on campus (48 nodes), and we have access to several off campus super computers through the Texas A&M system.

If you are interested, please send me a CV, a copy of your undergraduate transcripts (unofficial is fine), and your GRE scores.

Dr. Chris Bird Assistant Professor chris.bird@tamucc.edu

"Bird, Chris" <Chris.Bird@tamucc.edu>

## TexasAMU MarinePopulationGenetics

Ph.D. Graduate Assistantship - Marine Molecular Population Genetics/Ecology

Location: A new, collaborative, state-of-the-art facility established for molecular-genetic studies of marine organisms, located at the Harte Research Institute at Texas A&M University - Corpus Christi, Corpus Christi, Texas 78412-5869.

Research Focus: Research will involve development and assay of nuclear-encoded, single nucleotide polymorphisms (SNPs), microsatellites, and/or mitochondrial DNA sequences for projects involving population genetics and molecular ecology of marine fishes, including sharks.

Qualifications: Master's degree in marine science or related field and/or B.S. in appropriate discipline required with documented work in the field of molecular population genetics and/or molecular ecology. Applicants should be ambitious, self-motivated, and able to work collaboratively with other lab members.

Salary: Salary range is $1,500 -$2, 000/month, with an increase to $2,200.00/month upon completion of comprehensive exams.

Closing date: Position is available Spring 2015.

Contact: Send curriculum vitae, description of research experience/interests, unofficial transcripts, GRE scores, and names, addresses, phone numbers, and e-mail address of three references to Dr. David S. Portnoy and Dr. John R. Gold at david.portnoy@tamucc.edu and goldfish@tamucc.edu respectively. International applicants will be considered if they hold the correct visa(s). Candidates must meet minimum requirement of the Marine Biology Ph.D. Program at Texas A&M University-Corpus Christi (http://-marinebiology.tamucc.edu).

Texas A&M University-Corpus Christi is an Equal Opportunity/Affirmative Action/Equal Access Employers.

"Gold, John" <John.Gold@tamucc.edu>

## UCanterbury EvolutionNetworks

PhD opportunities in the Stouffer Lab: The evolution of ecological networks

The Stouffer Lab at the University of Canterbury (New Zealand) is seeking applicants for two fully-funded PhD fellowships to work on topics related to the evolution of ecological networks.

Because of the project's interdisciplinary nature, we are open to applicants from ecology, engineering, applied mathematics, physics, computer science, and related areas. The ideal candidate will have some prior programming experience and/or experience with phylogenetic methods.

Interested applicants should see http://-stoufferlab.org/opportunities/phd/ for information on how to apply and for more information about our research group.

Review of applications will begin on 4 July and continue until the positions have been filled.

- Daniel

Dr. Daniel B. Stouffer School of Biological Sciences University of Canterbury Private Bag 4800 Christchurch 8140, New Zealand

+64.3.364.2729 (office) +64.3.364.2590 (fax) http://-stoufferlab.org @StoufferLab

"Daniel B. Stouffer" <daniel.stouffer@canterbury.ac.nz>

## UCoimbra Portugal InvasivePlantEvol

We are looking for candidates to apply for an FCT (Portuguese Foundation for Science and Technology) doctoral fellowship to join us at the Centre for Functional Ecology (cfe.uc.pt) of the Department of Life Sciences of the University of Coimbra (Portugal).

The successful candidate will be expected to develop his/her research within the framework of the European project ReproWeed, which will investigate evolution and adaptation of the invasive weed *Centaurea solstitialis* across broad biogeographical ranges. The research involves laboratory and field-based work and involves the interaction with an international network of collaborators from California, Chile, Argentina, Australia, Turkey and Spain.

The candidate should have a good scientific background, with an interest into reproductive and evolutionary ecology of invasive weeds. A good knowledge of the English language and of ecological statistics is highly desirable. Candidates should be Portuguese, European, or permanent residents, and comply with the conditions to be a candidate for the FCT Doctoral Grants (BD; see previous year conditions at:

http://www.fct.pt/apoios/bolsas/concursos/-individuais2013.phtml.pt).

The doctoral fellowship includes a monthly payment of 980 euros (tax-free), plus an accident insurance and a monthly contribution to the Portuguese Social Security system (full healthcare and retirement, but no unem-

ployment benefits). The scholarship is renewable for up to four years, at the end of which the candidate is expected to defend his or her PhD. dissertation thesis.

A call for fellowship applications will open during July and be open until the end of September 2014 (http://www.fct.pt/apoios/bolsas/index.phtml.pt), but *contacts should be made before July 18, at 6pm *Greenwich time. Interested candidates should send a one page cover letter describing their research interests and experience, a CV (explicitly including average scores for B.Sc. and/or M.Sc.), and the contact information for up to two referees to Daniel Montesinos (daniel.montesinos@uc.pt). Informal inquiries are welcome.

More information about the group and the project can be found here:

http://cfe.uc.pt/index.php?tabela=pessoaldetail&user=170 http://www.uc.pt/en/fctuc/ID/plantecolevol http://cfe.uc.pt/index.php?menu=0&language=eng&tabela=projectosdetail&projectid

Daniel Montesinos Centre for Functional Ecology DCV - FCTUC - Universidade de Coimbra Calçada Martim de Freitas 3000-456 Coimbra, Portugal T: (+351) 239 855 238 (ext. 139) http://about.me/daniel.montesinos
Daniel Montesinos <danimontesinos@gmail.com>

## UFerrara HumanPopGenetics

A three-year PhD studenship will be available, starting November 2014, at the University of Ferrara, Italy, in the human population genetics group led by Guido Barbujani. The call will be published at the end of July, and the selection process will take place in September.

The studentship, supported by funds of the European Research Council project LanGeLin, will be hosted within the Department of Life Sciences and Biotechnologies. The study subject will be the comparison of genomic and linguistic diversity in worldwide populations. The successful candidate for this fellowship should be able to work in a multidisciplinary context, should have a good background in population genetics and biostatistics, and experience with the bioinformatic analysis of genomes.

Potential candidates are encouraged to contact Guido Barbujani at this address: g.barbujani@unife.it.

– Silvia Ghirotto, PhD Post-doctoral Researcher Dipartimento di Scienze della Vita e Biotecnologie Università di Ferrara via Borsari 46 I-44121 Ferrara Phone: +39 0532 455951 Fax: +39 0532 249761

Silvia Ghirotto <ghrslv@unife.it>

## UGeorgia USA MicrobialSymbiosisGenomics

The Burke lab in the Entomology department at the University of Georgia is recruiting PhD students for the Spring semester of 2015.

Research in the lab focuses upon symbiotic relationships between microbes and animals, and uses functional and evolutionary genetics and genomics to examine how these kinds of relationships can occur and are maintained. In particular, we study the fascinating beneficial viruses that are harbored by parasitic wasps. Graduate students in the lab will generally work on the molecular genetics and genomics of microbial symbionts of animals and are encouraged to consider projects involving viral associations with parasitic wasps or other insects.

Graduate students accepted into the Entomology program are guaranteed financial support for their 5-year program through Teaching Assistantships (TAs) or Research Assistantships (RAs), which includes an out-of-state tuition waiver. Additional funding exists for graduate student research and travel to scientific meetings. 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. Please refer to the Burke lab website for detailed information about financial support and the University of Georgia graduate program in Entomology.

The University of Georgia is a Tier I research university located in Athens, Georgia. The University of Georgia Entomology department has strong representation of faculty studying host/parasite relationships and vector biology, creating a collaborative environment in which students can benefit from interaction with other faculty and students. The Burke lab has been recently renovated and is well-equipped for molecular biology and genomics research. Athens is a city of 100,000 located in the Piedmont basin south of the Appalachian mountains in a green and leafy environment. The city not only has a terrific music scene, great restaurants,

nearby mountains for hiking, art, cultural and sports events, etc., but it also has a very low cost of living index compared to many other places in the United States. Athens is conveniently located 90 minutes to the east of Atlanta, a major city with the largest airport in the US.

Interested candidates should contact Gaelen Burke at grburke@uga.edu with a description of your 1) academic background, 2) research experience, 3) your general and specific interests in research in the Burke lab at the University of Georgia and 4) contact information for three references. Please also attach your current resume or Curriculum Vitae. Students must have a greater than 3.0 GPA (on a 4.0 scale) and must have taken the general GRE exam.

Gaelen Burke Assistant Professor

Department of Entomology University of Georgia Phone (706) 542-1863 Website: https://burkelab.wordpress.com grburke@uga.edu

## UGlasgow Adaptation

PhD Studentship, University of Glasgow

Food security in the omics era: the role of polyploidy, hybridisation and mating system on the ability of crops to adapt to changing environments

An acknowledged threat to food security is the ability of crops and livestock to respond to increased environmental variability resulting from climate change. In plants, crops are often selected to be able to self-propagate but this comes at a cost to genetic variation, which could reduce potential for adaptation to changing environments. Hybridising different strains can increase genetic variation and combine desirable traits from different species but this is often accompanied by doubling of the genome (polyploidisation) to increase stability of the hybrid combination. Theoretically, this should increase flexibility to adapt to changing conditions. However, the relative effects of such breeding strategies on adaptability and the consequences for yield of economically important traits remain largely untested. Importantly, plants adapting to changing environments need to be able to continue to attract beneficial symbionts (pollinators and soil microbes that enable them to process nutrients) and to combat potentially new threats (pathogens and herbivores) but it is not known how the combination of mating system, ploidy and hybridisation affect such interactions. An exciting technological development is characterisation of microbial communities using deep sequencing approaches. The vast amounts of data generated and the difficulty of resolving species based on short sequences means that improved methods need to be developed for characterising microbial diversity and interpreting what this means for interacting organisms.

Using a common garden approach, combined with generation and analysis of deep sequencing data, and development of advanced statistical approaches to characterising biodiversity, the purpose of this multidisciplinary project is to use economically important Brassica napus (oilseed rape, which is used for both biofuel and edible oil production and is a polyploid hybrid that reproduces by self-fertilising) as a model to investigate: 1) the relative ability of plants with different traits to adapt to new environments; 2) the role of the microbial community in plant adaptation; 3) the consequences of the interaction between plant fitness and microbial community diversity for oil seed yield.

Project team:

Dr Barbara Mable (Principal investigator), Institute of Biodiversity, Animal Health & Comparative Medicine

Dr Christina Cobbold (Co-investigator), School of Mathematics and Statistics

Dr Bill Mullen (Co-investigator), Institute of Cardiovascular and Medical Sciences

Dr Chris Quince (Co-investigator), School of Engineering

Mr. Stephen Herrington (Project Partner), Curator, Glasgow Botanic Gardens

Application Process: Please contact the Principal investigator (Barbara.mable@glasgow.ac.uk) directly to enquire about applying for this scholarship. In the first instance, please send your CV and a written personal statement (no more than 300 words) of why you are interested in applying for this PhD position.

Eligibility: There are no citizenship or residency restrictions but applicants should have an equivalent of a UK 2:1 (B average) in a relevant undergraduate degree and/or have passed a Master's degree with at least a Merit (B average). This project requires strong quantitative skills but prior experience with advanced statistics or bioinformatics is not required.

Deadlines: We are still accepting applicants for this position and will do so until we have found a suitable candidate.

Barbara.Mable@glasgow.ac.uk

## UGoettingen EvolutionSocialityHealth

PhD position in behavioral ecology at the Georg-August University Göttingen, Germany

The Anthropology/Sociobiology department at the Georg-August University Göttingen in collaboration with the Behavioral Ecology Unit, German Primate Center, Germany (http://www.soziobio.uni-goettingen.de/) is offering a PhD position for 3 years in a DFG-funded project starting on 1 November 2014 (payment: 65% E13 TV-L).

We seek a highly motivated Ph.D. student who will work on the link between sociality and health in wild primates. The project focuses on the interplay between social relationships, physiological stress and health in redfronted lemurs (Eulemur rufifrons). Field work will be conducted at the field station of the German Primate Center in Kirindy Forest, Western Madagascar (http://www.dpz.eu/en/unit/-sociobiology-homepage/study-sites/madagascar.html). The methods to be employed include behavioral observations, endocrinological as well as immunological assays, and parasitological analyses.

Applicants must have a MSc degree (or equivalent) in a relevant field. Further job requirements include field experience (preferably in the tropics), the ability to work independently as well as basic French skills. Good quantitative, analytical, and English skills are also essential. Familiarity with observation techniques, ELISA, and parasitological analyses are highly desirable.

This project is part of a new research unit (FOR 2136-1) funded by the German Research Foundation (DFG) entitled "Sociality and Health in Primates". PIs from Göttingen, Berlin and Leipzig will combine their knowledge and skills to take up a novel collaborative research project on this topic. Successful candidates will be integrated into established PhD programs and will benefit from the family service of the University of Göttingen and the DPZ's certification ("Beruf und Familie") for issues relating to career planning, mentoring, coaching, child care and work life balance.

The University of Göttingen is an equal opportunities employer and places particular emphasis on fostering career opportunities for women. Qualified women are therefore strongly encouraged to apply. Disabled persons with equivalent aptitude will be favoured.

Candidates should submit their application by e-mail as a pdf containing a cover letter, CV and the contact information of two referees. Applications received until 22 August, 2014 will be fully considered, but the position remains open until a suitable candidate has been identified. Informal inquiries are welcome and should be made to Dr. Cornelia Kraus (ckraus1@gwdg.de until August 15) or to Dr. Claudia Fichtel (Claudia.Fichtel@gwdg.de until August 22).

Please send applications to: Dr. Cornelia Kraus Department of Sociobiology/Anthropology Johann-Friedrich-Blumenbach-Institute for Zoology and Anthropology Georg-August University of Göttingen Kellnerweg 6 D-37077 Göttingen Germany ckraus1@gwdg.de

"Kraus, Cornelia" <cornelia.kraus@biologie.uni-goettingen.de>

## UGottingen PrimateEvolution

Primate Social Evolution Dept., University of Göttingen, Germany

PhD - Primate Behavioral Endocrinology

Application deadline: 31.8.2014

The Department of Primate Social Evolution (http://-www.uni-goettingen.de/en/153624.html) at the Georg-August-Universität Göttingen is looking to fill a PhD position with 50% of the regular working hours (currently 19.9 hours per week) with a limited contract of 1 year with a possible extension for another 2 years. This position should be filled by approximately 01.02.2015. Salary: Pay grade 13 TV-L.

Your duties We are seeking a highly motivated PhD student to work on the links between social interactions, social relationships and stress physiology in wild Assamese macaques (Macaca assamensis). The project will combine behavioral observations with non-invasive hormone analysis and will be part of the Assamese macaque project at Phu Khieo Wildlife Sanctuary, Thailand (http://www.uni-goettingen.de/en/field-site/153680.html).

Your profile Applicants should have a Master's degree (or equivalent) in a relevant field and should be familiar with topics of behavioral ecology and behavioral en-

docrinology. Previous field experience is mandatory. The applicant will spend approximately 15 months in the field and thus should be physically fit, emotionally mature, able to integrate into an international team of diverse cultural backgrounds, be able to work independently and to spend long hours alone in a dense forest. Excellent English skills are essential as is the willingness to learn basic Thai.

The PhD student will be enrolled in a graduate program of the University of Göttingen, e.g. Behavior and Cognition (http://www.uni-goettingen.de/de/-217295.html).

The University of Göttingen is an equal opportunities employer and places particular emphasis on fostering career opportunities for women. Qualified women are therefore strongly encouraged to apply as they are underrepresented in this field. Disabled persons with equivalent aptitude will be favored.

Please send your application with the usual documents incl. names and addresses of 2 referees in electronic form by August 31st 2014 to Prof. Julia Ostner, CRC Evolution of Social Behavior, Primate Social Evolution, email: jostner@gwdg.de.

"Ostner, Julia" <Julia.Ostner@biologie.uni-goettingen.de>

## UKiel EvolutionAntibioticResistance

The Department of Evolutionary Ecology and Genetics at the Zoological Institute of the University of Kiel is seeking to fill a position within the research project "Evolution of antibiotic resistance" for a

PhD student (m/f)

Deadline for applications: 15 August 2014. Start of position: September 2014 or soon afterwards.

The position will be for three years, with possible extension. The regular weekly working hours amount to 65% of a full time position. The salary will be according to the German TV-L-13 pay scale.

Description

Although antibiotics have only been discovered about seventy years ago, they have saved thousands of lives and have become an almost trivial but indispensable cure for bacterial infections. However, the alarming spread of resistant bacteria is complicating even the most routine clinical interventions. Case in point are highly resistant Pseudomonas aeruginosa, which cause almost untreatable respiratory and wound infections in the hospital, and play a driving role in cystic fibrosis. The discovery of new antibiotics may offer temporary relief from resistance, but it is slow and costly, and does not address the heart of the matter: resistance is an evolutionary response to the use of antibiotics. Our research program is aimed at investigating ways in which existing antibiotics can be intelligently used to prevent or at least slow down the evolution of resistance. The project will involve in vitro experimental evolution using Pseudomonas aeruginosa and subsequent phenotypic, genomic and functional-genetic analyses of resistant strains.

The project is funded by the German Science Foundation (DFG) and will be based in the Department of Evolutionary Ecology and Genetics at the University of Kiel, Northern Germany, under the supervision of Dr. Gunther Jansen and Prof. Hinrich Schulenburg (www.uni-kiel.de/zoologie/evoecogen). The department provides an international and interactive atmosphere, while Kiel University and connected institutes (e.g., Max Planck Institute in Ploen) offer a stimulating research environment with a particular focus on evolutionary biology. The city of Kiel is a medium-sized pleasant town located at the coast of the Baltic Sea. It is the capital of the most Northern state of Germany, Schleswig-Holstein. It offers many opportunities for leisure activities, including theatres, an opera, the Schleswig-Holstein classical music festival, the world's largest metal festival in Wacken, sailing, surfing, cycling, and the famous festivities of the "Kieler Woche" — one of the major sailing events in Europe.

Requirements for the position:

Master in biology, genetics, microbiology, biochemistry or related topic; excellent background in evolution, genetics, statistics and microbiology; knowledge of basic molecular techniques; experience with complex experimental designs; high motivation; a collaborative spirit; fluency in English.

The University of Kiel strives to increase the proportion of women in research and education. It therefore encourages qualified women to apply. Women will be preferred in cases of comparable qualifications. It also explicitly welcomes applications from people with a migratory background. The University further makes an effort to employ disabled people and will prefer such candidates in case of equal qualification.

Please send applications with CV, one-page statement of research interests, and two references, as a pdf-file

by email to gjansen@zoologie.uni-kiel.de. For further details and questions, you are welcome to contact me by email

<gjansen@zoologie.uni-kiel.de>

Dr. Gunther Jansen Fellow at Wissenschaftskolleg zu Berlin Wallotstraße 19 14193 Berlin Germany Tel.: +49 30 89001 192 gunther.jansen@wiko-berlin.de

and

Department of Evolutionary Ecology and Genetics Zoological Institute Christian-Albrechts-Universitaet zu Kiel Am Botanischen Garten 1-9 24118 Kiel Germany Tel.: +49 431 880 4148 Fax: +49 431 880 2403 Email: gjansen@zoologie.uni-kiel.de URL: http://www.uni-kiel.de/zoologie/evoecogen/jansen/ http://www.uni-kiel.de/zoologie/evoecogen/evolreservoirs/ gjansen@zoologie.uni-kiel.de

## ULibreBruxelles Bioinformatics

PhD student position in Whole-genome sequencing and genotyping of non-model Eukaryotes for evolutionary biology±

* Project description

New generation sequencing technologies offer exciting new prospects for studying evolution, but also create great challenges related to the large amount of sequence data to be analysed in a single project. We seek a PhD candidate that will work on developing software pipelines for whole genome sequencing and analyse genomic variation for non model organisms, for several evolutionary biology projects. The projects involved concern (1) investigating adaptation of an herbivorous insect to its host plant at the genomic level, (2) inferring demographic history of various plant species from genomic variation, and (3) identification of candidate sex pheromones from transcriptome sequencing.

* Promotor information

The student will work at the Interuniversity Institute of Bioinformatics in Brussels (IB)2 (http://ibsquare.be), located on the campus of the Universit Libre de Bruxelles (ULB), and will enrol at both ULB, with promotor Patrick Mardulyn (http://ebe.ulb.ac.be/) and Vrije Universiteit Brussel (VUB), with promotor Tom Lenaerts (http://www.ulb.ac.be/di/map/tlenaert). Other co-promotors will supervise specific aspects of the research: Olivier Hardy (ULB, http://ebe.ulb.ac.be/), Ludwig Triest (VUB, http://www.vub.ac.be/APNA/staff/Triest/), Guillaume Smits (ULB, http://ibsquare.be), and Franky Bossuyt (VUB, http://www.amphibia.be).

* Student skills

The ideal candidate has a Masters Degree with a strong background in bioinformatics, with good programming and statistical skills, and a good understanding of the processes that govern biological evolution. Because the PhD candidate is expected to contribute to several projects, his ability to communicate and collaborate with others is essential. In general, the (IB)2 is a highly collaborative environment, and good interpersonal skills and an open attitude are expected. The candidate should also be fluent in English, the main language of the institute. Note that some language requirements (related to knowledge of english or dutch) have to be fulfilled for enrolment at the VUB (http://www.vub.ac.be/english/infofor/prospectivestudents/languagetest.html).

* Important note

We can only guarantee one year of funding; prospects exist for full 4 years funding, but this will depend on the success of project grant applications and/or on personal grant applications by the candidate. Full support will be provided by the promotors to succeed with these personal grant applications.

* Interested?

Please send a CV, letter of motivation, and contact information of two references to Patrick Mardulyn (pmarduly@ulb.ac.be). Further enquiries about the position can be directed to the same address. The candidate is expected to start 1st October 2014 and the position will be filled as soon as a suitable candidate is found.

Patrick Mardulyn Evolutionary Biology and ecology, CP 160/12 Free University of Brussels (ULB) av. FD Roosevelt 50 1050 Brussels Belgium

Phone: (32)(2)6502649 Fax: (32)(2)6502445 e-mail: pmarduly@ulb.ac.be

homepage: homepages.ulb.ac.be/~pmarduly/ lab website: http://ebe.ulb.ac.be/ebe/ebe-Welcome.html Patrick <pmarduly@ulb.ac.be>

## ULouvain EvolutionaryNovelty

Biodiversity Research Centre - Earth and Life Institute Universite catholique de Louvain (UCL)

1348, Louvain-la-Neuve, BELGIUM

Project Title

Molecular control of the development of a morphological evolutionary novelty involved in olfactory communication, androconia, of the model butterfly Bicyclus anynana.

Available position

A fulltime four-year Ph.D. position is available at the Biodiversity Research Centre, Earth and Life Institute, University of Louvain-la-Neuve (UCL) in Belgium.

Description of the project

The doctoral project will be undertaken at a leading Belgium University, in a laboratory interested in the evolution of olfactory communication and its role in speciation using the model butterfly Bicyclus anyana. Our group has identified the male sex pheromone involved in mate choice in B. anynana and has shown that this sex perfume is under sexual selection. Moreover, it was shown that wide diversification of the African Bicyclus genus is associated with selection and reproductive character displacement on the composition of the male sex pheromone between closely related sympatric Bicyclus species1-4. Importantly, androconia, formed of hair-like structures located on the wings, are the major morphological structure responsible for male sex pheromone production in the Bicyclus genus. Yet, despite the evolutionary recently acknowledged importance of androconia, these morphological structures are an evolutionary novelty specific to Lepidoptera and as such, the molecular mechanisms controlling their development remain unknown.

In this regard, this project aims at unraveling the molecular bases of androconia development in Bicyclus and identifies whether novel genes, or rather recycled developmental pathways, have been used to produce the Lepidoptera-specific androconial structures. A high throughput 454 transcriptome data of B. anynana developing wings is available in the lab for identifying an unbiased list of candidate genes. Moreover, B. anynana butterflies can be reared in large numbers in the laboratory, allowing large-scale experiments. The project will aim at first to identify a list of candidate genes in the transcriptome, and second, validate their patterns of temporal and spatial expression with phenotypic data of androconia development, using RT-qPCR and manipulative gene expression approaches5. The functional characterization of the candidate genes will be conducted in collaboration with the laboratory of Dr. P. Beldade (Gulbenkian Institute of Science, Lisbon, Portugal) 6-8. The research will lead to deciphering the molecular bases of androconia development in the first Lepidoptera studied till date.

A second step of this project will aim at investigating whether the same molecular developmental pathways have been conserved, or not, through the diversification of the Bicyclus genus. For this we will test the expression of our B. anynana list of candidate genes in the development of the androconia of closely related Bicyclus species, which numbers and positions are the main character allowing to discriminate among closely related species in the field9.

Requirements

We are looking for a strongly motivated candidate with a Masters degree in Molecular Biology or Evolutionary Ecology, or related fields. Experience in molecular biology and written and oral communication skills in English are desirable, as is the ability to work efficiently, independently as well as in collaboration. The grant will be delivered upon successful written application prepared in collaboration with the selected applicant and an oral interview in Brussels (October-November 2014), which can be done either in English or French. Adequate training will be provided for preparing for the interview. The selected applicant will be supervised throughout the process. The degrees obtained abroad (outside Belgium) or in the Flemish Community will require an equivalence (necessary to provide documentation of passed examinations for 300 credits including a research work of at least six months during master with a scientific report; more information: http://www.uclouvain.be/356107.html) for which the deadline is August 11th, 2014. The candidate will be expected to present his/her research results in national and international conferences.

Work environment

The PhD student will work in a highly active and integrated academic environment, in the research team of Prof. Caroline Nieberding and in close collaboration with Dr. Alok Arun, as well as other postdocs and PhD students, and will interact with members of other research teams of the Institute. Our University is an Equal Opportunity/Affirmative Action Employer, and is in a French-speaking region, but the language for meetings and scientific interactions is English. For background information about our university, see http://www.uclouvain.be/en-index.html . Salary

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To read the entire message look it up at http://life.biology.-mcmaster.ca/˜brian/evoldir.html

## UMichigan EvolutionaryEcolPhysiology

I am looking for Ph.D. students to join my newly formed research group in Fall 2015 in the Department of Psychology (Biopsychology Program Area) at the University of Michigan in Ann Arbor, Michigan. Official start dates for these positions would be August 2015 or August 2016 but preliminary field or lab work could start as early as Spring 2015.

My research group focuses on addressing questions at the interface of evolutionary ecology, behavior, and physiology in free-living mammalian species (see http:/-/www-personal.umich.edu/ ˜ dantzer/). I am broadly interested in understanding how wild animals are affected by changes in their ecological or social environment and the behavioral and physiological mechanisms by which they adjust themselves to these altered environments. We address these questions using long-term observational data as well as performing large-scale experiments in the field. We aim to couple this field research with detailed mechanistic work from hormones to genomes.

The exact objectives of the research projects are extremely flexible and will largely be determined by the student but I hope that they will overlap with the focus of my research group. I am particularly looking for students that are interested in blending field and laboratory research in free-living mammalian species and have previous experience carrying out field and/or lab research. Students that have an interest and experience in neuroscience or neurobiology are also encouraged to apply.

Ph.D. students that are admitted to the Department of Psychology at the University of Michigan are fully funded for five years. This support package includes tuition (Fall & Winter), salary (including 4 years of summer salary), and medical/dental insurance (all year round including the summer). Two and half of the years are fully-funded research assistant positions (no teaching) whereas the other two and half years are funded by half-time teaching assistant positions. External or University fellowships can also reduce teaching responsibilities. Funds for research expenses will also be available. In addition to this great financial support package, Ann Arbor is a great place to live and work!

Applications to the Department of Psychology (http:/-/goo.gl/Lxwdff) would be due by 1 December 2014 for the Fall 2015 start date. Admitted students would participate in the Biopsychology Program Area in the Department of Psychology (see graduate curriculum here: http://goo.gl/6Se3fc) but would also be able to take courses and participate informally in the Department of Ecology and Evolutionary Biology at the University of Michigan (http://www.lsa.umich.edu/eeb/).

If you are interested in applying for these Ph.D. positions, please send me an email (dantzer@umich.edu) that contains your CV, GRE test scores (if available), and a brief description outlining your research interests and also why you would be interested in joining my research group. I will then respond outlining what you can expect from me as a supervisor as well as discuss possible research projects.

-Ben Dantzer

Ben Dantzer, Ph.D. Assistant Professor Department of Psychology University of Michigan Ann Arbor, MI 48109 USA

Email: dantzer@umich.edu Phone: 734-647-4952 Twitter: @ben_dantzer

Web: http://www-personal.umich.edu/ ˜ dantzer/ www.redsquirrel.ca www.kalahari-meerkats.com Benjamin Dantzer <bendantzer@gmail.com>

## UMuenster 2 EvolutionaryBiol

UMuenster GraduateSchoolofEvolution BiologyMedicineorPhilosophy

2 PhD positions for international (non-German) students within the interdisciplinary “Muenster Graduate School of Evolution”: PhD projects in Biology, Medicine, or Philosophy

The “Muenster Graduate School of Evolution” (MGSE) offers 2 PhD positions funded by DAAD- stipends for international (non-German) students within the stimulating environment of the University of Muenster, Germany.

As an interdisciplinary graduate school, the MGSE uses the unifying concept of evolution to bridge the faculties of biology, medicine, geosciences, mathematics, and

philosophy. PhD students work on their diverse disciplinary projects in one of the involved institutes and benefit from interdisciplinary curricular activities as well as a structured supervision and support throughout their PhD. The MGSE is based in the stimulating city of Muenster in a historical building opposite the Muenster castle and offers a family friendly and international atmosphere.

Location: Muenster, Germany Working Language: English Start of the PhD: 2015 Duration: 3 years (4 years for students from developing and emerging countries)

You can apply for one or several of the following six projects. Each project involves high-quality research and state-of-the-art techniques and is supervised by excellent researchers.

1) The genetic origin of novel protein coding genes in populations and their evolutionary constraints Prof. Erich Bornberg-Bauer (Research Group Evolutionary Bioinformatics), Prof. Matthias Loewe (Institute of Mathematical Statistics), Prof. Juergen Gadau (School of Life Sciences, Arizona State University)

2) Immunogenic males: where sex and immunity meet Dr. Claudia Fricke (Research Group Evolution and Sexual Conflict), Dr. Sophie Armitage (Research Group Animal Evolutionary Ecology)

3) The Concept of Disease in Individualized Medicine Prof. Ulrich Krohs (Research Group Philosophy of Science and of Nature)

4) Interactions of animal personality, social environment and immunity Prof. Joachim Kurtz (Research Group Animal Evolutionary Ecology), Dr. Joern Scharsack (Research Group Animal Evolutionary Ecology), Prof. Norbert Sachser (Department of Behavioural Biology)

5) Functional consequences of evolutionary conservation vs. variability in the influenza virus genome Prof. Stephan Ludwig (Institute of Molecular Virology)

6) Reconstruction of the ancient transcriptome of species Dr. Juergen Schmitz (Institute of Experimental Pathology), Dr. Francesco Catania (Research Group Evolutionary Cell Biology)

More information on the projects can be found here: http://www.uni-muenster.de/Evolution/mgse/-jobs/ Highly qualified and motivated candidates all over the world are invited to submit their application.

Requirements:

- MSc (or an equivalent degree) relevant for the respective project (biology, medicine, mathematics, or philosophy). At the time of application, generally no more than six years should have passed since you gained the last degree. - Excellent academic record, interest to work interdisciplinary, and motivation to actively participate in the structured PhD program of the MGSE. - Fluency in spoken and written English (or willingness to take part in a respective course). - Only international (non-German) applicants can be accepted. At the time of application you should not be living in Germany for more than 15 months. - Applications from women are particularly encouraged. Handicapped candidates with equivalent qualifications will be given preference.

Application procedure:

You can apply for one or several of the listed projects via the DAAD platform by 1.8.2014: https://www.daad.de/deutschland/promotion/-phd/en/13306-phdgermany-database/?enter=-Suchen%20%C3%82%C2%BB&fachgebiet=-C&finanzierung=0&institution=&personenkreis=-&projektid=57139401&promotionsart=&sprache=-&stadt Please indicate which project(s) you are interested in! >From among the applicants, we will shortlist candidates for (Skype) interviews and subsequently nominate 4-8 applicants. From among the nominees, a DAAD committee will select the two scholarship recipients.

In case of questions please contact: (Please don't send your applications here, instead use the DAAD online application (see above)!)

Dr. Rebecca Schreiber (MGSE Coordinator) Email: rebeccaschreiber@uni-muenster.de Telephone: +49-(0)251 / 83-21252

Dr. Rebecca Schreiber (nee Heiming) Coordinator of the Muenster Graduate School of Evolution Westfaelische Wilhelms-Universitaet Muenster

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## UMuenster 2 EvolutionBiol

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Application procedure: You can apply for one or several of the listed projects via the DAAD platform by 1.8.2014:

https://www.daad.de/deutschland/promotion/-phd/en/13306-phdgermany-database/?enter=-Suchen%20%C3%82%C2%BB&fachgebiet=-C&finanzierung=0&institution=&personenkreis=-&projektid=57139401&promotionsart=&sprache=-&stadt Please indicate which project(s) you are interested in!

>From among the applicants, we will shortlist candidates for (Skype) interviews and subsequently nominate 4-8 applicants. From among the nominees, a DAAD committee will select the two scholarship recipients.

In case of questions please contact: (Please don't send your applications here, instead use the DAAD online application (see above)!)

Dr. Rebecca Schreiber (MGSE Coordinator) Email: rebeccaschreiber@uni-muenster.de Telephone: +49-(0)251 / 83-21252

rebeccaschreiber@uni-muenster.de

## UOslo EvolutionaryGenomics

Doctoral Research Fellowship in Evolutionary Genomics/Behavioural Ecology

A 4-year PhD position is available at the Natural His-

tory Museum (NHM), University of Oslo (UiO). The PhD project is part of a larger research program on 'Sperm-pathogen interactions and the evolution of ejaculate antimicrobial defences in passerine birds'.

Animals are constantly exposed to pathogens, and the ability of individuals to combat microbial attack is an important component of fitness. Sperm cells are not immune to microbial exposure, and bacteria can cause reductions in sperm quality and compromise male fertility. Moreover, ejaculate-borne pathogens can be transferred during mating (i.e. STDs), with negative consequences for female fertility. Thus, ejaculate-borne bacteria are predicted to generate intense selection for the evolution of antibacterial substances in seminal fluid. This project integrates organismal and molecular approaches to develop an understanding of the role of bacteria in the evolution of avian seminal fluid and factors that minimise bacterial-induced sperm defects and limit the transmission of STDs. The successful candidate will be allowed to focus on either the evolutionary genomics or the behavioural ecology aspects of the larger study (or some combination of these two) as best fits her/his skills and research interests. She/he will also be encouraged to develop additional, complementary avenues of research.

Interested candidates should have a good degree in a relevant subject, such as background in evolutionary biology or behavioural ecology. In addition, an interest in evolutionary genomics and previous fieldwork and bird handling experience would be advantageous. The position is affiliated with the Sex and Evolution Research Group (SERG) at the Natural History Museum (NHM) and the Centre for Ecological and Evolutionary Synthesis (CEES), and may also include a period of time based in the laboratory of Dr Steve Dorus (Syracuse University, USA). The research team will also include scientists from the USA and Germany. The working language will be English. Fieldwork may be conducted at a variety of locations, including Norway and Italy.

Informal enquiries can be made to Melissah Rowe:

melissah.rowe@nhm.uio.no

For more information and how to apply: http://uio.easycruit.com/vacancy/1198865/71922?iso=gb

Melissah Rowe Research Fellow Natural History Museum University of Oslo Norway

melissah.rowe@nhm.uio.no

melissah rowe <melissah.rowe@nhm.uio.no>

## UParis XI EnvironmentalDemogenetics

The Paris Saclay BASC LABEX offers a doctorate fellowship in environmental demogenetics

Place CNRS LEGS Gif-sur-Yvette, France

Laboratory DEEIT, activities in collaboration with other labs of BASC labex.

Director Stéphane DUPAS

Profile Master in evolutionary ecology, bioinformatics or biostatistics and training in statistical inference, preferably in a Bayesian framework and in random walks or Markov chains.

Deadline for application August 15th 2014

Description The development of new sequencing technologies brings markers for the analysis of spatial dynamics of species. This large data can allow to improve significantly models of species response to environmental changes. Current model used, based on niche theory are inferred from correlation between environmental variables and species occurrences. They do not account for migration and adaptive abilities of species, which can affect the responses. Genes are markers of migration and adaptations. Inferring models of biodiversity dynamics from genomic data constitutes therefore a new challenge for population biology and ecology.

There is however no tool or statistical theory that integrate in a single model of inference the stochastic (neutral model) and deterministic (niche model) processes determining these distributions to link spatial genetic data to environmental and connectivity variables related to geography, climate or socioecosystem. In the flagship project aiming to understand and improve adaptive abilities of socioecosystems, the labex Biodiversity, Agriculture, Society, Climate (BASC) of Paris- Saclay, wishes to train a doctorate in the area of integrative modeling from gene to socioecosystem. The stochastic model is an extension from on circuit theory model[1]. Inferred parameters concern both mechanisms of connectivity and response to environment.

The task will consist in taking charge in collaboration of the development of an inference tool of environmental demogenetic models and to exploit several data sets. The project has three stages.

I - Finalization of the development of an inference tool assuming a non changing environment. And valorization of the tool on several genetic - environmental data sets on BASC insect, plant and plant pathogens datasets.

II - The development of an inference tool that takes into account spatial heterogeneity.

III - The construction of scenario for species response to environmental changes and the evaluation of ecosystem services or disservices provided by some practices or country planning, bsed on the software SIMADAPT[2].

Contact Three years fellowship will start in September 2014. Send CV and cover letters before august 15th to dupas@legs.cnrs-gif.fr et tenaillon@moulon.inra.fr.

For more information on the specific researches to be held, please contact Stéphane Dupas, Phone : +33 1 69 82 37 25, dupas@legs.cnrs-gif.fr

References [1] Dupas S, Le Ru B, Branca a et al. (2014) Phylogeography in continuous space: coupling species distribution models and circuit theory to assess the effect of contiguous migration at different climatic periods on genetic differentiation in Busseola fusca (Lepidoptera: Noctuidae). Molecular ecology, 33, 1-13.

[2] Rebaudo F, Le Rouzic A, Dupas S et al. (2013) SimAdapt: an individual- based genetic model for simulating landscape management impacts on populations (M Spencer, Ed,). Methods in Ecology and Evolution, 4, 595-600.

Stephane DUPAS <stephane.dupas@legs.cnrs-gif.fr>

**UPompeuFabra Barcelona EvolutionaryGenomics**

PhD contract, Pompeu Fabra University (Barcelona, Spain), Evolutionary Genomics and Systems Biology.

The group of Evolutionary Biology in the Experimental Sciences and Health Department of the Pompeu Fabra University offers one PhD scholarship in the field of Evolutionary Genomics. Selected candidate will have the opportunity to develop novel research lines that will contribute to the understanding of the biology of genomes at evolutionary, molecular and biomedical level. The successful candidate would work on integrating different bioinformatic tools for the identification of network structures of genes and metabolic pathways under selective forces.

Our group offers an unusual and highly formative research frame, in which leading edge computational resources and experimental laboratory facilities are combined to achieve our research goals (www.prbb.org).

Required are a strong motivation to pursue a PhD in evolutionary biology, particular priority will be given to candidates with background on bioinformatics. Programming and general computational skills are highly desirable, but all candidates will be considered.

More information about our group and projects can be found here:

http://www.ibe.upf-csic.es/research/research-labs/bertranpetit.html If you are interested, please send your CV, a letter detailing your interests and the contact details of two referees to Jaume.bertranpetit@upf.edu or Hafid.laayouni@upf.edu

Hafid Laayouni

Institut de Biologia Evolutiva (UPF-CSIC)

Parc de Recerca Biomèdica de Barcelona (PRBB)

Carrer del Doctor Aigüader, 88. 08003 Barcelona Spain

Tel. (34) 93-316-0845.

“LAAYOUNI EL ALAOUI, HAFID” <hafid.laayouni@upf.edu>

## Jobs

## BowdoinCollege LabInstr Biodiversity

LABORATORY INSTRUCTOR BOWDOIN COLLEGE, COASTAL STUDIES CENTER

SUMMARY:

The Bowdoin College Marine Lab (http://-www.bowdoin.edu/marine-laboratory/) is looking for an enthusiastic, self-motivated individual to work with faculty during the Fall 2014 semester to help teach laboratory sections in two inquiry based courses: Dimensions of Biodiversity and Marine Molecular Ecology & Evolution. Descriptions of these courses can be found at: http://research.bowdoin.edu/-marine-laboratory/. This is a one-semester, full-time position.

The successful candidate will assist with field sampling, field and laboratory experiments, and a molecular ecology laboratory. There will be opportunities for developing new laboratories, leading classes, and reading/editing student work.

The Bowdoin Marine Laboratory is sited on 118 acres of upland forest providing excellent opportunities for intertidal, subtidal, and coastal research in the surrounding habitats. Ph.D. level graduate students with research interests that take advantage of the marine habitats of the CSC, and who compliment and extent faculty strengths at Bowdoin, are especially encouraged to apply.

EDUCATION/SKILLS REQUIREMENTS:

Bachelors degree in related field required; PhD candidates preferred.

Must have prior experience teaching, preferably in field sciences, and an ability to provide individual and group instruction with an awareness of sound pedagogy.

START

Position begins in mid-August and continues through December 20

CLOSING DATE:

07/15/2014

APPLY via Bowdoin's HR website:

https://careers.bowdoin.edu/postings/1360 Additional questions can be directed to Dave Carlon dcarlon@bowdoin.edu

David Carlon <dcarlon@bowdoin.edu>

## CollegeCharleston ArabidopsisManager

The unPAK project (undergraduates Phenotyping Arabidopsis Knockouts - www.arabidopsisunpak.org) seeks

a project manager to coordinate activities across 10 participating institutions. The unPAK project is collecting phenotypic information associated with Arabidopsis thaliana T-DNA insertion mutants and includes extensive involvement of undergraduate researchers. This project addresses broad questions in ecological genomics and is developing a phenotypic resource for the Arabidopsis and evolutionary genomic communities.

The project manager will be responsible for communication between institutions, seed stock production, seed distribution, data curation, and management of participating undergraduates. The position will be located at the College of Charleston, and will involve travel to other participating institutions.

We seek a candidate who is organized, energetic, and has strong communication skills. A successful candidate will have professional, diplomatic and leadership qualities. Ideally the candidate will bring experience working in a field or laboratory setting with plants. The position has ample opportunities for developing management skills and for publishing research. Interested individuals with undergraduate, master's or doctoral degrees are welcome to apply.

Specific responsibilities

- distribution of protocols to new partner schools

- travel to institutions to train participants in phenotyping and data management

- grow plants with student help to bulk seeds for distribution

- maintain seed-stock records

- coordinate seed stocks to be shipped.

- maintain of tissue and genotype records

- assist PI and CoPIs with maintaining CURE (course-based undergraduate research experience) plants

- format datasheets for downstream bioinformatics analyses

- upkeep experiment log

- maintain an already existing cyber-presence including the project website and the

- project google wiki site

- maintain contact information for all participants

- initial training of students in lab procedures

- contribute to newsletters, organize joint meetings (both virtual and in person)

- podcast and vodcast development

For more information about the position, please contact us at:

Matt Rutter (rutterm@cofc.edu) Courtney Murren (murrenc@cofc.edu) Allan Strand (stranda@cofc.edu) Department of Biology College of Charleston Charleston SC USA

MurrenC@cofc.edu

## EastCarolinaU ConservationBiol

East Carolina University

ASSISTANT PROFESSOR OF CONSERVATION BIOLOGY

Position Number: 934002

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 expertise in Conservation Biology, to begin August 17, 2015. We seek a broadly trained individual with a successful, innovative research program involving the development and application of ecological and evolutionary principles to address fundamental questions in conservation biology. In support of ECU's strategic emphasis in coastal research, we seek applicants whose research programs can be applied to aquatic or terrestrial ecosystems of coastal areas, including offshore, nearshore or adjacent onshore physiographic provinces.

The successful candidate will be expected to establish a vigorous, externally funded research program that involves work in a coastal area, teach undergraduate and graduate-level courses in conservation biology and related disciplines, mentor students in the M.S. and Ph.D. programs, be an active member of ECU's Center for Biodiversity and engage in university, community and professional service. Collaborative opportunities exist in Biology as well as other University departments and centers, including the Institute for Coastal Science and Policy and the Center for Sustainability. Departmental resources include computational facilities, a central environmental lab, next generation sequencing, university-owned natural areas and field vehicles and vessels. East Carolina University is in close proximity to the Croatan National Forest, the coast, and North Carolina's Research Triangle. Please visit our website at http://www.ecu.edu/cs-cas/biology/ for more infor-

mation 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 Biology or Biology-related fields with training in conservation biology and at least one year of postdoctoral research experience are required. Qualifying degrees must be received from appropriately accredited institutions.

Applicants must complete a candidate profile and submit a cover letter, curriculum vitae, a list of three references (including contact information), and statements of research interests and teaching experience/philosophy online at www.jobs.ecu.edu using the position number 934002 -Assistant Professor of Conservation Biology. We will ask short-listed candidates to have three reference letters sent to the Search Committee Chair via email within 7 days of short-list notification. Official transcript and original hard-copy reference letters are required upon employment.

Inquiries may be directed to Dr. David Chalcraft (chalcraftd@ecu.edu), Search Committee Chair. Review of applications will begin on September 2, 2014 and continue until the position is filled.

East Carolina University is an Equal Opportunity/Affirmative Action Employer.

Visit this job posting at ecu.peopleadmin.com/applicants/Central?quickFindu126

## ESF StateUNewYork MolBiolTech

Hi,

I'd like to request a job announcement be posted for a molecular bio tech with pop gen experience. It can be found here: http://esf.interviewexchange.com/-jobofferdetails.jsp?JOBID=51130 Let me know if I need to edit or clarify anything

Thanks, Chris Whipps

Posting is as follows:

Title: Senior Research Support Specialist (Molecular Biologist)

Department: Environmental Forest and Biology

Salary: $38,750 per year (Full time)

Duration: Two years, possible renewable

The Fish and Wildlife Disease lab at The Research Foundation of the State University of New York for the College of Environmental Science and Forestry (ESF) is seeking to fill a full-time appointment for a Senior Research Support Specialist (molecular biologist) to work on 2 projects: 1) Population genetics and genetic identification of wildlife species from non-invasive samples (80%), and 2) molecular biology and strain typing of Mycobacterium species from laboratory zebrafish (20%). The Senior Research Support specialist will work on molecular biology projects led by Dr. Christopher Whipps working with a team of faculty and graduate students (Whipps lab http://www.esf.edu/-efb/whipps/; Cohen lab http://jcohenlab.weebly.com/; Ryan lab http://sadieryan.weebly.com/). This position will require strong organization, communication, and math skills; also must be able to handle high volume testing accurately and effectively and work with biological tissues and infectious agents safely.

Brief Description of Duties: DNA extraction from tissues, cultures, and scats; running and modifying PCR assays for genotyping microsatellites from cottontail rabbits and other wildlife species; PCR-RFLP assays for species identification of rabbits and bacteria; preparation for DNA sequencing and sequence analysis; troubleshooting microsatellite genotyping data; ordering supplies; assisting graduate and undergraduate students with research; general laboratory management.

Required Qualifications: A Bachelor's degree in Genetics, Microbiology or related fields; experience in DNA extraction techniques and PCR.

Preferred Qualifications: A strong background in population genetics, laboratory management, and microbiology. Genetics techniques including optimizing and troubleshooting PCR, and genetic analysis. Experience with isolation of bacteria from animal tissues, bacterial culture media preparation, growth and preservation of cultures, bacteriological staining and biochemical techniques.

Application Deadline: Although applications will be accepted until the position is filled, candidates should submit their application by August 1, 2014 to assure optimal consideration.

Application Procedure: Employment application is required to be submitted on-line at http://www.esf.edu/-hr/ Attach cover letter, curriculum vitae, resume and contact information for three employment references.

SUNY-ESF provides an intimate small-college atmosphere with faculty and staff dedicated to solving environmental problems through research, teaching and service. The Department of Environmental and Forest

Biology (www.esf.edu/efb) has over 30 faculty focused on a variety of biological disciplines. The ESF campus is contiguous with that of Syracuse University and in close proximity to SUNY Upstate Medical University, giving students and faculty the added resources of a larger institution of higher education.

Located in central New York State, Syracuse is a lively city (http://www.syrgov.net/) within a day drive of major urban centers (New York, Boston, Washington DC, Philadelphia, Toronto, Ottawa, Montreal), as well as abundant natural beauty (Adirondacks, Thousand Islands, Niagara Falls).

In accordance with the "Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act" institutions of higher education are required to prepare an annual report containing information on campus security policies and campus statistics. This report includes statistics for the previous three years concerning reported crimes that occurred on-campus; in certain off-campus buildings or property owned or controlled by SUNY-ESF; and on property within, or immediately adjacent to and accessible from the campus. The report also includes institutional policies concerning campus security, such as policies concerning sexual assault, and other matters. You can obtain a printed copy of this report by contacting SUNY-ESF University Police at 315-470-6667 or by accessing the following web site: http://www.esf.edu/univpolice/crimereports/ As an Equal Opportunity / Affirmative Action employer, the Research

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## FieldMuseum Chicago InsectCollectionManager

Collection Manager, Insects - Field Museum of Natural History, Chicago, IL, USA

APPLICATIONS DUE: JULY 15, 2014

(you must use the online application system for the "Collection Manager, Insects" to apply: http://-www.fieldmuseum.org/about/employment)

The Collection Manager is involved in all aspects of care and maintenance of the Field Museum insect collection and collaborates with Curators in management of the collection. This position will also interact with the FMNH Action and Integrative Research Centers, as well as Education and Exhibits.

This position will have the opportunity to conduct research to a very limited extent.

Responsibilities - Preparation, identification, care and organization of specimens (and associated material) - Training and supervision of staff and volunteers in their collection related duties - Provide assistance to visitors in their use of collection, and processing recently collected material, as well as outgoing and incoming specimen loans, loan recalls and loan returns - Maintain records relevant to the collection (KE EMu catalog, loan invoices, accession files, field notes) - Provide the public and professional contacts with information they need from the collection (including digitizing specimens) - Develop grant proposals for collections improvements and liaise with Federal and State authorities and other Entomology collectors and researchers - Monitor and maintain collection supplies and equipment - Incorporate new material into collection including sorting and ID-ing, preparing specimens, cataloguing, labeling and installation

Qualifications - Masters in Biology (with an emphasis in Entomology) with at least 3 year's collection experience; PhD. (with an emphasis in Entomology) desirable - A well versed background in Entomology is required, including familiarity with other Entomology collections and researchers - Knowledge of taxonomic principles, and Entomology collection management - Strong organizational skills necessary to keep collection accessible - Familiarity with personal computers, and collection databases - Knowledge of international and domestic regulations for shipment of alcohol-preserved specimens - Supervisory skills necessary for directing collection personnel - Digitization skills highly desirable

Apply online for the "Collection Manager, Insects" position: http://www.fieldmuseum.org/about/-employment Corrie Saux Moreau, Ph.D. MacArthur Associate Curator - Insects Integrative Research Center Department of Science and Education Field Museum of Natural History 1400 South Lake Shore Drive Chicago, IL 60605 USA Office: (312) 665-7743 Fax: (312) 665-7754 Email: cmoreau@fieldmuseum.org Moreau Lab website: www.moreaulab.org FMNH website: http://fieldmuseum.org/users/corrie-moreau Field Museum Women in Science: http://fieldmuseum.org/-womeninscience cmoreau@fieldmuseum.org

## GettysburgC PhageEvolution

Gettysburg College Virology and Emerging Diseases

Assistant Professor of Biology V Tenure Track

Position Summary:

Gettysburg College invites applications for a tenure-track position at the rank of assistant professor in the Biology Department to begin Fall 2015. The successful candidate will teach our year-long research-intensive courses (Bio 113-114: Introduction to Phage Biology; Phage Bioinformatics) modeled on HHMIs SEA-PHAGES program, upper division courses in area of specialization (e.g., Virology, Emerging Diseases) and will share teaching duties in our core biology sequence.

Qualifications:

Ph.D. in the Biological Sciences, commitment to teaching in the liberal arts tradition, and research that involves undergraduates are essential; post-doctoral experience is preferred. Candidates with a strong computational and/or systems biology dimension to their research and teaching are especially encouraged to apply.

Application Details:

Applicants should apply online at: http://-gettysburg.peopleadmin.com/postings/1022. A curriculum vitae, cover letter, and a separate statement of the applicants teaching and research goals should be submitted electronically. In addition, applicants should enter the names and email addresses of three professional references. After the applicant completes his/her on-line application, the professional references indicated will be contacted by Gettysburg College via email to submit letters of recommendation electronically. At least one of the letters of recommendation must address the applicants teaching effectiveness.

Review of applications will begin on September 26, 2014, and will continue until a successful candidate is found. Letters of recommendation must be received by October 3, 2014.

Inquiries can be addressed to Dr. Kazuo Hiraizumi at hiraizum@gettysburg.edu.

Gettysburg College is a highly selective liberal arts college located within 90 minutes of the Baltimore/Washington metropolitan area. Established in 1832, the College has a rich history and is situated on a 220-acre campus with an enrollment of approximately 2,600 students. Gettysburg College celebrates diversity and welcomes applications from members of any group that has been historically underrepresented in the American academy. The College assures equal employment opportunity and prohibits discrimination on the basis of race, color, national origin, gender, religion, sexual orientation, gender identity, gender expression, age, and disability.

Ryan Kerney <rkerney@gettysburg.edu>

## ImperialCollege London GenomicMicrobiol

Research Assistant/Associate in Genomic Microbiology at Imperial College London

This position has become available within the MRC Centre for Outbreak Analysis and Modelling at Imperial College London. The MRC Centre has built upon a world-leading research group in the Department of Infectious Disease Epidemiology at Imperial College London to undertake applied collaborative work with national and international agencies in support of policy planning for emerging and endemic infectious diseases. The successful candidate will be a member of both the Centre and the Department, and will be based at the St Mary's Campus, Paddington.

The purpose of this post is to develop statistical and computational methods to perform genome-wide association mapping in bacteria. Important biomedical properties often vary within a bacterial species, for example antibiotic resistance, virulence, host-specificity or tissue-specificity. The genetic basis for these variations is not often fully understood by microbiologists, but this question can be approached computationally by comparing the genome sequences of bacteria with different properties. Working closely with Dr Xavier Didelot, the post-holder will develop the methodology required to perform such analysis and create a new software tool which will be applicable by microbial researchers around the world. To be valid, the new methods will need to account for the specificity of bacterial evolutionary process, especially in terms of recombination, genetic content and population structure. Thorough testing of the software will be performed using simulated datasets, as well as real existing collections

of several hundreds of genomes of two major enteric pathogens, Escherichia coli and Campylobacter jejuni.

The successful applicant must have an MSc (for appointment to Research Assistant) or a PhD (for appointment to Research Associate) or equivalent in one of the following areas: mathematics, statistics, computer science, infectious disease epidemiology or population biology. They will also have research experience of programming in at least one high level language and experience of working with genetic sequence data.

The post is full time for a fixed term from 1st September 2014 to 31st August 2016. For informal enquiries please contact Dr Xavier Didelot (x.didelot@imperial.ac.uk). For the full job description, person specification and application process, see http://bit.ly/VHiR5k
x.didelot@imperial.ac.uk

## Innsbruck Tech MolEvol

The Molecular Ecology Group at the Institute of Ecology at Innsbruck University is seeking a full-time laboratory technician as permanent employee.

Main tasks: - Conduction of experiments in the molecular lab (nucleic acid extraction, PCR, qRT-PCR, electrophoresis, cloning, preparation of libraries, etc.) - Basic data analyses - Ordering of supplies and maintainance of equipment (PCR machines, near-infrared- spectrometer, centrifuges, microscopes, incubators, etc.).

Further duties may include help with rearing of lab organisms (e.g. Drosophila), evolution experiments, collection of samples in the field and general support of the working group.

The ideal candidate will have an education as biological/chemical/medical laboratory technician or equivalent. Solid knowledge of basic molecular and microbiological techniques, experience in the use of MS Office, web-based data collections (e.g. NCBI) and basic imaging software, and good knowledge of English are essential. Openness for independent learning and the ability to work as part of a multi-disciplinary team are also important features. Knowledge of the German language may be helpful for everyday life in Innsbruck, but is not required. Please note that for legal reasons applications of candidates holding an MSc or higher degree in biology or related fields cannot be considered.

The position can be filled from August 2014. The minimum annual gross salary is EUR 26,096 including health insurance and 5 weeks of annual holidays. The salary will be higher if you have worked in a similar position before. Please apply until July 31 at: http://orawww.uibk.ac.at/public_prod/owa/-karriereportal.details?asg_id_in=8032 The Molecular Ecology Group uses the exciting opportunities offered by molecular biology to study ecology as a snap-shot of evolving biodiversity. Since the group's founding in 2009, research has been conducted in integrative biodiversity assessment, rapid evolution, symbiotic interactions, and social evolution, in all instances integrating genetic data with those from other sources (e.g., niche ecology, morphology, behaviour, chemistry). Most of our study organisms are terrestrial animals, often from the Alpine region. Detailed information about the Molecular Ecology Group can be found at http://www.uibk.ac.at/ecology/forschung/-molecular_ecology.html.en . Innsbruck is situated in the Alps and very close to Switzerland, Germany and Italy; scenery and outdoor recreation are fantastic.

More information needed? Please contact Wolfgang Arthofer <wolfgang.arthofer@uibk.ac.at>

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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

## MaxPlanckInst Rostock HeadEvolutionaryDemography

The Max Planck Institute for Demographic Research seeks a path-breaking recent Ph.D. eager to develop a highly innovative Max Planck Research Group at a frontier of mathematical, biological, historical, social, economic or qualitative demography.

The successful candidate will be given ample resources to establish and direct an independent research program. For this purpose, he or she will be guaranteed funding to recruit and lead a team of researchers, for

operating expenses, scientific collaborators, and technical and secretarial support.

The successful candidate will start a five-year contract (with the possibility of a prolongation after positive evaluation) between October and December 2014. The payment corresponds to the W2 level on the German university scale, equivalent to an Assistant or Associate Professor.

Applicants should have completed a doctoral degree in the past decade. They should have an outstanding record - or show exceptional promise - as demographic scholars.

The Max Planck Society is committed to employing more handicapped individuals and to increasing the share of women in areas where they are underrepresented, and therefore expressly encourages applications from such qualified individuals.

The applicant should submit a three to five page description of a research program, along with a work plan, a complete CV, and three personal references.

Please send applications by July 25, 2014 to applmprg@demogr.mpg.de

Thank you very much.

Best regards, Antje

Antje Gosselck

Max Planck Institute for Demographic Research Konrad-Zuse-Str. 1 D-18057 Rostock Germany

http://www.demogr.mpg.de
mailto:gosselck@demogr.mpg.de Tel. +49 (0) 381 / 2081 108 Fax +49 (0) 381 / 2081 408

“Gosselck, Antje” <Gosselck@demogr.mpg.de>

## MaxPlanckInst Seewiesen BlueTitFieldAssist

MaxPlanckInst_Seewiesen.BlueTitFieldAssistant

The Department of Behavioural Ecology and Evolutionary Genetics at the Max Planck Institute for Ornithology in Seewiesen, Bayern, Germany (see http://www.orn.mpg.de/2622/Department_Kempenaers), is seeking four field assistants to work from 1st October 2014 to 31st March 2015. These assistants will work as part of a long-term study on the reproductive biology of a blue tit /Cyanistes caeruleus/ population in a protected forest site in Southern Germany.

Work will include:

catching birds at feeders and nest-boxes using traps and/or mist nets measuring and banding birds maintenance of electronic nest-box and feeder hardware and equipment setting up experimental equipment data collection, entry, and management

Successful candidates must have experience in catching and handling birds, including extensive experience in mist netting. Applicants should also be highly motivated and well organised, with capabilities of working both in a group and independently. Field work hours can be long and tiring, thus applicants must be prepared to work in all types of weather conditions, at any time (including weekends and holidays), with typically only one day off per week.

The working language at the Institute is English, so good knowledge of the language is required. A full, clean driver’s licence is essential, with driving experience of at least one year. Experience in driving vehicles with manual transmission is also a necessity. Applicants from outside the EU must ensure they are eligible to remain in Europe for the duration of their contract.

Successful candidates should be vaccinated against Tick Borne Encephalitis (TBE or FSME) before commencing the field work. In addition, applicants should be aware that Lyme disease spread by ticks is common in the area, and should inform themselves about the disease in advance.

The payment would be in accordance with the collective agreement for public employees (TVöD).

The Max Planck Institute for Ornithology employs a dynamic, dedicated, and international group of researchers who are focused on exploring the fields of evolution, ecology, genetics, and neurobiology.

Review of applications will start immediately until the positions are filled. If you are interested in applying for one of the field assistant positions as described above, please apply (including your CV) by latest 31st August 2014 to:

Carol Gilsenan Department of Behavioural Ecology and Evolutionary Genetics Max-Planck-Institute for Ornithology Eberhard-Gwinner-Straße, House 7 82319 Seewiesen Germany

or via email to cgilsenan@orn.mpg.de

Carol Gilsenan <cgilsenan@orn.mpg.de>

## METU Turkey ComparativeEpigenomics

Assistant Professor in Epigenetics

The Department of Molecular Biology & Genetics at the Middle East Technical University (METU) in Ankara is inviting applications for an Assistant Professor position in the field of EPIGENETICS. We seek an individual with a PhD and postdoctoral training, acceptable publication record, and funding experience.

A background in comparative and population epigenomics will be a plus. The applicant would be encouraged to collaborate with groups working on population genomics, comparative transcriptomics and cancer evolution.

Deadline for applications is August 31st, 2014. Chosen applicants will be invited for a seminar by October 2014. The position is near its completion and will be ready upon the decision.

Applicants are expected to send a cover letter that includes a (i) CV, (ii) publication record, (iii) a summary of research experience, (iv) a research statement, (v) full contact information for three references. A teaching statement may also be included.

For inquiries, please contact: Prof. Orhan Adalý (bioorhan@metu.edu.tr)

Mehmet Somel <somel.mehmet@googlemail.com>

## OregonStateU EvolutionaryEcol

Assistant Professor Evolutionary Ecology of Plants or Fungi Oregon State University

The Department of Botany and Plant Pathology (http://bpp.oregonstate.edu/) seeks applicants for a 9-month, full-time (1.0 FTE), tenure-track faculty position in Evolutionary Ecology of Plants or Fungi. The successful candidate will be expected to establish an innovative and competitive research program that pursues scholarly work in the area of Evolutionary Ecology. The research specialization within evolutionary ecology is open and includes, but is not limited to: plants, fungi, or plant-fungal interactions (e.g., mycorrhizae, endophytes, pathogens, etc.). Emphasis is placed on research that integrates across multiple levels of inquiry and combines field, experimental, laboratory and/or computational approaches, and is relevant to natural resources and/or agriculture.

The candidate will also contribute to undergraduate and graduate education in introductory courses and/or in area of expertise; mentor and serve as research advisor to graduate students and postdoctoral researchers in their advanced degree programs in Botany and Plant Pathology, Molecular and Cell Biology, Environmental Science or related programs; and act as advisor and research mentor to undergraduate students.

Required qualifications include a PhD with research experience relevant to Evolutionary Ecology of Plants or Fungi, and a commitment to promoting and enhancing diversity. Postdoctoral experience is strongly preferred. Other preferred qualifications include potential for developing an interdisciplinary research program and effective teaching.

To review the position description and apply, go to posting #0012761 at http://oregonstate.edu/jobs. OSU is an AA/EOE. For full consideration, apply by 09/15/14 when review of applications will begin. Closing date is 10/15/14.

Joey Spatafora <Joseph.Spatafora@oregonstate.edu>

## PaloAlto ScienceCommunications

The Gordon and Betty Moore Foundation is hiring a Communications Officer. This person will spend the majority of their time devoted to supporting the foundation's Science Program, with a smaller portion of time supporting foundation-wide communications activities. The foundation's Science Program seeks to make a significant impact on the development of provocative, transformative scientific research, and increase knowledge in emerging fields by investing in the work of researchers and organizations at the frontiers of science.

http://www.moore.org/about/careers Samantha Forde, Ph.D. Program Officer, Marine Microbiology Initiative, Science Program

GORDON AND BETTY MOORE FOUNDATION 1661 Page Mill Road Palo Alto, CA 94304

www.moore.org O 650.213.3123 F 650.213.3003 samantha.forde@moore.org

Samantha Forde <Samantha.Forde@moore.org>

## PekingU 4 EvolutionaryBiol

*Multiple Faculty Positions in Evolutionary Biology**, Ecology, Population Genetics, and Computational Biology** at Peking University*

The School of Life Sciences at Peking University announces the opening of multiple faculty positions in evolutionary biology, ecology, population genetics, and computational biology at all academic levels. Hiring level, from tenure-track Assistant Professor to Full Professor will be commensurate with experience and achievements. While candidates in any related disciplines are welcome, applicants from the following research fields are especially encouraged to apply:

*1**) Evolutionary Biology*. Research areas include but are not limited to molecular evolution, EvoDevo, speciation, evolutionary theory and phylogenetics.

*2**)* *Ecological Genomics*. We seek applicants that employ genomic tools to answer important questions in ecology, such as mechanisms of adaptation to changing environments.

*3**) Population Genetics/Genomics*. The candidates are expected to employ theory, modeling, computation, experiments or genomics to address important questions related to genetic diversity, population demography, reproductive isolation, adaptive evolution, sexual selection, and domestication.

*4)* *Computational** Genomics**. *We seek for applicants that use computational tools to study human evolution, evolution of gene expression and underlying gene-gene interaction networks, disease and epidemiological process, population history at the genomic scale.

The candidates should have a doctorate degree and strong research background in related fields.

The School of Life Sciences at Peking University provides competitive salary and funding support for biological research and teaching. Successful candidates may also be supported by the Peking-Tsinghua Center for Life Sciences. Interested applicants please send CV, research statement, teaching statement, five representative publications, and contact information of three references to xiangbozhang@pku.edu.cn.

The recruitment continues until all the positions are filled.

Jian Lu, Ph. D. Principal Investigator Center for Life Sciences (CLS) Center of Bioinformatics State Key Laboratory of Protein and Plant Gene Research School of Life Sciences Peking University Beijing, China, 100871 http://evolution-pku.org/ Jian Lu <luj@pku.edu.cn>

## RoyalBotanicGarden Edinburgh EvolMycologist

Research Scientist: Mycologist Salary range £25,947-£30,442 with appointment dependent on experience

The Royal Botanic Garden Edinburgh (RBGE) is a recognised Centre of Excellence in plant and fungal diversity. Located in a UNESCO World Heritage city famed for its scientific innovation and cultural interest, the RBGE operates across a full range of activities from taxonomic monography to biodiversity genomics to ecosystem function and services.

We are seeking to employ a mycologist at our Edinburgh Garden who is or will become an international scientific leader. The successful applicant's research will explore fungal diversity (e.g. systematics, ecology, evolutionary biology) to address societal challenges. As examples, these challenges may include but are not restricted to (i) the role of fungal diversity in maintaining ecosystem function and services, (ii) best practice in managing fungal disease threats to native (non-crop) ecosystems, and/or (iii) providing tools to promote human understanding of harmful and useful fungal diversity.

We are particularly interested in applicants who can demonstrate scientific excellence that is of international importance, and is also relevant to conservation policy in Scotland.

Applicants must be educated to PhD level (with PhD already obtained or about to be obtained). You should be an excellent researcher with a proven track record appropriate for your career stage, and have strong scientific writing ability. You'll also need to be an effective communicator with the ability to clearly articulate the relevance of your research to both specialist and non-specialist audiences, and good interpersonal skills will be essential to develop and maintain effective relationships with colleagues.

A full job description and person specification < http://www.rbge.org.uk/assets/files/about_us/Vacancies/Mycologist%20Job%20Description%20&%20Person%20Spec.pdf > can be downloaded from this page. Ideally we see the postholder working on a full-time basis, but we would consider applications from exceptional candidates looking to work part-time.

Further details of RBGE's science can be obtained from www.rbge.org.uk/science. Informal enquiries or questions with regards to this post can be directed to Dr Chris Ellis, Head of Cryptogamic Plants and Fungi (c.ellis@rbge.org.uk).

Interested applicants should send a CV and covering letter, outlining the skills and experience you could bring to the post, as well as a completed equal opportunities form < http://www.rbge.org.uk/assets/files/about_us/Vacancies/EO_Questionnaire.doc >, to recruitment@rbge.org.uk by 5pm GMT on Fri. 29th August 2014.

If you have not heard from us within 2 weeks of the closing date please assume that your application has not been shortlisted on this occasion.

No recruitment agencies please.

The Royal Botanic Garden Edinburgh is a charity registered in Scotland (No SC007983)

Rebecca Yahr <R.Yahr@rbge.ac.uk>

## Smithsonian ResIntern ButterflySpeciation 2

Internship to study butterfly speciation in the tropics

We are seeking a research intern to work on a project at the Smithsonian Tropical Research Institute (STRI) in Panama from November 2014 for a period of at least one year. The project will focus on speciation in Heliconius butterflies (for more information please see http://heliconius.zoo.cam.ac.uk/).

The intern will join a vibrant community of scientists studying the origins and maintenance of tropical diversity (see http://www.stri.si.edu). In particular, the successful candidate will work closely with members of the McMillan (STRI) and Jiggins groups (Cambridge, UK). The project is based in Gamboa and the intern will be responsible for managing a project investigating the genetic basis of host use shifts between two sympatric Heliconius species. The project involves breeding butterflies, managing crossing experiments and conducting behavioural assays. Applicants must be able to work independently and be committed to spending considerable time in Panama. Knowledge of Spanish would be useful but is not essential.

A stipend of US$800/month will be provided to cover accommodation and living costs in Panama.

Please send applications, or further questions, to Dr Richard Merrill (r.merrill@zoo.cam.ac.uk) with a CV and the names and contact details of two referees. Please use the subject header: "PANAMA INTERN" before 1st August 2014.

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/ rmm60@hermes.cam.ac.uk

## TexasAMU EvolutionaryMicrobiology

Faculty Position in Microbiology Texas A&M University

The Department of Biology at Texas A&M University (TAMU) invites applications for a tenure-track Assistant Professor position in microbiology.

We will consider candidates pursuing innovative research in all disciplines of microbiology, including, but not limited to, bacteriology, mycology, virology, immunology, host-pathogen/parasite interactions, developmental-, environmental-, evolutionary- or behavioral microbiology, genetic mechanisms and genomics, synthetic biology and biotechnology. The criteria for selection will be uniqueness, creativity and excellence in research and scholarship. We strongly encourage applications from candidates who will increase the exposure of our students to a diverse culture.

The successful candidate will be expected to develop an externally funded research program and to teach undergraduate and graduate courses. We offer an interactive and collegial research environment, a modern infrastructure, and a competitive startup package. More information about our department can be found at www.bio.tamu.edu. For full consideration, appli-

cants should email a letter of intent, curriculum vitae, statement of research and teaching interests, and three letters of recommendation by October 1, 2014 to microsearch@bio.tamu.edu

If you have questions about this search, please direct e-mails to Dr. L. Rene Garcia, Chair of the Search Committee, at microsearch@bio.tamu.edu

Texas A & M University is an Equal Opportunity/Affirmative Action employer that is dedicated to the goal of building a culturally diverse and pluralistic faculty and staff who are committed to teaching and working in a multicultural environment. We strongly encourage applications from women, minorities, veterans, and individuals with disabilities. In addition, the University is responsive to the needs of dual career couples.

Gil Rosenthal <grosenthal@bio.tamu.edu>

## UAlberta CollectionsAdvisor

The University of Alberta Museums is pleased to announce an exciting employment opportunity. Details can be found at the University of Alberta Careers Homepage at the link listed below. We would appreciate your assistance with forwarding and circulating these opportunities as appropriate.

Thank you for your assistance.

Collections Management Advisor (Natural Sciences) - U of A Museums Competition No. - S10662308 Posting Date - July 4, 2014 Closing Date - August 4, 2014

The University of Alberta is seeking a dynamic professional for the position of Collections Management Advisor (Natural Sciences), University of Alberta Museums. The University of Alberta is one of the largest collecting institutions in Canada with more than 17 million objects and specimens in disciplines ranging from art to zoology. Reporting to the Museum Collections Manager, Museums and Collections Services, and working collaboratively with the Collections Management Team, the Collections Management Advisor (Natural Sciences) is responsible for providing collections management advice, support, and training to the Curators and Collections Staff of the specimen-based teaching and research collections within the University's Natural and Earth Science collections.

For more information and to apply go to http://-www.careers.ualberta.ca/Competition/S106623804/ Christina Marocco Administrative Team Lead University of Alberta Museums University of Alberta, Ring House 1 Edmonton, Alberta Canada, T6G 2E1 T: 780-492-5818 F: 780-492-6185 www.museums.ualberta.ca facebook.com/ualbertamuseums twitter.com/ualbertamuseums

fsperlin@ualberta.ca

## UCalifornia Berkeley 2 ResTech ProtistEvolution

*Research Technician I (2 open positions)*

*King Laboratory: kinglab.berkeley.edu*

*HHMI and University of California, Berkeley *

*Job Summary*:

The Howard Hughes Medical Institute has an exciting opportunity for two Research Technicians to join the laboratory of Dr. Nicole King at University of California Berkeley.

The King laboratory studies choanoflagellates, the closest living relatives of animals, to reconstruct animal origins and investigate molecular mechanisms underlying host-microbe interactions. We are seeking two highly motivated and exceptionally organized biologists to assist in developing and optimizing genetics in the emerging model choanoflagellate species *S. rosetta*. Individuals seeking an exciting research opportunity before applying to graduate school are invited to apply.

*Principal Responsibilities*:

- Generate and visually screen for choanoflagellate mutants. - Isolate, catalog, and characterize new mutant strains. - Perform and optimize conditions for crosses in *S. rosetta.* - Prepare choanoflagellate DNA for genotyping and whole genome sequencing. - Keep meticulous laboratory records. - Participate in laboratory meetings and planning sessions. - Read literature releveant to research areas as required. - Assist King lab scientists and technicians in a variety of cellular and molecular biology techniques on other projects ongoing in the lab.

*Preferred Qualifications*:

- Bachelor of Science degree in biology or a related field. - Knowledge of basic principles of genetics, gained through coursework or prior laboratory experience. - At

least one year experience working in a laboratory setting. - Experience with molecular biology techniques, microscopy, tissue culture, and sterile technique. - Able to troubleshoot and perform a variety of new techniques. - Exceptional organizational skills and record keeping. - Strong oral and written communication. - Self-motivated, detail-oriented and able to perform complex tasks effectively and independently with general instruction, while being engaged in a collaborative project.

*To apply:*

Please send a single .pdf file that includes a cover letter explaining your qualifications for and interest in the position, your CV, contact information for three references and copies of your course transcripts to Heather Middleton at kinglab@berkeley.edu

nicoleking.ucb@gmail.com

## UCambridge PlantSystematics

Please circulate the following. Many thanks, Beverley

Opportunity: Lecturer/Curator at the University of Cambridge

Deadline: 18 August

The role-holder will contribute to teaching and research in plant systematics and taxonomy, including course development, lecturing, conducting seminars and supervising undergraduate and/or graduate students. They will be expected to develop teaching programmes for a range of audiences, and undertake research relevant to plant systematics and taxonomy leading to publication.

The role-holder will develop the strategic policy and planning framework to ensure that the plant collections meet the research and education requirements of the Cambridge University Botanic Garden. They will promote and facilitate accessibility of the collections and provide taxonomic expertise crucial to the research and teaching values of the Garden's plant collections.

The ideal candidate will be a researcher with an internationally recognised track record of publication in plant systematics or taxonomy, and experience of working in a multi-stakeholder environment. They will have a PhD or equivalent in a relevant specialist subject area as well as a good working knowledge of collections-based institutions and how they contribute to scientific understanding. An interest in, and empathy with, horticulture and the management needs of living collections would be advantageous, together with a successful track record of fundraising.

For more information go to: http://-www.plantsci.cam.ac.uk/jobs/pd03809 To unsubscribe or change your settings for this mailing list go to: https://www.jiscmail.ac.uk/cgi-bin/webadmin?A0=-ARABUK bjg26@hermes.cam.ac.uk

## UDurham EvolutionaryBiol

The School of Biological and Biomedical Sciences at Durham University, UK, have announced a recruitment drive for several new staff members at all levels ranging from Research Fellows to Professors with a closing date of 22 July. The research expertise of applicants is open with the recommendation that applicants state how their research could complement existing expertise within the School. Naturally, it would be great to get a strong showing of applicants with backgrounds in Evolutionary Biology to strengthen this field within the School. Links to the adverts on jobs.ac.uk are below. I'm not directly involved in the recruitment process but I am happy to advise in any way I can if you have any specific questions.

Research Fellows: http://www.jobs.ac.uk/job/-AJA387/research-fellows/ Other more senior positions: http://www.jobs.ac.uk/job/AJA402/lecturer-senior-lecturer-reader-professor/ Dr Adrian Brennan, Research Fellow in Plant Science School of Biological and Biomedical Science, Durham University South Road, Durham DH1 3LE, UK Office 168, Tel: +44 (0)1913341251 Email: a.c.brennan@durham.ac.uk

a.c.brennan@durham.ac.uk

## UGeorgia PlantGenomics

Job Description can be found here: http:/-/jobs.sciencecareers.org/job/331182/assistant-professor-in-quantitative-genomics/ POSITION: This is a 12-month tenure track faculty position with a 80% research and 20% teaching appointment in the Department of Crop and Soil Sciences, The

University of Georgia. The position is home based at the University of Georgia Athens campus.

DUTIES AND RESPONSIBILITIES: The person that fills this position will be responsible for developing an internationally recognized program in one or more of the following: genetics based on high-dimensional data analysis, statistical genomics, genome-wide analysis, gene-environment interactions, and/or epigenetics of crop plants. Development of an independent research program that focuses on the application of quantitative/statistical genomics to crop plants is expected. UGA offers a vibrant research environment with potential collaborations with faculty in crop genetics (http://www.plantbreeding.uga.edu), plant sciences (http://plantcenter.uga.edu) and bioinformatics (http://iob.uga.edu). The successful candidate is expected to conduct research that will result in securing extramural funding and publication of manuscripts in peer-reviewed journals. Teaching responsibilities will include instructio n of graduate and/or undergraduate courses and training of graduate students in the areas of quantitative genomics, statistical genetics or plant breeding, as determined by the Department of Crop and Soil Sciences and the Institute for Plant Breeding, Genetics and Genomics and assigned by the Department Head.

BASIC QUALIFICATIONS: A Ph.D. in plant breeding, genetics, quantitative genetics or genomics, or a closely related field is required. Candidates should have demonstrated skills in verbal and written communication, interpersonal relationships, statistical computational systems, and an ability to workwell with students and colleagues.

Application: Electronically send application package to: Scott Jackson atsjackson@uga.edu. Applicants must submit the following documentation: a letter of application, curriculum vita, and names and addresses of four professional references, and any other information that reflects on professional qualifications.

To assure full consideration, applications must be received by 31 August 2014. Anticipated start date is Spring 2015. The University of Georgia is anAffirmative Action/ Equal Opportunity Employer and encourages applicants regardless of gender or ethnic background. Effective January 1, 2008, the Board of Regents has enacted a "background check" policy for new hires in thesystem as a condition of employment. This policy can be found at: http://policies.uga.edu/FA/-nodes/view/1124/Background-investigations .Upon offer of employment, candidate must complete the "Consent for a Background Investigation" form.

sjackson@uga.edu

## UKentucky ResTech InsectEvolution

My laboratory in *insect ecology, behavior and evolutionary biology* at the *University of Kentucky* has an opening for a research technician position. The laboratory technician is responsible for managing research projects (primarily with live insects), maintaining insect colonies, managing laboratory facilities and personnel, and participating in departmental service events.

More details on my lab can be found at www.uky.edu/-˜ cfox, and information on the Department of Entomology at UK is at here: http://www2.ca.uky.edu/-entomology/entomology.php. In addition to this technician position, my laboratory currently has one postdoctoral associate and two graduate students, plus a variety of undergraduate researchers (the number varies among semesters).

To apply, or to get additional details about the position, please follow this link: http://ukjobs.uky.edu/-postings/32629 . Job Title Laboratory Technician Senior Grade Level 40 Type of Position Regular Staff Position Time Status Full-Time Required Education BS

Shift Days, Monday – Friday 8:00 am – 4:30 pm, additional hours required depending on research needs.

Job Summary The Laboratory Technician will support hatch-funded laboratory research in the department of Entomology. This position will manage research projects which include working with live insects in a laboratory, managing internet based projects and assisting students with projects that require extracting DNA and/or protein. In addition, this position will maintain insect colonies, manage lab personnel and research, and participate in departmental service events. Primary responsibilities will include: assist students/post-docs with experiment set-up and execution using live insects, data collection, entry and organization; maintain insect colonies of one or more species and provide adequate animals for laboratory experiments; manage student workers, including hiring, training and supervision; coordinate space and animal needs; manage research laboratory including purchasing supplies, coordinating equipment/facilities maintenance and repairs, and other general laboratory management; and participate in departmental service events which include Night Insect Walk and other outreach events as requested. This research is conducted within laboratory, greenhouse and field environments.

Skills / Knowledge / Abilities The ideal candidate will have insect rearing, identification, and dissection experience; proficiency using a microscope and strong computer skills, primarily experience with Word and Excel. This position will require initiative, high attention to detail, strong interpersonal, planning and organizational skills as well as the ability to work independently.

Preferred Education/Experience Preferred candidates will have a Bachelor's of Science in Biology, Entomology or related discipline; experience rearing or doing research with insects preferred; molecular skills useful but not required; and knowledge of university policies and procedures.

Deadline to Apply 08/03/2014

Pre-Employment Information The University of Kentucky is a Tobacco & Drug Free campus. Any candidate offered this position may be required to pass pre-employment screenings as mandated by University of Kentucky Human Resources. These screenings may include a national background check and/or drug screen.

Dr. Charles W. Fox Professor and Director of Graduate Studies Department of Entomology University of Kentucky Lexington, KY 40546-0091 phone: 859-904-9404 e-mail: cfox@uky.edu web: www.uky.edu/~cfox cfox@email.uky.edu

## UNottingham EvolutionaryBiol

The School of Life Sciences at the University of Nottingham are advertising two fixed-term (12 months and 36 months) Assistant Professorships (= Lectureships).

Details:

Applications are invited for the above role to teach and examine modules in all years of the Biology and Zoology degree courses in two or three of the following areas: Animal Behaviour and Behavioural Ecology, Evolutionary Ecology, Immunology, Introductory Parasitology and Parasitic Diseases, Environmental Physiology.

The successful candidate will be expected to deliver lectures, tutorials, discussion sessions and workshops in several undergraduate modules in the relevant areas, and may also be required to teach on one or two residential field courses. The role holder will supervise undergraduate research projects, and act as a personal tutor. They will be expected to take an active role in module management, and to contribute to the administration of teaching and curriculum development in the School of Life Sciences.

The successful candidate must possess a PhD (or equivalent) in the relevant subject area, together with experience of university teaching in the relevant areas.

This full time role is offered Fixed Term from 1 September 2014 for 12/36 months.

Informal enquiries may be addressed to Dr Tom Reader, Chair of the Biology Teaching Group, tel: 0115 9513213, or Email: tom.reader@nottingham.ac.uk. Please note that applications sent directly to this Email address will not be accepted.

Apply on-line at: http://www.nottingham.ac.uk/-jobs/currentvacancies/cat/210 (be sure to apply separately for both posts if you want to be considered for both)



Tom.Reader@nottingham.ac.uk

## UPennsylvania EvoltuionaryGenetics

The Department of Genetics at the Perelman School of Medicine at the University of Pennsylvania seeks candidates for several Assistant or Associate Professor positions in the tenure track. Daniel J. Rader, M.D. is the newly appointed Chair of the Department of Genetics at the Perelman School of Medicine. The Department of Genetics is comprised of a faculty with diverse investigative interests and has a close affiliation with the

Children's Hospital of Philadelphia.

The successful applicant will have experience in the field of human genetics, model systems genetics, regulation of eukaryotic gene expression, or genomics/computational biology. Responsibilities include developing and carrying out an independent research program and participating in graduate and medical school education. Applicants must have a Ph.D. and/or M.D. degree and have demonstrated excellent qualifications in research and education.

Attractive laboratory space and resources are available. For more information about the department, visit http://www.med.upenn.edu/genetics . To ensure full consideration, applicants are strongly encouraged to apply by October 31, 2014. Please submit a cover letter, curriculum vitae, and a 2-3-page statement of research interests, as well as the names of 3 references.

We seek candidates who embrace and reflect diversity in the broadest sense.

The University of Pennsylvania is an EOE. Minorities/Women/Individuals with disabilities/Protected Veterans are encouraged to apply.

Apply for this position online at: https://-www.med.upenn.edu/apps/faculty_ad/index.php/-g306/d3673

Sarah Tishkoff, Ph.D. David and Lyn Silfen University Professor Departments of Genetics and Biology University of Pennsylvania Tel: 215-746-2670 tishkoff@mail.med.upenn.edu http://-www.med.upenn.edu/tishkoff/

tishkoff@mail.med.upenn.edu

## UPorto MicrobialDiversityEvolution

Microbial Diversity and Evolution

A research position in Microbial Diversity and Evolution is available at CIBIO (http://cibio.up.pt), University of Porto, Portugal, under the Program ON2.

Candidates should have a PhD in biology, preferably a minimum of 3 years as Post-doc and a Curriculum vitae proving solid knowledge in the field. They should additionally have a good and relevant publication record in SCI journals and have supervised or co-supervised academic theses (MSc and PhD). The selected candidate is expected to build positive research interactions with the resident researchers, to establish international collaborations, and be capable of attracting national and international funding. S/he should be a good communicator and be completely fluent in English. The selected researcher may be invited to participate in teaching MSc and PhD classes and therefore, teaching experience will be considered a bonus.

The selected researcher will join the Microbial Diversity and Evolution Group which conducts basic and applied research on microbial diversity and evolution.

The ideal candidate will contribute to addressing the groups' medium-term challenges, namely:

i) to develop culture-independent methods to detect/identify and genotyping bacteria directly from environmental samples, ii) to conciliate in a single procedure the specificity of genomic markers used in DNA-based detection assays with the clonal resolution of fine-tune genotyping methods, iii) to continue the research on the evolution of taxa-specific markers; iv) to perform comprehensive genome data mining using comparative genomics tools and phylogenetic analysis to infer genomic footprints of bacterial ecotypes.

The ranking of candidates will result from a global appreciation of the Curriculum vitae, possibly followed by a job interview. Salary will correspond approximately to a gross annual income of 45.000 â¬($beforetaxes$).

The position will start on the 1st of October 2014 and will end on the 30th of June 2015. After the end of this contract, another contract maybe offered depending on performance and availability of funds.

Applications should be sent to bolsas.cibio@cibio.up.pt and will include a motivation letter and a research statement, a detailed CV and the email contact of three referees. The jury is composed by: Dr. Fernando Tavares (Chair), Dr. Paulo Alexandrino and Prof. Nuno Ferrand de Almeida. Substitute member is Dr. Natália Dias.

Applications are open until the 31st of August 2014. Job Reference: MDE ON2

There is no obligation to hire any of the candidates. CIBIO has an equal opportunity policy. We aim to ensure that no applicant receives less favorable consideration on the grounds of gender, marital status, race, age, color, nationality, ethnic origin or religious belief. Candidates will be informed about the result of their application by email.

Informal enquiries can be made to: Dr. Natália Dias Executive Coordinator of CIBIO Natalia.Dias@cibio.up.pt Phone: +351 252660422

Natalia Dias <natalia.dias@cibio.up.pt>

## UQueensland AnimalEvolution

The University of Queensland is looking for a Science Leader for the Animal Genetics Laboratory.

The Animal Genetics Laboratory (AGL) operates within the School of Veterinary Science and is located at the Gatton campus. AGL is a commercial and research laboratory that provides genotyping services to cattle and alpaca producers and their organisations, mostly for parentage verification. The AGL is also a provider of genotyping, sequencing and quantitative PCR services to researchers within the School, as well as to research groups from other Faculties in the University.

The role

This position will manage and lead the Animal Genetics Laboratory in the provision of genetic diagnostic services, development of new genetic diagnostic tests and high quality research in animal genetics

The Person

Applicants should have a Bachelors degree in animal or veterinary science and PhD in the area of animal genetics or molecular biology

Remuneration

This is a full-time, fixed term appointment of 5 years at Academic Level B or C. The base remuneration package will be in the range:

Academic Level B - $84,323.66 to $100,134.07 p.a, plus employer superannuation contributions of 17% (total package will be in the range ($98,658.68 to $117,156.86 p.a.).

Academic Level C - $103,296.12 to $119,106.52 p.a., plus employer superannuation contributions of up to 17 % (total package will be in the range $120,856.46 to $139,354.63 p.a.).

Enquiries

To discuss this role, please contact Associate Professor Jennifer Seddon ,Deputy Head of School on+61-7 5460 1838 or email j.seddon1@uq.edu.au.

Further details available at www.uq.edu.au< http://-www.uq.edu.au >, job position number 496158.

Jennifer Seddon <j.seddon1@uq.edu.au>

## USFDA Maryland FoodborneBacteriaMetagenomicsBioinformatics

Description of Work:

The Division of Public Health Informatics and Analytics (DPHIA) within the Center for Food Safety and Applied Nutrition (CFSAN) at the US Food and Drug Administration seeks a creative and enthusiastic research fellow to assist in the analysis of next-generation DNA sequencing data. The primary research focus of the fellow will be on the analysis of metagenomic datasets as a means to (1) better quantify the microbial diversity associated with foodborne pathogens and (2) evaluate the utility of metagenomics as a culture-independent method for pathogen detection (e.g., of Salmonella Montevideo, Salmonella Enterititidis, Salmonella Heidelberg, and Listeria monocytogenes).

The fellow will also support microbiologists in the analysis of data from sequencing projects of bacterial pathogens (e.g., whole genome sequencing, RNA-Seq). The projects using whole genome sequence data from bacterial pathogens include samples collected from foodborne outbreaks, and the research will include the construction of phylogenies from whole genome sequence data, gene specific analyses, and identification of mobile elements.

The fellow is also encouraged to develop an independent research project that furthers the mission of the FDA and the analytics group within CFSAN. Examples of such a project include the development of novel metagenomic analyses, evaluating alternative strategies for assigning taxonomy to reads, and the visualization and extraction of information contained in large metagenomic datasets.

CFSAN and the Biostatics Branch is a vibrant community of specialists from a number of different disciplines (e.g., epidemiologists, chemists, microbiologists, biostatisticians, and bioinformaticians). Applicants should email Dr. James Pettengill at james.pettengill(at)fda.hhs.gov with questions about the position.

Desired Skills: - Educational background (PhD or MS) in microbiology, genetics/genomics, phylogenetics, bioinformatics, statistics and/or computer science - Familiarity with next-generation sequence data (e.g., fastq format) - Proficient at running programs for the anal-

ysis of metagenomic data (e.g., mother, QIIME) - Proficient at running de novo assembly algorithms (e.g., Velvet, SPADES, SOAPdenovo) and reference based mapping programs (e.g., Bowtie2, BWA) - Proficient in a computer language such as R, Python, or Perl. - Skilled in the management, organization, and querying of large files/databases

Application Materials: - Cover letter describing previous and future research interests - CV/Resume - Contact information for three references - To be mailed as a single pdf to james.pettengill(at)fda.hhs.gov

Duration: 2 years

Location: FDA, Center for Food Safety and Applied Nutrition 5100 Paint Branch Parkway College Park, MD 20740-3835 USA

Salary/Benefits: The position is offered through the Oak Ridge Institute for Science and Education. The position does not include funds to offset moving. The position does not include benefits. ORISE offers a plan or the fellow can have her/his own but proof of insurance is required before beginning the position. However, funds are available for travel to conferences/workshops.

Stipend: $6,091.67/month x 12 months $73,100.00 per year

fixtgear@gmail.com fixtgear@gmail.com

## USFDA Maryland FoodborneBacteriaMetagenomicsBioinformaticsBacteriaGenomicsBioinformatics

*Description of Work:*

The Division of Public Health Informatics and Analytics (DPHIA) within the Center for Food Safety and Applied Nutrition (CFSAN) at the US Food and Drug Administration seeks a creative and enthusiastic research fellow to assist in the analysis of next-generation DNA sequencing data. The primary focus of the research fellow will be the analysis of whole genome sequence data from food-borne pathogens. The fellow is expected to be proficient with 1) algorithms and programs to perform whole genome assembly, 2) software for detection of variant nucleotide positions with respect to a reference genome, and 3) the construction and interpretation of phylogenies based on next-generation sequence data.

The fellow would also serve as a genome database specialist to help curate genomic sequence data generated both at CFSAN and externally. As part of the curation work, the fellow will contribute to improving the entire process of formatting, loading, and vetting both genomic data and associated meta-data from food borne pathogens. The production of reference data sets for the evaluation of analysis methodologies will be an important aspect of this work, as will be the use of statistical and bioinformatics analysis tools to explore analysis methodologies. The curation work and associated analysis methodology work is expected to play an important role in providing faster and better traceback information for bacterial isolates during outbreak investigations.

The fellow is also encouraged to develop an independent research project that furthers the mission of the FDA and the analytics group within CFSAN. Examples of such a project include the development of novel genomic analyses, evaluating alternative strategies for identifying variant sites, and the visualization and extraction of information contained in large whole genome sequence datasets and associated phylogenies.

CFSAN and the Biostatics Branch is a vibrant community of specialists from a number of different disciplines (e.g., epidemiologists, chemists, microbiologists, biostatisticians, and bioinformaticians). Applicants should email Dr. James Pettengill at james.pettengill(at)fda.hhs.gov with questions about the position.

*Desired Skills:*

Educational background (PhD or MS) in microbiology, genetics/genomics, phylogenetics, bioinformatics, statistics and/or computer science.

Familiarity with next-generation sequence data (e.g., fastq format).

Proficient at running de novo assembly algorithms (e.g., Velvet, SPADES, SOAPdenovo) and reference based mapping programs (e.g., Bowtie2, BWA).

Proficient in a computer language such as R, Python, or Perl.

Skilled in the management, organization, and querying of large files/databases.

*Application Materials:*

Cover letter describing previous and future research interests

CV/Resume

Contact information for three references

To be mailed as a single pdf to

james.pettengill(at)fda.hhs.gov

*Duration:*

2 years

*Location:*

FDA, Center for Food Safety and Applied Nutrition

5100 Paint Branch Parkway

College Park, MD 20740-3835 USA

*Salary/Benefits:*

The position is offered through the Oak Ridge Institute for Science and Education. The position does not include funds to offset moving. The position does not include benefits. ORISE offers a plan or the fellow can have her/his own but proof of insurance is required before beginning the position. However, funds are available for travel to conferences/workshops.

Stipend: $6,091.67/month x 12 months $73,100.00 per year

fixtgear@gmail.com

## USheffield PopGeneticsDataAnalyst

*Data Analyst post at the University of Sheffield*

*Job Reference Number: *UOS008845

Department of Animal and Plant Sciences, University of Sheffield

*Salary: *Grade 7 28,972 per annum

*Closing Date: *14th August 2014

*Job Title: *Data Analyst

A researcher with experience in population genetic analyses, with relevant bioinformatic skills, is required to join the NERC Biomolecular Analysis Facility (NBAF) node in Sheffield. The successful candidate will assist Facility users with study design, data analysis and training, and contribute to the node's research and development activities. Applicants should have a PhD or equivalent experience in molecular ecology or evolutionary genetics, including genetic analyses (for example, population genomics, population structure, mating systems, linkage mapping or phylogeny) and possess excellent analytical skills, preferably including experience of bioinformatic programming tools.

The post is fixed-term with an immediate start date for a period of 12 months in the first instance.

For more information click on 'Apply'- and then 'About the Job' on the following webpage,

http://www.jobs.ac.uk/job/AJD880/data-analyst/

For informal enquiries about this job and department, contact: Professor T A Burke on t.a.burke@sheffield.ac.uk or on 0114 222 0096.

Application should be made via the jobs.ac.uk webpage.

– Dr Deborah Dawson

Manager of the NERC Biomolecular Analysis Facility - Sheffield http://www.shef.ac.uk/nbaf-s/home Deborah A Dawson <d.a.dawson@sheffield.ac.uk>

## UTennessee HeadDeptEvolutionaryBiol

The Department of Ecology and Evolutionary Biology (http://eeb.bio.utk.edu) at the flagship campus of the University of Tennessee in Knoxville is seeking a senior colleague for the position of Professor and Head. The new Head will guide the growth of the department and help us to build on existing strengths in mathematical biology, macroevolution, ecological genetics, behavior, and global change ecology. We seek a candidate with a strong record of excellence in research and teaching, a history of effective leadership, and a vision of how to foster the continued progression of the program into one of the top EEB departments in the nation. The successful candidate will be able to manage administrative duties while maintaining an active research program.

The Department of Ecology and Evolutionary Biology is a dynamic and collaborative group of 21 faculty and over 50 graduate students. Our department maintains a field station in the nearby Smoky Mountains, close ties to nearby Oak Ridge National Lab, and synergy with the National Institute for Mathematical and Biological Synthesis (http://NIMBioS.org). Knoxville is also an exciting town that has undergone a vibrant civic revitalization over the past several years, yet it remains one of the most affordable cities in the US and the region has been rated as one of the best in the country for eventual retirement. The University of Tennessee welcomes dual-career couples and pursues family-friendly policies. The Knoxville campus of the University of Tennessee is seeking candidates who have the ability and enthusiasm to contribute in meaningful ways to the diversity and intercultural goals of the University. The

Head position is open to individuals who are qualified to be appointed at the full professor level with tenure at the University of Tennessee.

To apply, please send the following in a single pdf-formatted document to mander16@utk.edu: (1) a cover letter that includes a vision statement for the heads leadership role in the intellectual growth of our department, (2) a statement of teaching philosophy/experience, (3) a statement of current and near future research interests, (4) names and contact information for five referees, (5) a CV. Review of applications will begin on Sept. 1, 2014 and will continue until the position is filled. Potential applicants may also contact Search Committee Chair Prof. Hanno H. Weitering (hanno@utk.edu) or Prof. Susan E. Riechert (sriecher@utk.edu) with questions; more information about our Department, including our current strategic plan, is available at http://eeb.bio.utk.edu/headsearch .

All qualified applicants will receive equal consideration for employment and admissions without regard to race, color, national origin, religion, sex, pregnancy, marital status, sexual orientation, gender identity, age, physical or mental disability, or covered veteran status.

Eligibility and other terms and conditions of employment benefits at The University of Tennessee are governed by laws and regulations of the State of Tennessee, and this non-discrimination statement is intended to be consistent with those laws and regulations.

In accordance with the requirements of Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Act of 1990, The University of Tennessee affirmatively states that it does not discriminate on the basis of race, sex, or disability in its education programs and activities, and this policy extends to employment by the University.

Inquiries and charges of violation of Title VI (race, color, national origin), Title IX (sex), Section 504 (disability), ADA (disability), Age Discrimination in Employment Act (age), sexual orientation, or veteran status should be directed to the Office of Equity and Diversity (OED), 1840 Melrose Avenue, Knoxville, TN 37996-3560, telephone (865) 974-2498 (V/TTY available) or 974-2440. Requests for accommodation of a disability should be directed to the ADA Coordinator at the Office of Equity and Diversity.

Brian O'Meara <omeara.brian@gmail.com>

## UtrechtU Biodiversity

Utrecht University's Ecology & Biodiversity Group investigates the mechanisms that regulate biodiversity and allow for the maintenance of ecosystem functioning in our changing world. We pay special attention to above- and belowground species interactions, spatial processes from local to landscape scales and community assembly following dispersal and colonization. We seek to obtain process-based, mechanistic understanding of species interactions and functional responses in order to predict the future impacts of climate and land-use changes on biodiversity and ecosystem functions such as carbon sequestration and biogeochemical cycling.

The integrated research mission of the Ecology and Biodiversity group is 'Understanding and predicting biodiversity and ecosystem functioning in a changing world.'

The Ecology & Biodiversity research group looks to advance its integrated research program (http://www.uu.nl/faculty/science/EN/contact/-Researchinstitutes/IOEB/research/groups/eb/Pages/-research.aspx) with the appointment of an enthusiastic and dedicated:

Assistant/Associate Professor Plant Ecology

For a more detailed job description and online application forms, please visit www.uu.nl/vacancies Application deadline: July 27th, 2014

Kind regards, and thank you,

Merel Soons

Dr. M.B. Soons Associate Professor in Ecology and Biodiversity Institute of Environmental Biology Utrecht University Padualaan 8 3584 CH Utrecht

m.b.soons@uu.nl +31-(0)30-253 6837 www.uu.nl/-science/eb www.staff.science.uu.nl/ ~ Soons101/ "Soons, M.B. (Merel)" <M.B.Soons@uu.nl>

## UVirginia BioinformaticsAnalyst

The Department of Biology at the University of Virginia invites applications for a Bioinformatics Research

Analyst position to provide bioinformatics support for population and quantitative genomics projects in the Blackman laboratory. The research of the Blackman laboratory focuses on the genetic basis of domestication and adaptation, the ecology and evolution of plant development, and mechanisms of gene-environment interaction. Using sunflower and monkeyflower as study systems, current work is focused on reconstructing the genetic history of domestication through paleogenomics as well as the genetic changes and ecological pressures contributing to natural variation in developmental responses to daily and seasonal environmental cues.

The analyst will work closely with the PI, collaborators, and lab personnel to design and/or implement algorithms and computational pipelines to process high-throughput sequencing datasets for population and quantitative genetics analysis or plant genome assembly. The position may also involve developing and/or running tools for phenotype scoring by automated image analysis. The analyst will also be responsible for building and maintaining databases for management of biological samples, sequencing, and phenotype data. The position also involves writing reports, presenting research results at lab meetings and conferences, data management and dissemination, administration and maintenance of computational infrastructure, mentoring graduate and undergraduate students, and related tasks in support of research projects.

The position requires a Bachelor's degree in Evolutionary Biology, Genetics, Bioinformatics, Computer Science or related field. At least 8 years related lab experience, or the equivalent combination of advanced education and experience, with a minimum of two of those years of experience with bioinformatics programming tools for analysis of next generation sequencing data is required. The incumbent will demonstrate the ability to integrate across biological disciplines, identify and troubleshoot promising new methodologies independently, and be able to coordinate with multiple research staff concurrently to pursue diverse questions or types of analysis. Demonstrated expertise in programming and scripting (such as Unix and Perl and/or Python), a good understanding of high performance computing, and knowledge of probability theory are essential. Proficiency in C/C++, Javascript, R, Matlab, and/or SQL is preferred. Experience with statistical analysis, morphometrics, cluster computing, IT support, and development of web applications is highly desirable.

Preferred start date is August 2014.

This position is estimated to last for a year with the option of renewal contingent on the availability of funding and satisfactory performance.

To apply, please submit a staff application through Jobs@UVA (https://jobs.virginia.edu) and electronically attach: curriculum vitae, a cover letter that summarizes research interests and professional goals, and contact information for three (3) references; search on posting number 0614596.

Review of applications will begin July 24, 2014; however, the position will remain open until filled.

Questions regarding this position should be directed to: Dr. Benjamin Blackman 812-369-5045 bkb2f@virginia.edu http://people.virginia.edu/~bkb2f/Blackman_Lab/

Questions regarding the Staff application process or Jobs@UVA should be directed to: Rich Haverstrom rkh6j@virginia.edu

The University of Virginia is an Equal Opportunity/Affirmative Action Employer. Women, Minorities, Veterans and Persons with Disabilities are encouraged to apply.

bkb2f@virginia.edu

## UWashington ViralEvolutionSocialNetworks

UW.ViralEvolutionSocialNetworks

Programmer/Researcher UW.Viral Evolution Social Networks

The UW Center for Studies in Demography and Ecology (CSDE) and Department of Microbiology have teamed up to provide an outstanding opportunity for a Scientific Programmer/Researcher (Research Scientist/Engineer 3) to integrate within-host models for viral dynamics into social network models for the spread of HIV within populations.

The Programmer/Researcher will do scientific research and computer programming while providing computer support services for project investigators. The research component will involve developing and testing scientific hypotheses related to one or more of the following subject areas: social network modeling; epidemiology; mathematical modeling of population dynamics; evolutionary biology; population genetics; HIV virulence and pathogenesis; and resistance to anti-retroviral drugs. The programming component requires the candidate

to construct, test, and maintain programs written in C and R; create detailed documentation; and publish packages on the Comprehensive R Archive Network (CRAN). Interact with multiple scientists with diverse interests and expertise in order to write papers, develop software, and interact with end-users of the integrated software. The programmer/researcher will also present results at scientific meetings and participate in the development of materials for training workshops on the software.

In the initial phases of the project, the Programmer/Researcher will spend most of his or her time working with social scientists at the CSDE. As the project progresses, he or she will spend increasing amounts of time working with biomedical researchers in the Department of Microbiology.

Requirements:

- MS or Ph.D. in a Quantitative Field (e.g., Computer Science, Mathematics, or Statistics) or a Biomedical/Social Science Field that includes significant mathematical and computational components and three to five years' experience .

- Ability to read, analyze and write scientific papers

- Expertise in the R programming language and package development in R.

- Experience with the C programming language.

- Excellent communication skills

- Willingness to write detailed software documentation for end users.

- Has established technical expertise; serves as a resource to research unit/department.

Equivalent education/experience will substitute for all minimum qualifications except when there are legal requirements, such as a license/certification/registration.

To apply, go to https://-uwhires.admin.washington.edu/eng/candidates and enter requisition number 107046 in the required field. If you have questions about this position, you may contact Josh Herbeck (jherbeck@uw.edu), Steve Goodreau (goodreau@uw.edu), or John Mittler (jmittler@uw.edu).

Joshua Herbeck <herbeck@uw.edu>

## Other



### AnnArbor Hackthon Sept15-19

Final Call to Apply for the Tree-for-All: A hackathon to access OpenTree's global phylogeny resources.

A global 'tree of life' will transform biological research in a broad range of disciplines from ecology to bioengineering. To help facilitate that transformation, the OpenTree < http://opentreeoflife.org/ > project [1] now provides online access to >4000 published phylogenies, and a newly generated tree covering more than 2.5 million species.

The next step is to build tools to enable the community to use these resources. To meet this aim, OpenTree < http://www.opentreeoflife.org/ >, Arbor < http://-www.arborworkflows.com/ > [2] and NESCent's HIP < http://www.evoio.org/wiki/HIP > working groups [3] are staging a week-long hackathon September 15 to 19 at U. Michigan, Ann Arbor. Participants in this 'Tree-for-all' will work in small teams to develop tools that use OpenTree's web services to extract, annotate, or add data in ways useful to the community. Teams also may focus on testing, expanding and documenting the web services.

How could a global phylogeny be useful in your research or teaching? What other data from OpenTree would be valuable? How could OpenTree web services be integrated into familiar workflows and analysis tools? How could we add to the database of published trees, or enrich it with annotations?

If you can imagine using these resources, and you have the skills to work collaboratively to turn those ideas into products (as a coder, or working side-by-side with coders), we invite you to apply for the hackathon. The full call for participation (http://bit.ly/1ioPPMc) provides instructions for how to apply, and how to share your ideas with potential teammates (strongly encouraged prior to applying). Applications are due July 8th. Travel support is provided. Women and underrepresented minorities are especially encouraged to apply.

If you have questions, contact Karen Cranston (karen.cranston@nescent.org, @kcranstn, OpenTree), Arlin Stoltzfus (arlin@umd.edu, HIP), Julie Allen ( juliema@illinois.edu, HIP), or Luke Harmon (lukeh@uidaho.edu, Arbor).

[1] http://www.opentreeoflife.org [2] http://-www.arborworkflows.com/ [3] http://www.evoio.org/-wiki/HIP (Hackathons, Interoperability, Phylogenies)

Julie Allen Postdoctoral Researcher Illinois Natural History Survey University of Illinois www.juliamallen.com julieallen34@gmail.com

## Bowerbird Evolution VolFieldAssist

BOWERBIRD SIGNAL FUNCTION AND EVOLUTION: VOLUNTEER (unpaid) field research assistant needed October-December 2014

I am looking for an experienced female field worker to help my female Ph.D. student doing field work on Great Bowerbirds, approximate dates October through to mid December 2014. (Female because the field house offers little privacy). Ideally the volunteer should have extensive experience with birds. The volunteer should also know how to drive a 4WD vehicle in easy to moderate conditions (we almost never have to shift into 4WD) and not mind living in fieldwork conditions.

Duties generally involve helping to drive to bower sites, walking between bowers (up to 4km), carrying equipment and helping to check/maintain the camera equipment at bowers on a regular basis, as well as the initial set up and final taking down of the camera systems, solar panels and batteries used to run the cameras. Other duties will include sound recording, backing up video onto USB disk drives, some analysis of the video recordings collected, and helping to do two object presentation experiments.

This field work takes place on a remote cattle station (Ranch in North American parlance) in Queensland, so it is hot and dry. This will involve a fair amount of walking in these conditions so the volunteer should be reasonably fit. Transportation will be provided to/from the field station from Townsville (the nearest airport). The successful applicant will have to share a simple house with the PhD student and help with the day to day aspects of fieldwork as well as cooking and keeping the house tidy. This cattle station is full of wildlife (the owners really know how to care for the land) so expect to see lots of kangaroos, emus and bustards, among other animals. It is well into the outback so internet connections are weak and absent in some days; this is not something a city-type would enjoy.

If you are interested, please e-mail me directly, John.Endler@deakin.edu.au John A. Endler, Centre for Integrative Ecology, Deakin University, Australia.

Prof. John A. Endler. FAA, FAAAS Alfred Deakin Professor Editor-in-Chief, Evolutionary Ecology Centre for Integrative Ecology School of Life & Environmental Sciences Deakin University, Waurn Ponds Campus

75 Pigdons Road Waurn Ponds, VIC 3216, Australia email: John.Endler@deakin.edu.au tel: 03 5227 1313, or +61 3 5227 1313 mob: 0488 255 712 Deakin University CRICOS Provider Code 00113B

"John A. Endler" <John.Endler@deakin.edu.au>

## Career survey

Dear colleagues, Id be grateful if you could please help me spread the call for a short survey below, as well as take it yourself. Kind regards, rob

Moving countries early on in the academic career of ecologists and evolutionary biologists seems to have become a common practice' but at what costs? and for what benefits? To address these questions, a survey has been created for ecologists and evolutionary biologists. The survey contains 24 short questions, and it will take you approx. 4 mins, should you decide to take it.

http://tinyurl.com/ov7oh56 This project aims to quantify the frequency with which early-career ecologists and evolutionary biologist move countries compared to more senior individuals, as well as the perceived benefits and costs of doing so. This is a completely voluntary survey, and no personal information (e.g. email, ID) will be collected. The information collected will be used to provide summary statistics on early career moves for a short note to be submitted to a peer-review journal.

Many thanks for considering and disseminating it!

Rob Salguero-Gomez, PhD ARC DECRA fellow r.salguero@uq.edu.au University of Queensland, Centre for Biodiversity and Conservation Science Goddard (Building #8), St Lucia QLD 4072, Australia Office phone: +61 7 3365 1376

This study adheres to the Guidelines of the ethical review process of The University of Queensland and the National Statement on Ethical Conduct in Human Research. Whilst you are free to discuss your participation in this study with project staff (contactable on +61 7 3365 1376 or r.salguero@uq.edu.au), if you would like to speak to an officer of the University not involved in the study, you may contact the Ethics Coordinator on +61 7 3365 3924.

Q: Why is the text above (likely) Ü5 sentences?A: http://five.sentenc.es "Aliud iter ad prosperitatem nos est: id est omnibus rebus vincere" Rob Salguero-Gmez, PhD Australian Research Council DECRA Fellow; Research Fellow of the Max Planck Institute for Demographic Research Contact info and more: https://sites.google.com/site/robresearchsite Roberto Salguero-Gomez <r.salguero@uq.edu.au>

## DavidStarrJordan Prize

The David Starr Jordan Prize For Innovative Contributions to the Study of Evolution, Ecology, Population and Organismal Biology

In 1986, Cornell, Indiana and Stanford Universities established a joint endowment to fund a prize in honor of David Starr Jordan, a scientist, educator and institution builder, who had enormous influence on higher education in the United States and important ties to each of these universities. The prize is international in scope and presented approximately every three years to a young scientist (not over the age of 40 at the deadline for nomination, or if over 40, less than 10 years since receiving the Ph.D.).

The intent of this prize is to recognize young scientists who are making novel innovative contributions in one or more areas of Jordan's interest: evolution, ecology, population and organismal biology, and who are likely to redirect the principal foci of their fields. In addition to a $20,000 cash award, the recipient will receive a commemorative medal, will attend an awards ceremony, visit each of the sponsoring institutions and give scholarly presentations of his/her work. The selection of the prize winner will be made by a committee composed of representatives from each of the three institutions. This year the award ceremony will be held at Indiana University.

Nominations forms are posted on the David Starr Jordan Prize Website (www.davidstarrjordan.org). Nomination forms with supporting materials should be submitted electronically. Questions should be directed to:

Dee Verostko Indiana University Department of Biology 1001 E. Third Street, JH 127 Bloomington, IN 47405 (812-855-6283 - FAX 812-855-6705 - email dverostk@indiana.edu

All nomination materials must be received prior to September 15, 2014. For more information including a list of previous prize winners and their accomplishments, visit: www.davidstarrjordan.org "Tarter, Jennifer A" <jenjones@indiana.edu>

## DNA extraction suggestions

Dear members

I am a PhD student working on population genomics of freshwater shrimp, Paratya australiensis. I am trying to extract high quality, high molecular weight DNA (~3ug, >50kb); from Paratya for RAD-sequencing. I have tried different extraction methods on fresh and frozen samples so far, e.g. Spin-Column extraction, CTAB extraction and Salt extraction. Besides, I have also tried an extended gDNA extraction procedure by incorporating a salting out step prior to phenol/chloroform cleanup. But unfortunately these methods have all produced what appears to be a smear of degraded DNA rather than high molecular weight band on agarose gels. Can anyone suggest me any other procedures that might help?

Thanks.

Sharmeen Rahman

PhD student, Australian Rivers Institute

Environment 2 Building N13, 2.02A, Nathan Campus

Griffith University, 170 Kessels Road, Nathan QLD 4111

Tel: +61 7 3735 57711, Fax: +61 7 37357459

email:sharmeen.rahman@griffithuni.edu.au

Sharmeen Rahman <sharmeen.rahman@griffithuni.edu.au>

## Drosophila saltans lines

Dear all,

I was wondering if anyone has a Drosophila saltans line they might be able to send me a copy of? Needed asap ideally with a good number of flies so I can quickly build up to large numbers.

Thanks very much in advance,

Ben

Ben Longdon Department of Genetics University of Cambridge +44 (0) 1223 741830 b.longdon@gen.cam.ac.uk http://benlongdon.wordpress.com http://-www.gen.cam.ac.uk/research/Jiggins/Ben.html bjl48@hermes.cam.ac.uk

## Ecuador VolFieldAssist Parakeets

*FIELD RESEARCH ASSISTANT*

*Location:* El Oro, Ecuador

*Duration:* 15 November 2014 V 15 April 2015

*Job Type:* Temporary

*Application Deadline:* 15 August 2014

*Job Description:* FIELD RESEARCH ASSISTANT needed for investigation of the endangered endemic El Oro Parakeet,* Pyrrhura orcesi,* throughout its breeding season. Field team will be working in the tropical montane cloud forest of SW Ecuador, in Buenaventura Reserve and the adjacent habitat matrix. The project will examine the impact of habitat fragmentation on this cooperatively breeding parakeet and will design a sociobosque corridor that protects its continued dispersal. Field work will include nestbox trapping of parakeets for measurement, banding, and sampling; observation based on coloured leg bands; gathering landscape data; and outreach, education, and survey work in the local community.

Position is unpaid, but flight costs, accommodation, and food will be covered by the project. Start and end dates are somewhat flexible. The rough aim is for a schedule consisting of 5 field days, 1 data entry day, and 1 resting day; however the schedule will be entirely dictated by the needs of the project and thus be subject to constant modification.

*To apply*: Applicants should send a letter of interest and CV with names, telephone numbers, and e-mail address of three references to Emma Steigerwald at emma.c.steigerwald@gmail.com. The email subject should be Research Assistant Application. Applications must be submitted by 15 August 2014.

*Qualifications:* *Bachelors degree in biology or related major, attained or working towards

*Spanish fluency is highly desirable

*FitnessXability to cope with long field days traversing difficult and steep terrain

*Attention to detail in collecting and entering reliable

data

*Experience handling birds, reading colour ID bands, and using GPS will be valued

*Willingness to work in rainy, cool, and muddy conditions

–

*Emma Steigerwald* *Keegan Travelling Fellow 2013-2014*

*Keegan blog: http://www.vanderbilt.edu/-travelfellowship/blogs/steigerwald/ *B.S. Molecular and Cellular Biology Vanderbilt University, Nashville, TN Mobile: 404.512.4261*

*Skype username: emma.steigerwald*

Emma Steigerwald <emma.c.steigerwald@gmail.com>

## ESEB outreach funds

**ESEB Outreach Fund**

The European Society for Evolutionary Biology (ESEB) welcomes applications to the ESEB Outreach Fund for projects that promote evolution-related activities. The goal of this initiative is to improve public knowledge about evolution globally.

Applications for funding will be accepted for educational initiatives that promote evolution, development of evolutionary material (books, films, websites) intended for a general audience, public outreach seminars, public exhibitions, etc. While most projects will be financed for a sum between 1000-1500 Euro, exceptions can be made if a strong argument is provided for additional funds.

The application form can be found on www.eseb.org (click on the "Outreach Fund" link). Applications will be accepted twice yearly (deadlines March 15, September 15) and should be submitted by email to Ute Friedrich (office@eseb.org; Subject: Outreach).

Dr. Ute Friedrich ESEB Office Manager Email: office@eseb.org European Society of Evolutionary Biology - www.eseb.org

office@eseb.org

## EuropeanBioinformaticsInst Survey

Dear Colleagues,

I hope I can ask a favour of you to distribute this email to your institution or department. This is about a survey for EBI and we have a particular problem in reaching in our surveys non-bioinformatics people. It would be great if you could really urge people to fill this in, even if they "don't feel like a bioinformatician" or "don't use computers" (which we doubt in these days!).

Getting good, rounded feedback from our user community is really important.

Thank you in advance.

Nick Goldman

—-> Please forward to your department from here –>

Dear Colleagues

I am forwarding an email from EMBL-EBI for a survey on bioinformatics database and tool usage. They particularly would like to get responses from non-computational laboratory scientists :

https://www.surveymonkey.com/s/3GSMGY8 The EBI is interested in your views about our services, which include UniProt, Ensembl and other free databases/tools for life science researchers. Even if you don't know the EBI, or don't use bioinformatics websites often, we still really value your input.

* It takes 10-15 minutes * There are no compulsory questions * The survey is anonymous unless you indicate at the end of the survey that you wish to be contacted * You might find out about EBI services you never knew existed!

https://www.surveymonkey.com/s/3GSMGY8 Thank you in advance for your time.

goldman@ebi.ac.uk

## Evolution ResponsesToMusic Survey

This survey study concerns evolution of cognitive reactions to music. Below, you will find general information

about the study. After reading the information, you can decide whether you would like to participate in the survey. The link to the survey is:

http://esurv.org/online-survey.php?surveyID=-OBEMHK_60d9f9ba&u=musicandemotion The purpose of this study is to explore how people experiences of music hace evolved across human populations and cultures. The study is part of a large project conducted by the Music Psychology Group at Uppsala University in Sweden.

As a participant, you will be asked to complete an electronic survey on the internet. The survey takes approximately 20 minutes to complete.Your participation is voluntary. You are free to withdraw your participation from the study at any time. All responses in the survey will be recorded anonymously.The study is funded by the Swedish Research Council, and involves no commercial interests. Data collected will be used only for scientific purposes.

We are not able to provide any monetary compensation, but your participation would make an important contribution to the scientific and evolutionary study of music, and would be much appreciated. A summary of the results will be available in early 2015 at this website: http://www.psyk.uu.se/forskning/-forskargrupper/musicpsychology/ If you decide to participate in the study, please answer all questions as carefully as possible.

The link to the survey is:

http://esurv.org/online-survey.php?surveyID=-OBEMHK_60d9f9ba&u=musicandemotion "Andres J. Cortes" <aj.cortes235@gmail.com>

## French Pyrenees VolFieldAssist Tits

Opportunities available for motivated students to participate in an ongoing project investigating social behavior and cognition in wild and captive blue and great tits. Starting times, duration of the internship and tasks can be flexible. We seek a committed research assistant available as soon as possible to help with analysis of behaviour from videos recorded at feeders during winter and ideally able to continue into Autumn (October/November). Another position will be available from September/October until end of November for a field and aviary assistant. The assistant is expected to help with caring of captive birds, perform experiments in captivity (e.g cognitive trials, tests of dominance at feeders, mate choice experiments), and to assist with capturing of birds in the field. For the latter task, experience with mistnetting and ringing of birds would be highly desirable.

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, commitment, attention to details (video analysis) 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, as soon as possible. For further information and applications, please contact Enrico Sorato: enrico.sorato@ecoex-moulis.cnrs.fr

Enrico.SORATO@ecoex-moulis.cnrs.fr

## Landscape Genetics Datasets

Dear EvolDir community,

I am writing to you in support of a collaborative research project that I am participating in through the Landscape Genetics Distributed Graduate Seminar (DGS). The DGS is an interdisciplinary course that employs Internet-based lectures, laboratories at home institutions, and group projects involving graduate students and faculty mentors from several continents to teach landscape genetics techniques. Within the group projects, we work collaboratively with students across several universities to develop important research questions, with the goal of publishing a peer-reviewed article.

Our study, which I am writing to you about on behalf of my group, is seeking to conduct a review of landscape-wide effects of fragmentation by roads on genetic diversity and structure. Our aim is to characterize these effects across numerous plant and animal taxa in North America and Europe. As a group, we are currently reviewing several publications that assess genetic diversity and genetic structure of individuals and/or populations.

Accordingly, this is a request for datasets that we can

include in our analysis. All datasets will be cited and we will keep contributing authors aware of the progression of our work. Specifically, we are seeking to identify datasets containing (a) raw genotypic data of sampled individuals and/or populations; and (b) associated spatial coordinates of the sampled individuals and/or populations.

If you or any colleagues have such datasets and are willing to share them with us, please contact Charlotte Gabrielsen by email (cgabrie2@uwyo.edu). I will be happy to provide any additional information or answer any questions you may have regarding our project.

In the meantime, thank you in advance for your time and support of our project!

Best,

Charlotte Gabrielsen (University of Wyoming) Philip Bertrand (Trent University) Laura Cuervo (Georg-August-Universität Göttingen) Lindsay Miles (Virginia Commonwealth University) Kirstin Proft (University of Tasmania) Denim Jochimsen (University of Idaho) Niko Balkenhol (Georg-August-Universität Göttingen) Lisette Waits (University of Idaho)

gabrielsenc@gmail.com

## Museum Otter DNA

Dear EvolDir Members:

I would like entering in contact with someone who is working on ancient DNA from museum otters (any of the 13 living species). I am working with Lutrogale perspicillata (smooth-coated otter) museum samples, mostly toe pads (foot pads). But in some cases I also used "skin" fragments from skull (i.e. turbinal bones).

I am facing with much more difficulties with respect to the work on toe pads from museum galliforms, and I am starting to think that toe pads in otters are not source of aDNA as good as skin fragments from skull (or toe pads in galliforms). Although I am aware that generalisations are quite hard in this field, might this depend on the fact that when these animals die this may occur in water (or on the fact they spend a lot of time in the water)? Any opinion in this respect? Any suggestions?

Thank you,

Filippo Barbanera University of Pisa, Italy

filippo.barbanera@unipi.it

– Filippo Barbanera Researcher Department of Biology Zoology and Anthropology Unit Via A. Volta, 4 I-56126 Pisa Italy

tel. + 39 050 2211386 fax + 39 050 2211393 web page: http://www.biologia.unipi.it/-index.php?id=4164_research&L=1 Filippo Barbanera <filippo.barbanera@unipi.it>

## NESCent in Retrospect

NESCent in Retrospect: What Has NESCent Meant To You?

NSF funding for NESCent (the National Evolutionary Synthesis Center) is coming to an end, and we will be closing our doors in June of 2015, after 10 years of evolutionary science, informatics and outreach.

If you are a past participant in NESCent activities, we'd love to hear your thoughts on the impact NESCent has had on you, and/or the evolution community, at large. We invite you to record and submit a brief (30 seconds or less) video testimonial in which you discuss NESCent's impact on your research or teaching, or simply share a favorite NESCent memory.

Your video message can be funny or serious (or both). You can express your feelings through word, song or interpretive dance. You are free to use claymation, CGI or the plain, old talking-into-the-camera approach. We just want you to help us tell the story of NESCent.

These videos don't need to be professionally made - feel free to record them on your iPhone/smartphone, laptop webcam or via any other method that works for you. Click here https://docs.google.com/forms/d/-1nl5CGC0LPGbpfLDyN_q5uwWd2pQ4Pjo_IjSTXMTiJCU/-viewform to submit your video. The videos will be shared on NESCent's website. Please submit your video by November 1st, 2014. For more information, contact Jory Weintraub (jory at nascent dot org).

Thank you for being an important part of our story. We look forward to hearing your thoughts on NESCent!

Jory P. Weintraub, PhD Assistant Director, Education & Outreach National Evolutionary Synthesis Center (NESCent) 2024 West Main St., Suite A200, Durham, NC 27705 Phone: 919.668.4578 Fax: 919.668.9198 Email: jory@nescent.org Skype: jory.weintraub

"Weintraub, Jory P" <lviscrst@live.unc.edu>

## PhenotypicIntegration RoyalSociety

Royal Society Publishing has just published an issue of Philosophical Transactions B on âPhenotypic integration and modularity in plants and animals', edited by W Scott Armbruster. This issue addresses theoretical and empirical aspects of integration and modularity in plants and animals, living and fossil. More information, and the content of the issue, can be accessed at http://bit.ly/PTB1649 A print version is available at the reduced price of Â£35.00. You can order online via the above web page (enter special code TB1649 when prompted). For a list of all issues in this area, please visit http://bit.ly/orgissues Felicity Davie Royal Society Publishing

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felicity.davie@royalsociety.org felicity.davie@royalsociety.org

## PlantEvolution RoyalSociety

Royal Society Publishing has just published an issue of Philosophical Transactions B on "Contemporary and future studies in plant speciation, morphological-floral evolution, and polyploidy: honouring the scientific contributions of Leslie D. Gottlieb to plant evolutionary biology", edited by Daniel Crawford, Jeffrey Doyle, Douglas Soltis, Pamela Soltis and Jonathan Wendel. More information, and the content of the issue, can be accessed at http://bit.ly/PTB1648 A print version is available at the reduced price of £35.00. You can order online via the above web page (enter special code TB1648 when prompted). For a list of all issues in this area, please visit http://bit.ly/orgissues Felicity Davie Royal Society Publishing

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felicity.davie@royalsociety.org felicity.davie@royalsociety.org

## Seeking PlantEvolution Book

Dear All:

I'm teaching a small graduate course this fall on the semi-unique ways that plants evolve compared to vertebrates and many diocieous animals that make up the core of many evolution textbooks.

The most current one that I know " Verne Grant's Plant Speciation. Second edition. is woefully outdated.

Yes, I'll have the students read reviews and other articles, but I would really appreciate it if someone could recommend a book that can help them hit the ground running BEFORE reading one of those papers. Something that can cover allopolyploidy, permanent translocation heterozygosity, mobile elements, mixed mating systems, the various methods of plant asexuality, aneuploidy, plasticity, heterostyly, etc.

Please respond directly to me: ellstrand@ucr.edu

Thanks in advance!

Norman Ellstrand Professor of Genetics University of California Riverside, CA

ellstrand@ucr.edu

## Software SISRS PhylogenomicData

SISRS is a new tool for extracting phylogenetically informative data directly from whole-genome or whole-transcriptome paired-end shotgun reads without a reference genome. Input for SISRS are FastQ files separated into folders by OTU (e.g. species). The output nexus file includes sites that are invariable within taxa and variable among taxa. The amount of missing data allowed can be included as input. A reference genome can be included to identify the location of the sites in the output alignment. SISRS is free and open source distributed under a GPL v3.0 license.

SISRS can be dowloaded from https://github.com/-rachelss/SISRS/releases and the manuscript describing the SISRS method and successful simulations and case

studies can be found at http://arxiv.org/abs/1305.3665 . Slides from my Evolution 2014 talk can be found at http://figshare.com/articles/Evolution_2014/1074910 .

If you have trouble or results using SISRS please email me at Rachel.Schwartz@asu.edu .

Rachel Schwartz, PhD Assistant Research Scientist Cartwright Lab Center for Evolutionary Medicine and Informatics The Biodesign Institute Arizona State University Tempe, AZ

## Survey postdocs

Hello,

Id be grateful if you could post the survey link below to evoldir.

I am researching the factors that might influence postdoc job applications and I am looking for responses from people who finished their PhD in 2009 or later in the broad field of evolutionary and population biology, ecology and genetics. The survey is very short and only takes a few minutes to complete.

Thanks very much for your time.

Very best, Fiona

The survey is here: https://www.surveymonkey.com/s/MDG8K5T Dr Fiona C Ingleby Postdoctoral Research Fellow University of Sussex

Email: F.Ingleby@sussex.ac.uk Website: fionaingleby.weebly.com

Fiona Ingleby <F.Ingleby@sussex.ac.uk>

## UEastAnglia VolFieldAssist CapeVerdeWarbler

Hi,

I am a PhD student at the University of East Anglia working on a PhD project about population differentiation in the Cape Verde warbler. This project aims to assess differences in ecology, morphology and genetics between the remaining populations of the Cape Verde warbler. We conducted a field season last year with the aim of collecting samples for genetic analysis. This year, we plan to characterize habitat features and insect abundance, conduct population censuses, record bird sound, ring birds and possibly collect blood and faecal samples. Work will be conducted on Santo Antão, S. Nicolau, Fogo and Santiago.

We are seeking a field assistant for three months (September-December 2014). Accommodation, food and local transportation will be provided, but the volunteer will have to pay for his/her own flight to Cape Verde. Experience in bird, insect or habitat surveying, or bird ringing desired, We mostly seek an adventurous and flexible field assistant, as protocol adjustments and schedule changes are likely to happen, and living conditions are not always comfortable. There is an opportunity to develop a MSc project, for example on how bird song differs across populations.

For more information on the project and previous field season please see: http://www.rufford.org/projects/helena_batalha http://www.scvz.org/acagarra6.html http://www.africanbirdclub.org/sites/default/files/2013_CV_Warbler2.pdf If you are interested please send an email to h.batalha@uea.ac.uk by 15th July 2014 with relevant field experience, contact details of references and a CV.

Helena Batalha PhD Student School of Biological Sciences University of East Anglia NR4 7TJ Norwich UK

PS. please note that this warbler lives in sugar cane plantations, coffee fields, mountains... we are not going to spend 3 months working on the beach ;)

“Helena Batalha (BIO)” <H.Batalha@uea.ac.uk>

## USaskatchewan VolFieldAssist PrairiePopulations

Field Assistants Required IMMEDIATELY- Black-tailed prairie dogs Grasslands National Park, Saskatchewan, Canada

We are looking for 1-2 volunteers to assist with fieldwork beginning ASAP and continuing until Aug 31 or Oct 10 (preference will be given to those who can stay for the full duration). The project investigates the ecology of Black-tailed prairie dogs and will involve live-trapping, handling and monitoring of individuals. Prairie dog towns are home to (among others): burrowing owls, swift fox and, the recently reintroduced,

black-footed ferret. Assistants will have the opportunity of seeing all of these iconic grassland species, plus the many more resident in the Park. This is an excellent opportunity to gain experience working with a population of wild mammals in a spectacular setting.

All fieldwork is carried out in Grasslands National Park, southern Saskatchewan, one of the largest remaining tracts of native prairie in Canada. We will be staying in Parks Canada housing in the heart of the Park. Food and accommodation are provided. Volunteers are required to provide for their own travel to Saskatoon, Saskatchewan. Travel between the field station and Saskatoon is provided. Training will be provided and no experience is necessary, but candidates should have an interest in the following (the more the better!): ecology, evolutionary biology, wildlife, field biology, and animal behaviour. The field house and study population is isolated and, as such, successful applicants need to be able to cope under these conditions, enjoy the outdoors, be up-beat, positive, responsible and work well as a member of a team.

If you wish to apply for one of these posts then please send a CV with a cover letter and contact details for three references (with e-mail addresses), by email to Jeff Lane (contact info below) ASAP.

Contact: Dr. Jeff Lane Department of Biology University of Saskatchewan jeffrey.lane@usask.ca www.lanelab.ca jeffrey.lane@usask.ca

## Video recordings Evolution2014

About 100 people generously volunteered to let their talks be recorded at the recent Evolution 2014 conference in Raleigh, NC, in June, and approximately 80 talks were successfully recorded (~10% of the total presented at the meeting). These were recorded via smartphones as part of an experimental program, so the quality is somewhat variable, but the majority are clear (i.e., slides easily readable). This effort was sponsored by the Society for the Study of Evolution and executed by a team of student volunteers.

The list of recorded talks (with links to their abstracts and videos) is available at: https://docs.google.com/spreadsheets/d/18AFCFTuC-3dwRuNTBF1L78eEboNkZa0Ajli7UsWOTs4/edit?usp=sharing If you'd just like to browse the recorded talks, they are in a YouTube channel at: https://www.youtube.com/channel/UCq2cZF2DnfvIUVg4tyRH5Ng Again, this was an experimental program, we appreciate the efforts of everyone who made these videos possible, and we apologize to the minority of speakers either who wanted but didn't get their talks recorded or whose slides are not (easily) readable. We hope the community appreciates the accessibility these videos bring to exciting scientific results, and that these videos encourage people to attend one of the future Evolution conferences in person to see more great science and to interact in person. Next year's conference will be in Guaruja, Brazil: http://sbg.org.br/Evolution2015/ (website in progress)

noor@duke.edu

# PostDocs

## BilkentU ComparativePopulationGenomics

Postdoctoral Fellowship in Comparative & Population Genomics of the Pearl Mullet

A postdoctoral position is available immediately at the Computational Genomics and Bioinformatics Group < http://donut.cs.bilkent.edu.tr/ > in Bilkent University, Ankara, Turkey, joint with the Comparative & Evolutionary Biology Group < http://-compevo.bio.metu.edu.tr/ > at METU, Ankara.

The successful candidate will be responsible for leading a project that involves de novo assembly and comparative analysis of the pearl mullet (Chalcalburnus tarichi) genome. This is a fish endemic to Lake Van of eastern Turkey, and one of few known examples of adaptation to extremely alkaline (pH 9.8) water.

The goal will be to determine the genetics of alkaline adaptation by comparative genomic, population genomic and transcriptome analyses. Another question to be answered will be the population structure and demographic history of the pearl mullet, which recently underwent a severe bottleneck.

The project will include the following steps: - De novo assembly and the annotation of the pearl mullet genome using both Illumina and Pacific Biosciences data. - Comparative genomics analysis to understand the evolution of the Cyprinidae family and adaptive evolution of the pearl mullet. - Transcriptome analysis for genome annotation; identification of gene expression networks underlying adaptation to alkaline water. - Population genomics analysis of samples from different sections of the lake to understand the pearl mullet's migration and breeding patterns and population history.

Further details can be found in our lab web page at: http://donut.cs.bilkent.edu.tr Requirements: - Ph.D. degree in bioinformatics, genomics, computer science, or related fields. Ph.D. candidates who expect to graduate soon are welcome to apply. - Experience in genome assembly and annotation is strongly preferred. - Experience in evolutionary genetics, population genomics, or transcriptome analysis is a plus. - Strong programming skills in at least one high level programming language; such as C, C++, Java, or Python.

A competitive salary and subsidized on-campus accom-

modation will be provided. The successful candidate will also be encouraged to apply for the TTAK 2232 (for Turkish candidates) and the Co-Funded Brain Circulation Scheme fellowship programs (all candidates; gross monthly salary 4,167; deadline September 19, 2014; URL: http://www.cocirc.tubitak.gov.tr/node/9). The initial appointment will be for one year, with renewal available for two more years.

Applicants should email a cover letter, CV, brief research statement and list of 3 references to Dr. Can Alkan (calkan@cs.bilkent.edu.tr), or Dr. Mehmet Somel (somel.mehmet@gmail.com). Please combine all files into a single PDF and use the subject line Postdoc Application (Pearl Mullet): (name).

Further contact details below.

Can Alkan, Ph.D. Assistant Professor Bilkent University Department of Computer Engineering EA-509 Bilkent, Ankara 06800, Turkey Phone: +90-312-290-2912 Email: calkan@cs.bilkent.edu.tr http://www.cs.bilkent.edu.tr/ ~ calkan somel.mehmet@googlemail.com

## Brazil EvolutionaryBiol

No: 650 Title: Post doctoral fellowship in Evolutionary Biology Field of knowledge: Genetics

FAPESP process: 11/14295-7 (página do projeto na Biblioteca Virtual FAPESP)

Project title: Modularity and its evolutionary consequences Working area: Evolutionary Biology Principal investigator: Gabriel Marroig Unit/Instituition: Instituto de Biociências/USP Partner Instituition: Partner Representative: Deadline for submissions: 05/08/2014 Publishing date: 17/07/2014

Summary: The Instituto de Biociências, located at the Universidade de São Paulo (USP), seeks candidates to fill a post-doctoral scholarship from FAPESP - www.fapesp.br/en/5427. The research area includes: the study of modularity (genetic and phenotypic) in bats and their evolutionary consequences for morphological diversification in the group. The candidate should preferably have a database on morphometric data already collected in a representative group of bats with enough diversity and phylogenetic scope to allow analysis of modularity and the evolution of characters mean based on a comparative framework. The candidate should also have a solid foundation in statistics, quantitative genetics, evolutionary biology and have notions of comparative analysis and programming. This position will be under the supervision of Associate Prof. Gabriel Marroig. The candidate must be interested in working in collaboration with other researchers and postgraduate students within the research group. The applicant must submit by August 5, 2014 to gmarroig@ib.usp.br a text explaining their research experience and interest in the area as well as an updated resume containing names and contact information of three reserachers who can provide professional references about the candidate. The candidate will be selected by the analysis of the documentation and the position is open immediately to implement the fellowship.

http://www.fapesp.br/oportunidades/650 gmarroig@usp.br

## ColoradoStateU PlantMolecularEvolution

The Sloan Lab in the Department of Biology at Colorado State University has an opportunity for a postdoctoral researcher with experience in plant molecular genetics and biochemistry to lead a 3-year NSF-funded study on cytonuclear co-evolution. Our group focuses on molecular and genome evolution, using a combination of wet-lab and bioinformatic techniques. We are working with flowering plants (a group that exhibits enormous natural variation in mitochondrial mutation rates) to study how rates of evolution in organelle genomes can drive compensatory evolution in the nucleus. We are particularly interested in individuals with wet-lab expertise in plant molecular biology to complement our group's existing strengths in molecular evolution and computational genomics.

Desirable experience/interests include..

- Agrobacterium-mediated transformation of plants (particularly Arabidopsis)

- Biochemical assays of mitochondrial function such as OXPHOS enzyme activity

- Assays of subcellular/organellar protein targeting

- Broad intellectual interests and enthusiasm for addressing evolutionary questions

- Motivation and ideas for seeking independent postdoctoral fellowship funding

- A strong motivation to foster and contribute to a fun, positive, intellectual, and collaborative research environment

Our lab makes extensive use of deep DNA sequencing technologies, so there will be opportunities to gain experience and training with large NGS datasets. Previous bioinformatic experience is always helpful but not essential.

The CSU Department of Biology has strengths in plant molecular biology and ecology/evolution, so postdoctoral researchers can expect a large network of colleagues to aid in professional development.

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 specifically addresses the skills you would bring to the project and how working in the lab would advance your career goals and fit with your intellectual interests. (Please note that inquiries with boilerplate cover letters are likely to be ignored).

Timing is flexible, so those who are still completing their degrees or are 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

## CornellU EvolutionaryGenomicsSpeciation

Postdoctoral position in evolutionary genomics and speciation.

P.I.: Dr. Kerry Shaw, Cornell University

Research Project: A postdoctoral position is available to join an NSF-funded project in the laboratory of Kerry Shaw at Cornell University to study the evolution and genetics of traits involved in reproductive incompatibility and speciation in the Hawaiian cricket genus Laupala. Laupala species are recently diverged and ecologically and morphologically similar, but differ in traits involved in sexual isolation. Behavioral evolution involving these traits is thought to have played a large role in the rapid and extensive diversification of this genus. The genetic basis of acoustic variation will be studied using genomic approaches. A draft genome is available, and we seek to improve it as a means for identifying the genetic architecture of phenotypes involved in speciation.

Requirements: The desired candidate will possess an interest in / experience with molecular tools, quantitative genetics, next gen sequencing, and associated statistical analyses (e.g. R/QTL). Bioinformatics skills (such as basic Linux knowledge, read mapping SNP calling) is desirable, and an interest in acquiring these skills is essential. Basic scripting skills (Perl, Python, Ruby) is a plus. An interest in the evolution of premating isolation is also beneficial, but no prior knowledge in this area is required.

Cornell University has many labs and research groups dedicated to the study of evolution, genomics and behavior and ecology of speciation as well as bioinformatics. As such, it provides a rich academic environment for those interested in evolutionary genomics and speciation.

To apply, email a statement of research interests, a curriculum vitae, and the email addresses of three references to Kerry Shaw (KLS4@cornell.edu). At least two years of funding are available.

“Kerry L. Shaw” <kls4@cornell.edu>

## CornellUniversity Ornithology

Annual Cornell Lab of Ornithology Postdoctoral Competition

The Cornell Lab of Ornithology encourages applications to our competitive postdoctoral program (www.birds.cornell.edu/postdoc) that supports innovative, independent research by early career scholars of exceptional promise. Two or more named positions are available annually, with applications due on September 8.

These postdoctoral opportunities support individuals pursuing cutting-edge scholarship, while fostering intellectual interaction with two or more of the Lab’s programs. Any area of inquiry related to the Lab’s mission “to interpret and conserve the earth’s biological diver-

sity through research, education, and citizen science focused on birds" may be appropriate. Potential applicants are encouraged to learn more about our activities and opportunities, including our formal programs in Bioacoustics, Bird Population Studies (avian ecology), Citizen Science, Conservation Science, Communication, Education, Evolutionary Biology, Information Science, Macaulay Library (animal behavior), Multimedia Productions, and Public Engagement in Science. Research or activities involving several of these areas are particularly appropriate, and therefore each postdoctoral scholar may be co-mentored by two senior Cornell scholars. Potential applicants are encouraged to contact relevant faculty and staff at the Lab to brainstorm about areas of mutual interest and synergistic projects. We are especially interested in supporting the independent research of individuals who can bring new ideas and approaches to the Lab, while simultaneously leveraging our existing tools, data, and expertise in science, education, and communication.

Each Postdoctoral Scholar will hold a two-year appointment at the Lab. Located at the Imogene Powers Johnson Center for Birds and Biodiversity in the 220-acre Sapsucker Woods sanctuary, the Cornell Lab of Ornithology is a vibrant unit within Cornell's University's College of Agriculture & Life Sciences. More than 200 faculty and staff work at the Lab within our 10 mission-driven programs. Our management and staff are committed to the highest standards of ethics and excellence in all areas of our work, and our Board leadership includes faculty from Cornell and other universities, successful entrepreneurs and managers from the business and non-profit sectors, and conservation-minded citizens from the United States and beyond.

These appointments provide a competitive salary, standard Cornell health and other benefits, and funds to help support the Scholar's research and professional travel needs. Start dates are flexible between February and September of the year following the application.

The application package consists of a cover letter, CV, two page research proposal, pdfs of up to three representative publications, and names and contact information for three references. Postdoctoral Scholars must have received their PhD before beginning their postdoctoral appointment at Cornell. Application materials should be sent as a single pdf file to the attention of Sue Taggart (SET2@cornell.edu). Applications for the two positions available in 2014 will be accepted until September 8. The selection committee is chaired by Dr. Irby Lovette (IJL2@cornell.edu), Professor and Associate Director for Academic Affairs at the Lab.

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

Diversity and inclusion have been and continue to be a part of our heritage. Cornell University is a recognized EEO/AA employer and educator.

ijl2@Cornell.edu

## Dartmouth MicrobialEvolution

*Postdoctoral Position in Mathematical Modeling of Microbial Evolution*

A postdoctoral researcher position is available in the lab of Olga Zhaxybayeva at the Biological Sciences Department of Dartmouth College in Hanover, NH to study evolution of gene transfer agents via mathematical modeling. This is a 5-year project funded through the Simons Foundation program in Mathematical Modeling of Living Systems.

Qualified applicant must have a Ph.D. in bioinformatics, applied mathematics, computer science, statistics, biology, microbiology, or a related field with strong interest in molecular evolution, prior research experience in computational sciences and some programming skills.

The successful candidate will join a vibrant research and educational environment of Dartmouth College. Zhaxybayeva's lab uses computational approaches to study how microbes evolve and adapt to their environments. Ongoing projects fall into the following broad areas: 1) Studying impact of horizontal gene transfer on microbial populations; 2) Characterization of microbial communities; and 3) Deciphering genomic signatures of microbial adaptations. More information about Zhaxybayeva's lab is available at http://-www.dartmouth.edu/~ecglab/ . Review of applications will begin immediately and continue until the position is filled. Start date is negotiable. Interested applicants should send a single PDF file containing CV, one-page statement of research interests and contact informa-

tion of three referees to Olga Zhaxybayeva at ECGLab-Jobs@gmail.com.

Dartmouth offers competitive salary and benefits along with the opportunity to live in a picturesque rural region that offers year-round recreational activities and is located near cities of Boston, Montreal, and New York.

Dartmouth College is an equal opportunity/affirmative action employer that has a strong commitment to diversity.

– Olga Zhaxybayeva, Ph.D. The Simons Foundation Investigator and Assistant Professor Department of Biological Sciences Dartmouth College 026 LSC 78 College Street Hanover, NH 03755 USA

Office: (603) 646-8616 Lab: (603) 646-9397 Email: olgazh@dartmouth.edu Web: http://www.dartmouth.edu/ ~ ecglab/ http://-dartmouth.edu/faculty-directory/olga-zhaxybayeva Olga.Zhaxybayeva@dartmouth.edu

## Durban SouthAfrica EvolutionHIV

Postdoctoral Research Fellows in HIV

We invite applications from ambitious clinical or non-clinical postdoctoral scientists, to undertake research in a Flagship programme of the Wellcome Trust & MRC in South Africa

We wish to attract high quality postdoctoral scientists to undertake HIV research at the Africa Centre for Health and Population Studies, University of KwaZulu Natal, South Africa (http://www.africacentre.ac.za & http://www.bioafrica.net).

The Centre is funded by the Wellcome Trust and is developing close academic links with University College London and London School of Hygiene and Tropical Medicine.

Up to five Postdoctoral Fellowships are available. Potential areas of study include population and biological aspects of HIV in the context of the South African epidemic although other areas of investigation will be considered. We particularly invite applications related to:

- HIV transmission dynamics

- Molecular epidemiology host-pathogen interaction

- Geospatial approaches to the design of targeted HIV prevention strategies

- Biostatistical approaches to epidemic causality

- Causal impact evaluation of HIV interventions

- Emergence of HIV drug resistance

The Genomics Programme provides example of three post-docs fellowships topics:

HIV Genomics & Bioinformatics I - This Fellowship aims to apply and develop bioinformatics software applications in order to understand phylogeography patterns of HIV transmission. (http://www.bioafrica.net/-news.php?id5)

HIV Genomics & Phylogenetics II - This Fellowship aims to develop and/or apply phylogenetic software applications to create a framework to identify epidemiologically important HIV strains. (http://-www.bioafrica.net/news.php?id4)

HIV & HTLV Bioinformatics & Phylogenetics III - This fellowship aims to apply and develop bioinformatics software applications to analyze large datasets of HIV-1 and HTLV-1 complete genomes. (http://-www.bioafrica.net/news.php?id3)

Applicants will have demonstrated their potential to become successful scientists through high quality publications and an innovative research plan. The successful candidates will be supported to apply for externally funded personal fellowships, which should be based at UCL or LSHTM in the UK. In such cases, we will supplement the Fellowship award with further research funding. The positions are based at the Africa Centre, which has a surveillance base near Mtubatuba (2 hours north of Durban) and superb laboratory facilities in Durban, although flexibility exists for time in South Africa and abroad

Candidates will therefore be required to consider mentors at the Africa Centre as well as UCL/LSHTM. Please see:

https://www.ucl.ac.uk/infection-immunity/research http://www.ucl.ac.uk/iph/research https://-www.lshtm.ac.uk/ http://www.bioafrica.net Interested candidates holding a PhD, and with clear evidence of internationally competitive research (through high quality publications), are invited to send their CV?s and discuss their interest informally with one or more the following Africa Centre staff in the first instance, prior to formal application:

Professor Deenan Pillay, Director of the Africa Centre. HIV drug resistance and pathogenesis (dpillay@africacentre.ac.za)

Professor Tulio de Oliveira, Director of the Genomics Programme at Africa Centre. Molecular Epidemiol-

ogy, Bioinformatics & Host/Pathogen Genomics ( tdeoliveira@africacentre.ac.za)

Professor Frank Tanser, Director of Population Epidemiology Programme, Epidemiology (ftanser@africacentre.ac.za)

Professor Till Barnighausen, Director of the Health & Impact Evaluation Programme. Biostatistics, Health Economics (tbarnighausen@africacentre.ac.za)

Thanks Tulio

Open access publications & information on my research group website www.bioafrica.net Prof. Tulio de Oliveira Programme Director (Genomics), Wellcome Trust Africa Centre for Health and Population Studies, South Africa Professor, College of Health Sciences, University of KwaZulu-Natal, Durban, South Africa. Director, Southern African Treatment Resistance Network (SATuRN) Honorary, Research Department of Infection, University College of London (UCL), U.K. Email:tdeoliveira@africacentre.ac.za Twitter: https://twitter.com/#!/drug_resistance YouTube: http://www.youtube.com/bioafricaSATURN/ Skype: tuliodna, gmail: tuliodna@gmail.com Tel: +27 35 550 7542, Fax: +27 35 550 7500

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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

## Edinburgh PostDocGenomicsOfAsexuality

http://tinyurl.com/blx030664 Position in Mark Blaxter's group in Edinburgh: Postdoctoral Research Associate in Evolutionary Genomics Closing Date 25-Jul-2014

Applicants with a strong background in evolutionary genomics, bioinformatics and genome analysis are invited for the position of Postdoctoral Research Associate to build, annotate and analyse new genome datasets to investigate the effects of organismal reproductive mode on genome content and diversity.

This multi-centre, NERC-funded project is using modern evolutionary comparative genomics approaches to study the rate and pattern of genome sequence change with and without the action of meiosis, and across different levels of inbreeding. The project is using newly generated nematode genome data, leading to an understanding of the role of reproductive mode in shaping genome content. The post-holder will use advanced computational tools and hardware to assemble, validate and annotate novel genome sequences from next generation data, and perform comparative analyses of these genomes in a phylogenetic framework.

The post is based within the genomics research group of Prof. Mark Blaxter, within the Institute of Evolutionary Biology (IEB) and in close association with Edinburgh Genomics. IEB houses a large and diverse group of researchers, provides excellent facilities, and is a dynamic environment for research in evolutionary biology. Edinburgh Genomics is one of the UK's leading next generation sequencing facilities, and is involved in a very wide range of next-gen projects using Illumina and other technologies. The project will also make use of the University's major compute grid resource. This project is in collaboration with Dr. David Lunt, from the Department of Biological Sciences and the Hull Evolutionary Biology Group, University of Hull, and the PDRA will be encouraged to develop strong links across both groups.

contact mark.blaxter@ed.ac.uk to discuss.Applications via the University website (http://tinyurl.com/blx030664)

£30,728 - £36,661

mark.blaxter@ed.ac.uk

## GeorgiaTech MicrobialGenomics

Postdoc in Microbial Genomics

The Stewart lab in the School of Biology at Georgia Tech is looking for a postdoctoral fellow in microbial genomics. The postdoc will work jointly with Dr. Stewart and Dr. Jennifer Glass in the School of Earth and Atmospheric Sciences on a project to understand microbial methane and sulfur cycling in marine oxygen minimum zones and freshwater sediments. Research tasks will involve comparative analysis of single-cell genomic, metagenomic, and metatranscriptomic datasets, molecular analysis of microbial DNA and RNA, and the preparation of samples for next generation sequencing. The postdoc will be encouraged to develop independent lines of research within the broader goals of the

project and the lab, and will work collaboratively with Dr. Stewart, Dr. Glass, and other lab members to perform research and synthesize results for publication.

The ideal candidate will be enthusiastic, motivated by experimental and analytical challenges, and proficient in a range of bioinformatics and molecular techniques. Candidates should have a Ph.D. in genomics, microbiology or a related discipline, with demonstrated expertise in comparative genomics, metagenomics, or transcriptomics. Knowledge of the physiology of anaerobic microorganisms, microbial evolution, and marine microbiology is desirable.

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

This position is available immediately, although there is flexibility in the start date. Funding is available for at least two years, but is contingent upon satisfactory progress in year one; applicants should express their ability to commit to the project for the initial two years. Informal inquiries about the position can be sent to Frank Stewart at frank.stewart@biology.gatech.edu. Application materials should be emailed to the same address and should include a cover letter (describing your interest in the position, work experience, and availability), CV, and contact information (name, email, phone number) for at least three references. Please include the word "Postdoc" in the subject line. Salary will be competitive and commensurate with experience and will include fringe benefits.

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

– Frank J. Stewart, Ph.D. Assistant Professor School of Biology Georgia Institute of Technology ES&T building, office #1242 311 Ferst Drive Atlanta, GA 30332-0230 office: 404-894-5819 www.fjstewart.org

frank.stewart@biology.gatech.edu

## Halifax PDF PhD FishGenomics

Graduate Students (MSc and PhD) and postdoctoral position in Fisheries Genomics and Evolutionary Ecology - Halifax, NS, Canada

Positions: Graduate student positions and a postdoctoral fellow position are available at Dalhousie University and Fisheries and Oceans Canada (Halifax, NS) working on the ecology, evolution, and conservation genomics of fishes and invertebrates. Species of primary interest are Atlantic salmon and Atlantic cod, but current projects include other anadromous fish and species of marine invertebrates as well. The labs research is broadly concerned with resolving adaptation and how it may influence both the geographic and genomic scale of divergence among allopatric and sympatric populations. (seefor more details).

The specific projects willinvolve using next generation sequencing approaches to resolve signatures of adaptation across genomes and populations and the use of molecular tools in mixture analysis and individual assignment. Themes include adaptation to climate, invasive species, and the impact of escaped farmed salmon on natural populations. These multidisciplinary projects represent training in state of the art genomic tools and techniques while experiencing both university and government laboratory environments. Graduate students will have access to technical support both in the field and laboratory through DFO staff and expertise and be part of the Marine Gene Probe Laboratory (Dal).

Qualifications: Honours degree or equivalent in biology (for a MSc position) and a MSc or equivalent (for a PhD position), and strong interests in evolutionary ecology, molecular ecology, and conservation biology.

Application: Please email (ibradbur@me.com) (1) a letter describing your interests in this position and your previous research experience, (2) a recent CV.

Ian Bradbury

Ian Bradbury <ibradbur@me.com>

## ImperialCollege London MosquitoEvolution

We seek to appoint a highly-motivated Post-Doctoral Research Associate to work on ERC and MRC funded research projects relating to the genetics & genomics of mosquito vectors of human disease, within the Department of Life Sciences at the South Kensington Campus of Imperial College London

You will join the laboratories of Dr Nikolai Windbichler and Dr Mara Lawniczak. Our research involves the use of cutting-edge molecular genetics and genomics to understand and ultimately control the mosquito vectors of human disease. Projects in our groups include trait mapping using genome wide association studies, developing synthetic gene networks, and the design and the development of selfish genetic elements.

The successful candidate will design and conduct experiments to investigate the role of candidate genes involved in vector-parasite interactions and in the genetic basis of hybrid incompatibilities between different mosquito species. You will be responsible for producing independent and original research, analysing results and submitting publications to refereed journals. You might also assist with some teaching and administration within the research group.

You must have a PhD (or equivalent) in Biology or be in the process of being awarded your PhD. Expertise in functional genetics and interest in vector genetics, a strong background in molecular biology and genetics, excellent laboratory practice, strong technical skills and a proven track record in the publication of research articles are essential. You must also have a good knowledge of computational methods for gene design and manipulation as well as biological databases. Prior experience working with flies or mosquitos would be advantageous.

You must have excellent verbal and written communication skills and be able to write clearly and succinctly for publication. You must be also have a creative approach to resolve and overcome scientific problems, the ability to develop and apply new concepts and prioritise your work in response to deadlines. The ability to conduct a detailed review of recent literature and to organise your work with minimal supervision are essential.

This is a full time post available for up to two years in the first instance. Salary £32,750 - £41,540 per annum

For informal enquiries please contact us at n.windbichler@imperial.ac.uk m.lawniczak@imperial.ac.uk

"Lawniczak, Mara K N" <m.lawniczak@imperial.ac.uk>

## ImperialCollege London VertebrateEvoDevo

Hello,

A post-doctoral position is available in my lab. A brief description is as follows:

Research background

Vertebrates differ in a wide range of traits, including dramatic differences in their skeletons. The objective of the newly established Evolution of Gene Regulation Group headed by Dr Vahan Indjeian at the MRC Clinical Sciences Centre, Imperial College London, is to uncover the genetic basis of vertebrate traits. The group asks what genes regulate evolutionary changes in morphology? What are the modifications in those genes? Are the same genes used when similar traits evolve in many species? We use a combination of tools, including comparative genomics and three-spine stickleback and mouse experimental models to answer these questions. For more information about our research, please visit http://www.csc.mrc.ac.uk/-Research/Groups/EPI/EGR/ . Available Projects

- To identify and characterise molecular events underpinning adaptive traits in natural stickleback populations.

- To identify and characterise cis-regulatory changes in the human lineage that may explain human-specific traits using mouse models.

- To identify and characterise the genetic basis of repeated evolution of similar traits in many vertebrates.

Job Summary

This post provides an opportunity for a highly motivated individual to participate in a project to investigate the mechanisms and regulation of vertebrate development using three-spine sticklebacks and/or mice as models.

Full Job Description and How to Apply:

Please follow this link for full information about the position and the application submission website:

http://www.topcareer.jobs/Vacancy/-irc147093_4458.aspx The closing date for applications is 29 June. Please submit your CV along with a brief cover letter describing scientific interests and names and contacts of three scientific references, when saving your documents please include IRC147093 in the file name. Only online applications will be accepted at the link provided above.

Thanks very much!

Best regards, Vahan

Vahan Indjeian, PhD Head of Evolution of Gene Regulation Group MRC Clinical Sciences Centre - Imperial College London Du Cane Road, London W12 0NN tel. (+44) 020 8383 8241 vahan.indjeian@imperial.ac.uk http://-www.csc.mrc.ac.uk/Research/Groups/EPI/EGR/ "Indjeian, Vahan" <vahan.indjeian@csc.mrc.ac.uk>

## KansasStateU EcoGenomics

POSTDOC IN ECOLOGICAL/PHYSIOLOGICAL GENOMICS

I am seeking a postdoctoral researcher to work on some combination of laboratory, field, and bioinformatics projects related to adaptation genomics, with an emphasis on thermal and seasonal ecology. 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/). Some portion of the work to be performed will include NSF-funded research on the genetic and physiological modularity of evolving life history components in the apple maggot fly, a model system for rapid adaptation and sympatric speciation. This project is an ongoing collaboration with Jeff Feder at Notre Dame and Dan Hahn at the University of Florida, and opportunities for cross-disciplinary training in these labs may also be available. The postdoc will also have the opportunity to perform independent research according to his or her own interests and specific training.

Position: Research Associate (Postdoctoral researcher)

Location: Department of Entomology, Kansas State University,

Manhattan, KS 66506-4004.

Appointment: 12-month, full-time (40 hours/week), term, non-tenure track position.

Annual renewal contingent on satisfactory performance and availability of

funding.

Salary: $35,000 to $42,000/year (negotiable based on experience) plus benefits

Starting Date: August 17, 2014 (earliest: starting date is flexible)

Responsibilities: Primary responsibilities include DNA and RNA library preparation, animal rearing and experimental design, and bioinformatics and statistical analysis to support research on the genomic variation associated with rapid life history evolution in insects. The successful candidate will work independently, effectively manage graduate and undergraduate students, perform field collections when necessary, coordinate with collaborators at domestic and foreign institutions, and communicate results at international conferences.

Qualifications: Ph.D in Biology, Entomology, or a closely related field with a strong background in evolutionary biology, ecology, environmental physiology, or genomics. A background in the application of statistical models (e.g., glm, mixed models, multivariate analysis) is required, and experience with Linux command line environments and scripting languages (R, python, perl) is strongly preferred. Candidate must also demonstrate evidence of successful communication of results through published manuscripts, conference presentations, or related activities.

Applications: Please submit a cover letter including research interests, curriculum vitae, and contact information, including e-mail addresses of at least three references by email to Evelyn Kennedy (ekennedy@ksu.edu). Screening of applications begin August 5, 2014 and continue until a suitable candidate is found.

Contact person for specific information regarding the position:

Dr. Gregory Ragland Department of Entomology Kansas State University 123 Waters Hall Manhattan, KS 66506-4004 Email: gragland@ksu.edu

Kansas State University is an AA/EOE employer of individuals with disabilities and protected veterans; and encourages diversity among its employees. Background check is required.

Gregory Ragland <gragland@ksu.edu>

## KunmingInst EvolutionaryEcol

A postdoc position is available based at the Kunming Institute of Zoology, Peoples Republic of China for two years starting immediately. The position is for two years and will be funded by a National Science Foundation of China (NSFC) research grant to Drs. Rui Wu Wang (Kunming Institute of Zoology (KIZ)) and Derek Dunn (Northwest University, Xian). The work will involve extensive fieldwork at the Xishuanbanna Tropical Botanic Gardens (XTBG), Menglun, Yunnan Province, where the successful candidate will be based.

The successful candidate will use stable isotope analysis to identify the trophic relationships between species in a fig wasp community, and will subsequently measure the selective strength each species has on each mutualist in a fig tree-fig wasp mutualism. Ideal candidates will have a Ph.D. in evolutionary ecology, experience of independent field work involving small insects and be able to provide evidence of publishing their work in peer reviewed journals. Experience in chemical ecology and the formal statistical quantification of natural selection would be an advantage.

Pay will be up to 10, 000 yuan per month including various allowances. If required, visas enabling the successful candidate to work in China will be arranged by KIZ. Interested candidates are reminded that the costs of living in China, especially outside of major cities, are low.

Interested parties are requested to send 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

Derek Dunn <dwdunn@BTINTERNET.COM>

## LavalU EvolutionaryCellBiology

Postdoctoral position in Evolutionary Cell Biology at Laval University:

Project title: Evolution of crosstalk, epistasis and pleiotropy in signalling networks

A postdoctoral position (2 years, up to 4) is available in the Landry Laboratory at Laval University (http://-landrylab.ibis.ulaval.ca). The candidate will work on a project funded by the Canadian Institutes of Health Research (CIHR) that aims at understanding the molecular and evolutionary mechanisms of crosstalk and signal integration in signalling networks. The Landry laboratory is a very dynamic, international and interdisciplinary research group with broad interests in systems biology, molecular evolution, bioinformatics and ecological genomics. The applicants should have a strong background in molecular biology, biochemistry, or proteomics with interest for and/or basic skills in bioinformatics (Perl/Python/R). The projects are mainly experimental but candidates with strong computational backgrounds who are willing to learn and perform experimental research are encouraged to apply. Previous work in yeast genetics and genomics would be an asset.

Laval University is one of the most important research universities in Canada and is located in Quebec City, a lively city with a vibrant culture that offers an exceptional quality of life.

Interested applicants should send a CV, a list of publications, a statement of interest (1 page) and the name of three referees in a single PDF file to Christian.landry@bio.ulaval.ca. Candidates should also include a low-resolution copy of official academic transcripts. The positions will remain available until filled. Starting dates could be between October 2014 and April 2015 (flexible).

Christian Landry, PhD Associate Professor FRQS Junior Investigator Department of Biology Institute for Integrative and Systems Biology/PROTEO Room 3106, Pavillon Charles-Eugene-Marchand 1030, Avenue de la Medecine Laval University Quebec (Quebec) G1V 0A6 Canada

http://landrylab.ibis.ulaval.ca/ Phone: 418-656-3954 Fax: 418 656-7176

Christian Landry <Christian.Landry@bio.ulaval.ca>

## Leipzig IntegrativeBiodiversity

Position: Postdoctoral Research Fellow in Integrative Biodiversity

We offer a one-year Postdoctoral contract associated to the sDiv working group "Unifying marine and terrestrial biodiversity at the interplay of macroecology, macrophysiology and macroevolution" (sWEEP) to be held at Synthesis Centre for Biodiversity Sciences - sDiv (www.idid.de/sdiv), a unit of the German Centre for Integrative Biodiversity Research (iDiv) in Leipzig (Germany) from the 21st to the 24th of October 2014. The position will involve participating in the meeting, managing data and coordinate and lead the writing of papers that will be outlined during the meeting. The postdoc will be based in the iDiv premises in Leipzig and would start preferably in October 2014. Salary and benefits are according to a public service position in Germany (TV-L 13).

The successful candidate is expected to be highly motivated and have excellent programming skills and experience in managing large biodiversity databases (spatial and phylogenetic). The Postdoc is expected to have a solid publication record and be familiar with the fields of macroecology, macroevolution and macrophysiology. A strong background in GIS, advanced technical skills in R and Python, and experience with software for phylogenetic inference are preferred. Knowledge of other management systems to deal with large databases (such as e.g. MapReduce or postgreSQL) would be a plus.

Review of applications will commence immediately. A decision is anticipated to be made before the 7th July 2014, but applications will be reviewed until the position is filled.

To apply: email a cover letter, CV and the names of two referees to miguel.olalla@urjc.es and imorales@uevora.pt

Ignacio Morales-Castilla <imorales@uevora.pt>

## Lyon-France Bioinformatics-Genomics

POSTDOC POSITION IN BIOINFORMATICS / COMPARATIVE GENOMICS (Lyon, France)

A 18 months post-doc position is available in the Department of Evolutionary Genetics and Genomics of the 'Biometry and Evolutionary Biology' laboratory (LBBE, CNRS/University Lyon I), France. Research themes in the lab are focused on multiscale evolutionary questions (from molecules to communities), with strong emphasis on modeling and computer science (http://lbbe.univ-lyon1.fr/?lang=en). This double angle results in a synergy between methodological developments and biological questions.

The post-doc will work with Pr Céline Brochier-Armanet (http://www.frangun.org/) in the 'Bioinformatics and Evolutionary Genomics' team. The proposed project is part of a large study combining in silico and wet experimental work focused on the biosynthesis of atypical lipids in Bacteria. The candidate will play a key role in this project in conducting comparative genomics and molecular phylogenetic investigations aiming at deciphering the biosynthesis pathways of these atypical lipids, as well as their origin and evolution in Bacteria. The post-doc position will start on November 1st, 2014, for a 18 months period. The position is funded by the French Research National Agency.

Candidates should have: - a PhD in biology/biochemistry or in bioinformatics - a good knowledge in bioinformatics and genomics - programming skills - a real interest/knowledge in evolutionary biology

To apply, please send to Pr Céline Brochier-Armanet (celine.brochier-armanet@univ-lyon1.fr): 1. An application letter including research interests and goals, and suitability for the proposed research project. 2. A full CV. 3. Names and contact information of two potential academic contacts.

– Pr Céline Brochier-Armanet Membre de l'Institut Universitaire de France

Université Lyon 1 Laboratoire de Biométrie et Biologie Evolutive UMR CNRS/Lyon 1 5558 43 Bd du 11 Novembre 1918 69622 Villeurbanne, France – Tel: 33 (0)4 26 23 44 76 Mail: celine.brochier-armanet@univ-lyon1.fr Web page: http://www.frangun.org celine.brochier-armanet@univ-lyon1.fr

## MassachusettsInstTech MolEvol

Massachusetts Institute of Technology.Molecular Evolution/Planetary Science.Postdoctoral Associate

Computational Biology Phylogenetics Microbial Evolution

The Fournier Lab within the Earth, Atmospheric, and Planetary Sciences Department at MIT is seeking qual-

ified candidates for the position of Postdoctoral Associate for a 1-year appointment with possible extension, to begin during the 2014-2015 academic year.

Ongoing research areas include microbial phylogenetics and phylometabolomics, development of molecular clock models and time calibration of microbial evolution across planetary timescales, horizontal gene transfer, ancestral sequence reconstruction, genomic paleontology, and co-evolution of microbial ecology and planetary processes.

Requirements: PhD with a strong background in bioinformatics, phylogenetics, statistics, and computer programming.

Qualified applicants are encourged to apply by email to Professor Gregory Fournier, g4nier@mit.edu.

Application should include Curriculum Vitae; name, email address and telephone number of three professional references; and a brief statement of research interest.

g4nier@mit.edu

## MaxPlanckInst Leipzig PopulationGenomics

Position in population genomics

We seek a postdoctoral researcher or a PhD student to fill a position in the Department of Evolutionary Genetics at the Max Planck Institute for Evolutionary Anthropology in Leipzig. The researcher will work on a collaborative project focusing on the analysis of genome-wide diversity data to assess the patterns of local adaptation in populations of humans and other primates. The project will take advantage of several new genome-wide datasets from primate populations and species.

We are seeking a creative and highly motivated individual with prime interest in population genomics. Candidates should have a background in evolutionary genetics, population genetics, genomics, bioinformatics, computational biology, statistics, or related disciplines. The ideal candidate will have experience in at least one of the areas above, and a strong interest in the others. Previous work in population genetics/genomics (theoretical or analytical), experience with large-scale databases, and strong programming skills are a plus but not required.

The Department of Evolutionary Genetics in the Max Planck Institute for Evolutionary Anthropology is a lively, stimulating, and highly collaborative place at the front of primate evolutionary genomics. The Institute is very international and English speaking. It is located in Leipzig, a nice and affordable city of 500,000 habitants that is the capital and major cultural center of German Saxony (two hours away from Berlin and three from Prague).

To apply send, in PDF format, a cover letter, your CV, and the contact information of at least 2 potential referees to Aida Andrés at aida_andres@eva.mpg.de or to Sergi Castellano sergi_castellano@eva.mpg.de. Informal inquiries can be sent to the same addresses.

For further information visit the webpages of our groups:

http://www.eva.mpg.de/genetics/genetic-diversity-and-selection/overview.html http://-www.eva.mpg.de/genetics/selenium-and-genome-annotation/overview.html aida

Aida Andrés, PhD Group Leader, Max Planck Institute for Evolutionary Anthropology

Deutscher Platz 6 04103 Leipzig, Germany Phone: +49 341 3550 507 Fax: +49 341 3550 555 aida.andres@eva.mpg.de http://www.eva.mpg.de/-genetics/genetic-diversity-and-selection/overview.html Aida Andres <aida_andres@eva.mpg.de>

## Montpellier 2 WildQuantGenet EcolGenomics

Dear colleagues,

I have two 2-year postdoctoral positions available just now.

The first is an ANR (Agence Nationale de la Recherche) funded postdoc in Wild Quantitative Genetics, and will be based both in Montpellier (in collaboration with myself, Anne Charmantier) and Paris (in collaboration with Céline Teplitsky). See details at: http://annecharmantier.free.fr/images/anne/pdf/-anr funded postdoc in montpellier-paris.pdf The second is an ERC funded postdoc in Ecological Genomics based in Montpellier. See details at: http:/-/annecharmantier.free.fr/images/anne/pdf/erc funded postdoc in montpellier.pdf

Both postdocs are embedded in the long term evolu-

tionary ecology tit program we have in Montpellier. Best regards, Anne

Dr Anne Charmantier CNRS, CEFE UMR 5175 1919, route de Mende F34293 Montpellier Cedex 5 France

http://annecharmantier.free.fr

Tel : +33 4 67 61 32 11 +33 4 67 61 32 11 Fax : +33 4 67 61 33 36 Email: anne.charmantier@cefe.cnrs.fr

Anne CHARMANTIER <Anne.CHARMANTIER@cefe.cnrs.fr>

## NHM Copenhagen eDNA metabarcoding

Postdoc on e-DNA metabarcoding

The Natural History Museum of Denmark is offering a 2-year postdoctoral position on e-DNA metabarcoding commencing October 1st 2014 or soon thereafter in the Rønsted group, Section for Evolutionary Genomics. The application deadline is August 1st 2014.

A major outstanding question in natural science is the influence of the environment on the expression of chemical defence compounds. With the advent of high throughput Next Generation Sequencing data, it is now possible to use eDNA Metabarcoding to provide an estimate of biodiversity in for example an environmental soil sample. These new promising approaches can potentially provide an easy, more accurate and relevant estimate of the biotic assemblages present in the local environment than traditional habitat description or environmental analysis focusing on morphology, physical and chemical parameters. The strategic aim of this postdoctoral research project is to develop a model for using eDNA Metabarcoding to express local biotic pressure and to use this model to test the influence of the biotic pressure on expression of plant chemical defence compounds. The position will include some fieldwork.

The successful candidate will become an integrated part of the highly international research group of Nina Rønsted and the Section of Evolutionary Genomics at the Natural History Museum of Denmark. The Rønsted group explores the evolution of plants and the correlation between phylogeny, biological interactions and natural products, to explain patterns and processes of diversity. The position will include collaboration with ongoing research projects in the group and benefit from association with the MedPlant ITN network, www.MedPlant.eu .The position is funded by a grant from the VILLUM FONDEN. The starting salary is currently up to DKK 403,682 including annual supplement (+ pension up to DKK 69,030 annual).

Qualifications and eligibility Applicants should hold a PhD degree in biology or another discipline of relevance for the research project. Experience with next generation sequencing, preferably with e-DNA metabarcoding, including both relevant labwork experience and bioinformatics, excellent English skills, and good interpersonal skills, is a requirement. The main criterion for selection will be the research potential of the applicant as reflected in publications, relevant research experience, and the letter of motivation.

At the time of recruitment, it is a requirement that the candidate has a maximum of 3 years PhD experience. Mobility is required and the position cannot be used to extend existing contracts or recruit researchers with a PhD degree from the University of Copenhagen, unless the candidate has worked at another institution for minimum a year.

Further information Inquiries about the position can be made to Associate Professor Nina Rønsted (E-mail:nronsted@snm.ku.dk). See also the homepage of the research group: http://snm.ku.dk/forskning/-sektioner/sektion_for_evolutionary_genomics/-phylogenetic_prediction/ and the section: http://snm.ku.dk/english/research/sections/-evolutionary_genomics/ Further information on the Department can be found at www.snm.ku.dk Application procedure The deadline for applications is 1. August 2014. Interviews will be held on 19. August 2014 in Copenhagen or over SKYPE. The application, in English, must be submitted electronically by clicking APPLY ONLINE on the link in the full posting found here: http://www.ku.dk/english/-available_positions/vip/ Nina Rønsted, PhD Natural History Museum of Denmark University of Copenhagen Sølvgade 83 DK-1307 Copenhagen E-mail: nronsted@snm.ku.dk http://snm.ku.dk/english/-research/projects/phylogenetic_prediction/ Coordinator of MedPlant ITN network. www.MedPlant.eu Nina Rønsted <nronsted@snm.ku.dk>

## NorthCarolinaStateU EvolGenomicsCichlids

NorthCarolinaStateU.EvolGenomicsCichlids

A postdoctoral position is available in the lab of Reade Roberts in the North Carolina State University Department of Biological Sciences (Raleigh, NC), starting Fall 2014. The overarching research aim of the Roberts Lab is to understand the genetic basis of adaptive evolution and developmental differences, using East African cichlid fishes as a comparative model system. Active projects focus on polygenic sex determination systems and dietary adaptation at the level of the gastrointestinal tract, and the successful candidate would be expected to contribute to these on-going research themes. Potential specific experiments under these themes are quite varied, but each should ultimately contribute to the identification of genes, genetic changes, and epistatic interactions modulating sex determination or gastrointestinal biology.

Research in the lab draws on a number of skill-sets, including genetic mapping, gene expression analysis, high-throughput sequencing, comparative genomics, bioinformatics, fieldwork, and evolutionary, developmental, and molecular biology. An ideal candidate will have demonstrated expertise spanning a few of these areas, and the motivation, creativity, and analytical skills to drive and develop their line of research. Candidates must have a PhD in an appropriate field and the willingness to work with laboratory animals.

The position is full-time for one year, with further extension subject to satisfactory performance in the first year.

Interested applicants should send a brief note (~1 page) describing previous research experience and their interests and goals in our lab, as well as a current CV including contact information for at least two references. Please send application materials or any questions regarding the position to robertslabncsu@gmail.com, preferably in pdf format. Applications will be considered on an on-going basis until the position is filled.

robertslabncsu@gmail.com

## Oxford UK EvolutionInfectiousDisease

Postdoctoral Researcher - Evolutionary and Computational Analysis of Infectious Disease (Phylodynamics)

Salary: Grade 7: UKP29,837 - UKP36,661 with a discretionary range to UKP40,046 p.a.

We seek an ambitious postdoctoral researcher with strong quantitative skills to undertake research at the interface of evolutionary biology, infectious disease, computational statistics, and genomics. Highly-motivated researchers with a background in a science other than biology are also eligible to apply. The position is available immediately and fixed-term for 3 years (36 months). The candidate will join a dynamic and award-winning research group under the supervision of Professor Oliver Pybus. Funding is available to support training, collaborative visits and conference attendance.

NOTE: This position is being advertised in parallel with a Senior Postdoctoral Researcher (Grade 8) position in the same group. Please read the selection criteria for both positions. If you wish to be considered for both positions please say so in your application.

Main responsibilities: - Undertake innovative research in the fields of virus evolution, epidemiology, statistical inference, genomics, population genetics, phylogenetics, quantitative immunology, or mathematical modelling. - Contribute and develop ideas for new research projects. - Participate in and lead the publication of research findings in international peer-reviewed journals and other publications.

Requirements: - A doctoral degree in a relevant field of biology; or a doctoral degree in another science (e.g. computer science, statistics, mathematics, physics, chemistry) with a strong interest in the research described here. - Strong analytical and quantitative skills and excellent problem- solving abilities. - Demonstrated ability to undertake high quality scientific research. - Excellent communication skills, including the ability to write for publication.

How to apply: For full details, go to http://bit.ly/-1s2gVl3 .Or go to http://www.recruit.ox.ac.uk and search for Vacancy ID 114057. Only applications made online before 12.00 midday on 18 August 2014 will be considered. Please upload a CV and supporting statement.

For further information, please contact Prof Oliver Pybus: oliver.pybus@zoo.ox.ac.uk

Oliver Pybus <oliver.pybus@zoo.ox.ac.uk>

## Oxford UK Senoir EvolutionInfectiousDisease

Senior Post-Doctoral Researcher - Evolutionary and

Computational Analysis of Infectious Disease

Salary: Grade 8: UKP37,756 - UKP45,053 with a discretionary range to UKP49,216 p.a.

We seek an accomplished postdoctoral researcher with a track record of excellence to undertake research at the interface of evolutionary biology, infectious disease, computational statistics, and genomics. Candidates are expected to have computer programming experience (see Criteria). Highly-motivated researchers with a background in a science other than biology are also eligible to apply. The position is available immediately and fixed-term for 3 years (36 months). The candidate will join a dynamic and award-winning research group under the supervision of Professor Oliver Pybus. Funding is available to support training, collaborative visits and conference attendance.

NOTE: This position is being advertised in parallel with a Postdoctoral Researcher (Grade 7) position in the same group. Please read the selection criteria for both positions. If you wish to be considered for both positions please say so in your application.

Main responsibilities: - Undertake innovative research in the fields of virus evolution, epidemiology, statistical inference, genomics, population genetics, phylogenetics, quantitative immunology, or mathematical modelling. - Develop and implement new computational and statistical methods. - Contribute and develop ideas for new research projects and share responsibility for shaping the research groups plans.

Requirements: - A doctoral degree in a relevant field of biology; or a doctoral degree in another science (e.g. computer science, statistics, mathematics, physics, chemistry) with a strong interest in the research described here. Post-qualification research experience. - Experience of and demonstrated competence in scientific computing using at least one programming language (C, C++, JAVA, R preferred).

How to apply: For full details, go to http://bit.ly/-1ne7GXm. Or go to http://www.recruit.ox.ac.uk and search for Vacancy ID 114048. Only applications made online before midday on 18 August 2014 will be considered. Please upload a CV and supporting statement.

For further information, please contact Prof Oliver Pybus: oliver.pybus@zoo.ox.ac.uk

Oliver Pybus <oliver.pybus@zoo.ox.ac.uk>

## QuebecCity NRCan BudwormPopulationGenomics

POSTDOCTORAL POSITION IN BUDWORM POPULATION GENOMICS

The Canadian Forest Service, Natural Resources Canada, is currently seeking a motivated and highly qualified postdoctoral fellow to conduct research on spruce budworm population genomics in Michel Cusson's lab. The candidate will be expected (i) to develop a linkage map using existing genotyping-by-sequencing (GBS) data and (ii) to conduct a population genomics study examining differences in budworm and host tree genetic structures at the continental scale, building on existing data and material collections. The linkage map will help refine an existing assembly of the budworm genome while the insect/host plant population genetics study will help understand the role of the host tree in shaping budworm population structure.

The candidate is expected to have experience and skills in genetics and population genetics, to have a solid background in the development of linkage maps and to be familiar with the various informatics tools and pipelines required for the processing and analysis of GBS data. Experience in forest entomology and a good knowledge of budworm biology and ecology are an asset. The candidate should have good oral communication skills in either English or French, and above-average writing skills in English.

To apply please send a current CV, contact information for three references, a writing sample (e.g., a published paper), and a cover letter outlining your research experience and interests to Dr. Michel Cusson (michel.cusson@nrcan-rncan.gc.ca) before July 30th, 2014.

All applicants are expected to have a PhD at the time the contract will begin in October 2014.

Michel.Cusson@RNCan-NRCan.gc.ca

## ReedCollege Portland Bioinformatics

***Bioinformatics Post-doctoral Researcher Position***

A post-doc position (initial contract for 1 year, with the possibility of renewals annually based on performance) co-supervised by Todd Schlenke and Sarah Schaack is available at Reed College in Portland, OR.

We are searching for a post-doc who will be involved in several arthropod genomics projects going on in each of our labs. In the Schlenke lab, the focus will be on sequencing wasp genomes and using the data to study venom gene family evolution and horizontal transfer between parasitoids and their Drosophillid hosts. In the Schaack lab, projects will involve analyzing recently generated whole genome sequence and transcriptome data for a lepidopteran crop pest and other arthropods, as well as NGS data generated from long-term mutation-accumulation experiments using cladocerans. More information on the specific projects, as well as opportunities for independent projects, collaborative work, participation in outreach activities, and travel will be shared with shortlisted candidates.

Requirements: Experience with manipulating and analyzing NGS sequence data, programming competency, and relevant computational skills. The successful candidate will also show evidence of excellent oral and written communication skills. Familiarity with arthropods is beneficial, but not required.

Reed is a highly rigorous undergraduate institution with a strong research emphasis, which offers a unique training environment for post-docs. Features include close collaboration with the PIs, the opportunity to work with talented undergraduates, and the chance to network with other post-docs in the department and with biologists throughout Portland and the region. The scientific and intellectual environment at Reed is stimulating and provides a number of opportunities for interactions (including an excellent weekly seminar series, journal clubs, and discussion groups).

Start date is flexible. Salary will be based on the NIH post-doc pay scale and will be commensurate with experience. To apply, submit a cover letter detailing your research interests, a CV, and contact information for 3 references to *reedSCHpostdoc@gmail.com <reed_SCH_post_doc@gmail.com>*. To receive full consideration, send materials on or before Aug 10, 2014, however applicants will be considered until the position is filled.

Reed College is an Equal Opportunity Employer. Candidates from underrepresented groups are strongly encouraged to apply.

schaackmobile@gmail.com

## SREL UGeorgia AmphibianGenomics

The Savannah River Ecology Lab (SREL) at the University of Georgia is soliciting applications for a Postdoctoral Research Associate in Ecological and Evolutionary Genomics, with a particular emphasis on amphibian adaptation to stressors. At this point there are three broad research avenues within which the accepted candidate could develop her/his specific project. One would involve investigations into variation within and among amphibian species in disease susceptibility using a genomics approach. The second would follow up on current studies examining variation in tolerance to contaminant stressors and local adaptation to heavy metals. The third would evaluate landscape genetic patterns of amphibians (multiple species) on the Savannah River Site (SRS) with an emphasis on how areas of contamination may impact gene flow. A majority of the samples for this third project have already been collected and we would likely use a 2bRAD-seq approach. Numerous opportunities exist to assist with other ongoing studies at SREL and to initiate additional side projects.

Qualifications: A Ph.D. in ecology, evolution or related field is required. Preference will be given to applicants possessing a strong molecular background, experience with genomics, and preferably experience with bioinformatics analysis. The postdoc will assist with training graduate and undergraduate students. The successful applicant is expected to demonstrate commitment to timely completion of deliverables, publication of results in peer-reviewed outlets, and presentation of results at scientific conferences. Applications will be reviewed starting August 11th and will continue until a suitable candidate has been identified. Current funding is available for 1 year, with the possibility of extension pending renewal of funding and satisfactory performance. Salary will be $35,000 per year plus benefits.

To apply, please send a 1) cover letter summarizing your qualifications for and interest in the position, 2) a CV, 3) scanned copies of transcripts, and 4) names and contact information for three references to Stacey Lance: lance@srel.uga.edu.

lancestacey@gmail.com

## Taipei Damselfly Speciation

Postdoc Position in Genomics of Adaptation and Speciation (Taipei,Taiwan)

A three-year postdoc is available immediately for an innovative andmotivated person to work on the genomics of adaptation and speciation in endemic Psolodesmus damselflies of Taiwan and Yaeyama islands.

Project:

The position is funded by a MOST (Ministry of Science &Technology, Taiwan) grant focused on testinghypotheses about how genomes evolve during theprocess of population adaptation and species formation. One of main objectivesis to identify the role of natural selection in generating the patterns of phenotypicand genomic divergence between habitat- associated populations and species ofdamselflies. The project is to combine field translocation experiments andwhole genome sequencing to measure natural selection at the population andgenomic level.

Requirement:

1. The postdoctoral fellow will be responsible for leadinghypothesis- driven field experiment, laboratory preparation, and analyses of genomic- scaleDNA sequence data sets.

2. The successful applicant must have demonstrated expertise inpopulation genetics, phylogenetics, genomics, and/or computational statistics.

3. Preference will be given to candidates with:

(1) Experience of high performance computing, (2) The ability todevelop and apply statistical or computational methods to solve problems, (3) Expertisein research on speciation, theoretical models of evolution, or trait divergence.

Application:

To apply, please contact Chung-Ping Lin by email (treehopper@ntnu.edu.tw),and attach a single PDF file containing: 1) a cover letter, 2) a CV, 3) a brief2-page statement of research interests, and how your skills can contribute toproject objectives, and 4) contact information for three references.

Salary & Deadline:

The position will begin August 1st of 2014. Funding isavailable for at least 1 year and up to 3 years, pending performance.

A monthly post-doc salary of about $55,000 NTD ($1,900 USD) will beoffered, including retirement plan, health benefits, and a year-ending bonus of1.5- month salary.

The position will remain open until a suitable candidate is found.

More information:

The lab: http://web.ntnu.edu.tw/ ~ treehopper/ Department of Life Science: http://-www.biol.ntnu.edu.tw/ National Taiwan NormalUniversity: http://www2.ntnu.edu.tw/en/index.php

treehopper <treehopper@ntnu.edu.tw>

## TexasAMU ClimateAdaptation

Drs. Derek Hogan and Chris Bird at Texas A&M University - Corpus Christi are seeking a post-doc to help lead quantitative analyses of climate change impact, data gap analysis, and management prioritization for the Marianas Trench, Rose Atoll (Samoa), Pacific Remote Islands (Line Islands) Marine National Monuments.

The position is part of an NOAA-funded project on assessing the impact of climate change on select Marine National Monuments and involves a close collaboration with Dr. Kim Selkoe at UC Santa Barbara.

The post-doc will help lead spatial analyses to model the vulnerability of marine ecosystems and the intensity of climate change threats in order to compute and map impacts. In addition, the project will involve using expert elicitation surveys to quantify professional opinion about the relative importance of many categories of climate change stressors in relation to different ecosystems and species of particular concern. This work will be conducted in close collaboration with NOAA, NGOs, local stakeholders, and will help to define near- and long-term agendas for climate change remediation efforts in the tropics. The position will offer considerable latitude to devise and pursue additional analyses to address the underlying causes, future prospects, and prioritization of data gaps and management actions

Desired qualifications include: - expertise in marine biodiversity and biogeography - experience conducting

large-scale spatial analysis and conservation prioritization models - strong communication skills to coordinate efforts with project partners - a strong record of publication based on independent thinking - a collaborative approach to science but ability to work on tasks independently

The position will begin ASAP, and funding is available for at least 1 year, pending performance. A competitive post-doc salary will be offered, including retirement plan and health benefits.

The position will be based at Texas A&M University - Corpus Christi and will involve some travel to UC Santa Barbara.

To apply, please email (subject line: MNM Climate Change PostDoc) a curriculum vitae, PhD transcripts (unofficial is fine), three reprints, and contact information for three references to chris.bird@tamucc.edu and james.hogan@tamucc.edu

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

"Bird, Chris" <Chris.Bird@tamucc.edu>

## TexasAMU MolecularPopulationGenetics

Postdoctoral Research Scientist - Molecular Population Genetics/Ecology

Location: A new, collaborative, state-of-the-art facility established for molecular-genetic studies of exploited marine organisms, located at the Harte Research Institute at Texas A&M University-Corpus Christi, Corpus Christi, Texas 78412-5869.

Responsibilities: Position responsibilities involve assay and analysis of nuclear-encoded single nucleotide polymorphisms (SNPs) for projects involving population genetics and molecular ecology, primarily of exploited marine fishes. Central responsibilities include data acquisition and analysis, preparation of reports and publications, and positive interaction with other members of the laboratory.

Qualifications: Dissertation or postdoctoral work in molecular population genetics and/or molecular ecology is required, as is documented experience with microsatellite and mtDNA data acquisition and analysis. Documented experience with major software programs used in analysis of molecular (DNA) data for population genetics/molecular ecology also is required. Individuals with documented experience in analysis of next-generation-sequencing data, primarily RADseq, RNAseq, or genome assembly, will be given highest priority. Applicants should be ambitious, able to work collaboratively with other group members, and capable of taking initiative and assuming responsibility.

Salary: Salary range is from $40,000/year and will depend on experience. Benefits include health care and retirement. Position is for 12-24 months.

Closing date: Position will remain open until filled.

Contact: Send curriculum vitae, description of research experience/interests, and names, addresses, phone numbers, and e-mail address of three references to Dr. John R. Gold and Dr. David S. Portnoy at goldfish@tamucc.edu and David.Portnoy@tamucc.edu, respectively. International applicants will be considered if they hold the correct visa(s). The Harte Research Institute and Texas A&M University-Corpus Christi are Equal Opportunity/Affirmative Action/Equal Access Employers.

John.Gold@tamucc.edu

## UArizona EcoEvolutionaryTheory ClonalInterference

_Postdoc position in eco-evolutionary theory _

A postdoc position is available to work with PI Joanna Masel (http://eebweb.arizona.edu/faculty/masel) at the University of Arizona in Tucson. 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 postdoc 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 is part of a broader effort to integrate the ecological density-dependence terms r and K with the classical population genetics fitness term of w, as part of an eco-evo theoretical synthesis: see http://arxiv.org/-abs/1407.1024 for the conceptual basis. Side projects applying the model to experimental evolution and to

other ecological and evolutionary theory are encouraged. 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 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. Contact Joanna Masel at masel@u.arizona.edu for more information and to apply. The position is available immediately and renewable over multiple years.

masel@email.arizona.edu

## UArizona EvolvabilityTheory

_Postdoc position in the theory of molecular errors and evolvability_

A postdoc position is available to work with Joanna Masel (http://eebweb.arizona.edu/faculty/masel) at the University of Arizona in Tucson. 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.

All molecular processes, from transcription to protein interactions, are subject to errors. We are interested in exploring the evolutionary consequences of this simple fact. In previous work (Rajon & Masel 2011 PNAS), we found that the evolution of error rates is bistable. One attractor represents a global proofreading solution that avoids making errors at many loci at once, the other a local robustness solution, where errors happen at high rates but the consequences of each error have evolved, one locus at a time, to be benign. Populations that evolved the local solution were much more evolvable, with selection acting on the consequences of errors acting as a playground to explore and prescreen possible future mutations.

We are looking for a postdoc to extend this model to the case where there is variation in expression levels among loci. In this case, preliminary results suggest that bistability no longer occurs. The postdoc will study evolvability phenomena in this case, and also investigate controversial hypotheses surrounding the adaptive evolution of evolvability.

A strong quantitative background, good programming skills, and previous modeling experience are all required. A background in evolutionary theory is strongly preferred. Some interest in the molecular biology of transcription, translation, protein folding and binding, and the errors in each of these processes is an advantage. The position is available immediately, and is renewable, with funding secured for at least two years.

Contact Joanna Masel at masel@u.arizona.edu for more information and/or to apply.

masel@email.arizona.edu

## UArizona Tucson ResAssoc EvolBiol

Postdoctoral Positions Available: Research Associate Arizona Research Laboratories, University of Arizona, Tucson, AZ NIH-Training Program: Postdoctoral Excellence in Research and Teaching (PERT)

The Postdoctoral Excellence in Research and Teaching (PERT) Program is a comprehensive program which offers up to three years of support to outstanding candidates seeking advanced postdoctoral research training, teacher training and student mentorship opportunities in preparation for an academic career in biomedical and life sciences. Funded by NIGMS through an IRACDA (Institutional Research and Academic Career Development Award) training grant, the PERT program also fosters ties between research-intensive institutions and minority-serving institutions.

PERT trainees may select from over thirty-six faculty research mentors at the University of Arizona, representing a broad range of disciplines in biomedicine, bioengineering, genetics, biochemistry, neurobiology, evolutionary biology, molecular/cellular biology, physiology and behavior. The program stresses the use of model organisms for biomedical and life sciences research. The program is administered through the Arizona Research Laboratories Center for Insect Science and is partnered with a Minority Serving Institution, Pima Community College, (http://www.pima.edu/program/biology/ . Starting salary is based on the NIH NRSA scale. An annual allowance for research supplies and travel is also included. Positions are dependent upon continued funding. Additional information about the Center for Insect Science and the PERT program is available at http://cis.arl.arizona.edu/PERT . Qualifi-

cations: Applicants must have, as of the beginning date of the appointment, a Ph.D. in a related field from an accredited institution and must be U.S. citizens, permanent residents, or non-citizen nationals. Applicants should have no more than two previous years of postdoctoral experience at the time of application.

Application: All applicants must apply electronically through the University of Arizona's Career Track website at: https://www.uacareertrack.com. The job number is 55765. Deadline for receipt of applications is 8:00am, Tuesday, September 2, 2014.

All applications are to include: - a letter of interest with a statement explaining how the PERT program will assist the applicant in his/her research and career goals. - a CV - a three to six page research proposal developed with the intended PERT faculty research mentor describing the project to be undertaken during the training period - three letters of reference - a letter of support from the intended faculty research mentor

Potential applicants are encouraged to contact relevant Program Faculty as soon as possible to discuss research projects and the application process. Original letters of reference and the letter from the proposed faculty research mentor should be mailed to: PERT, Center for Insect Science, 1007 E. Lowell Street, University of Arizona, Tucson, AZ 85721-0106. Emailed letters will be accepted only if accompanied by an electronic signature. The letter of interest, CV and research proposal must be submitted online through the UA Career Track website listed above. 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 and backgrounds. Please contact Teresa Kudrna for more information, tkudrna@email.arizona.edu, 520-621-9310.

Teresa A. Kudrna Program Coordinator, Sr. Center for Insect Science & PERT Program University of Arizona 1007 E. Lowell Street, Room 227 Tucson, AZ 85721 520-621-9310 Fax: 520-621-2590 http://-cis.arl.arizona.edu "Kudrna, Teresa A - (tkudrna)" <tkudrna@email.arizona.edu>

## UCalifornia SantaBarbara ModelingGeneNetworkEvolution

The Proulx/Hespanha group at UC Santa Barbara is searching for a postdoctoral scientist to work on modeling the evolution and dynamics of dynamical networks. The proposed work may involve modeling gene transcriptional networks that respond to external stimulus, signal transduction networks, or the combination of cellular control and cell physiology. The goal is to understand both the mechanistic basis of dynamic cellular responses and the evolution of control networks. We take a joint approach drawing from expertise on engineering principles and optimal control theory based in the Hespanha lab (http://www.ece.ucsb.edu/~hespanha/) and on principles of evolutionary theory based in the Proulx lab (https://labs.eemb.ucsb.edu/proulx/steve/-). Opportunities also exist for the postdoc to study gene network evolution in yeast.

Applicants should have a strong quantitative background and either experience with evolutionary theory or with control theory (including optimal control). The appointment is for 1 year with a start date by September, 2014. Submit applications including a cover letter, CV, description of research experience and interests, brief description of background computational or mathematical modeling, and names and addresses of three references to stephen.proulx@gmail.com with the words 'network evolution' in the subject.

Stephen Proulx Associate Professor Ecology, Evolution, and Marine Biology UC Santa Barbara proulx@lifesci.ucsb.edu

stephen.proulx@gmail.com

## UCL UNamur Belgium BdelloidRotifers EvolGenomics

_*Postdoctoral position in Evolutionary Genomics and Molecular and Cellular biology *___*(UCL - UNamur, Belgium)*_

**

A 3-year postdoctoral research position is available to investigate the */Molecular and cellular mechanisms of hyper-resistance to stress in the ameiotic bdelloid rotifer /Adineta vaga. *The research will be conducted in the group of Biochemistry, Biophysics and Molecular Genetics of Micro-organisms at the Catholic University of Louvain (UCL, Belgium) to take part in a collaborative ARC research program with the Research Units in Environmental and Evolutionary Biology (URBE) and in Cellular Biology (URBC) at the University of Namur

(UNamur, Belgium).

This postdoc position is embedded within the research project entitled: /Asexuality and 'immortality', bdelloid rotifers as an evolutionary 'scandal' and a model system in biology. /This project is funded during 5 years and will start in October 2014.

* PIs of the project:*

*Prof. Bernard Hallet (ISV, UCL), Prof. Karine Van Doninck (URBE, UNamur), *Dr. Florence Debacq-Chainiaux (URBC, UNamur)**

The involved consortium brings together experts in the fields of evolutionary biology and genomics of bdelloid rotifers (K. Van Doninck, URBE, UNamur), DNA recombination and genome plasticity (B. Hallet, ISV, UC) and oxidative stress response (F. Debacq-Chainiaux, URBC, UNamur). The appointed candidate will be expected to share its research time on both sites under the supervision of the three PIs of the consortium. The universities are at a distance of 35km from each other and easily connected by train.

*Project:*

Bdelloid rotifers are micro-organisms (animals) that have recently attracted much interest in the scientific community because of their ancient asexuality and their extreme resistance to stress, such as desiccation and high doses of ionizing radiation. They are capable to survive when their genome is shattered into small fragments and repair the DNA double strands breaks (DSBs) *(see Hespeels et al., JEB 2014)*. Repeated cycles of chromosomal repair are thought to promote allelic recombination and gene conversion in the absence of meiosis. Moreover desiccation and the induced DNA DSBs are also thought to provide a unique opportunity to acquire horizontally transferred genes, thereby contributing to the adaptive success of these organisms.

In this project, the mechanisms that make bdelloid rotifers unique in terms of evolutionary strategy and hyper-resistance to stress will be investigated based on genomic data recently obtained by our consortium for the bdelloid rotifer /Adineta vaga/ headed by Prof. Karine Van Doninck (*see Flot et al, 2013, Nature 500:453-7*). Genomic approaches will be used to study the dynamics of /A. vaga/ genome during cycles of desiccation/rehydration/radiationand to decipher the genetic expression program that governs the different stages of its life-style. Molecular and cellular approaches will be developed to unveil and characterize the mechanisms that allow /A. vaga/ to repair its shattered chromosomes and generate genetic diversity,as well as its dependence with respect to oxidative stress response. The ultimate prospect of the project is to establish bdelloid rotifers as a new model system for the understanding of fundamental biological processes such as DNA repair, cell survival and senescence.

*Contacts:*

*Prof. Bernard Hallet, **Bernard.hallet@uclouvain.be

Université Catholique de Louvain. Institut des Sciences de la Vie (ISV)

http://www.uclouvain.be/en-isv.html *Prof. Karine Van Doninck, **karine.vandoninck@unamur.be

University of Namur, Laboartory of Evolutionary Genetics and Ecology (http://www.lege-unamur.be/)

*Qualifications:*

We are looking for a post-doc with a strong interest and background in evolutionary genomics and molecular and cell biology. Expertise in the field of DNA repair and recombination, chromosome structure and dynamics, and/or genomics (NGS approach) is a valuable asset. Additional experience in cell biology techniques like DNA transfection, immuno-localization, fluorescence hybridization and microscopy will be a benefit. Priority will be given to candidates with a proven track record (with several publications as a first author) who will express their motivation in developing their autonomy and their interest for new challenges.

*Application://*

The position is available to both foreign nationals and Belgian citizens under 'international mobility' status, meaning that they may not have resided in Belgium for more than 12 months over the past 3 years preceding the appointment. The duration is for 2 years (with a possible 1-year renewal) starting on the *1^st of October 2014. *The closing date for applications is *August 31^st 2014.*

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## UConnecticut EvolutionPelargonium

University of Connecticut - University Postdoctoral Fellow

The Schlichting lab in the Department of Ecology & Evolutionary Biology at the University of Connecticut invites applications for a University Postdoctoral Fellow on an NSF-funded project investigating an evolutionary radiation in the plant genus Pelargonium.

The successful applicant will be part of a large team that is investigating functional trait evolution in the context of the characteristics of communities in which these species occur (http://tinyurl.com/3jtz759 ). The successful applicant will be responsible for phylogenetic reconstructions of morphological traits and trait correlations and will collaborate on other projects related to evolution of phenotypes and plasticity in Pelargonium.

Short term travel to the Greater Cape Floristic Region of South Africa will be required.

Minimum Qualifications: Ph.D. in biology or a closely related field; expertise in phylogenetic comparative methods and implementation of packages investigating character state evolution (e.g., ape, GEIGER, phytools, picante); and expertise in the statistical package R.

Preferred Qualifications: Publications in phylogenetic comparative methods. Experience with Geographic Information Systems (GIS).

This position is funded for one year. Continuation of this position may be possible for an additional year if performance is satisfactory and funding is available. The position can start as soon as 1 October 2014.

Interested applicants should apply online using Husky Hire at www.jobs.uconn.edu. Applications should include a letter of interest, a brief statement (1-2 pages) summarizing previous scientific work and experience, a curriculum vitae, and the names and addresses of up to three individuals able to evaluate the applicants qualifications for the position. Review of applications will begin on September 15, 2014. Inquiries may be addressed to Carl Schlichting at: schlicht@uconn.edu.

Employment of the successful candidate will be contingent upon the successful completion of a pre-employment criminal background check.

The University of Connecticut is an EEO/AA employer.

"Schlichting, Carl" <schlicht@uconn.edu>

## UConnecticut PlantComparativeGenomics

A Postdoctoral Researcher position is being offered in the Department of Ecology and Evolutionary Biology at the University of Connecticut. The applicant will be a member of a research group interested in genome biology, integrative genomics, comparative genomics, and bioinformatics.

RESPONSIBILITIES:

- Perform scientific research as part of a collaborative project focused on the annotation, and analysis of three conifer genomes. - Apply computational approaches to analyze transcriptomes - Develop and apply comparative genomics methods across multiple gymnosperm species. - Participate in the characterization and study of novel gene families - Apply software tools to enable the extraction of information from large, complex genomes

REQUIREMENTS: To be eligible, applicants must have received a Ph.D. in computational biology, bioinformatics, genetics, evolutionary biology, or a related discipline involving significant computational experience.

The ideal candidate will have:

- Training in statistics and genetics - Fluency in Unix computing environments (shell scripting) - Basic programming experience (Perl/Python/Java) - Experience with next generation sequence analysis - Familiarity with version control systems

PREFERENCES: Highly motivated individuals with a strong background in genetics and computational biology, and a record of scientific productivity are encouraged to apply.

HOW TO APPLY: Interested applicants should submit a letter of interest, statement of research interest and experience, curriculum vita, and contact information of three professional references. Please send all materials to Jill Wegrzyn (jill.wegrzyn@uconn.edu).

jillylee@gmail.com

## UCopenhagen 7 MacroevolutionPhylogeography

The Center for Macroecology, Evolution and Climate at the University of Copenhagen invites applications for 7 postdoctoral positions and one PhD position in the following fields:

Announcement of eight fixed-term Postdoc/PhD positions (2-3 years): 1. Postdoc in Macroecology 2. Postdoc in Marine Macroecology 3. Postdoc in Comparative Phylogeography 4. Postdoc in Macroevolution 5. Postdoc in Community Ecology 6. Postdoc in Theoretical Community Ecology 7. Postdoc in Experimental and Environmental Economics 8. PhD in Bird Movement

Full descriptions of individual positions and relevant contacts are available at www.macroecology.ku.dk/-opportunities_new We also welcome inquiries from prospective applicants for Marie Curie fellowships.

The center (www.macroecology.ku.dk) is a long-term funded center of excellence with an integrated terrestrial and marine research program addressing fundamental questions on the origin, maintenance, conservation and future of life and biological diversity on Earth. Researchers at the center currently represent 14 different nationalities and the working language is English.

Candidates should have a track-record of publications, relevant analytical and data handling skills, and an ability to collaborate within an international research team. Competitive salaries and benefits are offered.

Applications must be submitted via the link in the position descriptions before 18 August. For inquiries about the program, contact Professor Carsten Rahbek, crahbek@snm.ku.dk.

kamarske@snm.ku.dk

## UCopenhagen AncientDNAEvolutionaryGenomics

Postdoc in Ancient DNA and Evolutionary Genomics

Applications are invited for a two-year postdoctoral researcher position in the field of Ancient DNA and Evolutionary Biology in the Paleomix group led by Dr. Ludovic Orlando at the Centre for GeoGenetics, University of Copenhagen, Denmark ( http://-geogenetics.ku.dk/research_groups/palaeomix_group/).

This position is funded by the Villum Foundation and is restricted to researchers who did not graduate their Ph.D. at the Centre for GeoGenetics and who will show a maximum of 3 years post-doctoral experience at the time of the hiring. Applicants should have completed a Ph.D. in the fields of Evolutionary Genomics or Computational Science and have an established record of research productivity and publications. Research in the Paleomix group is focused on developing integrative approaches for studying ancient DNA molecules, promoting the field of palaeomics by the merger of biochemistry, molecular biology, genomics and computational biology. These approaches are presently mainly used to reconstruct the evolutionary history of horses and other equids and have strong implications for conservation. Recent work from the group includes the characterization of the oldest genome hitherto sequenced and the first ancient human epigenome. We are seeking a highly motivated and productive scientist who is interested and capable of contributing to a research team consisting of molecular biologists, bioinformaticians, statisticians, and evolutionary biologists. She/he should have strong research interests in evolutionary biology and large-scale genome analyses. The ideal candidate will show great abilities to work in a team environment and strong expertise in the molecular tools and/or computational procedures used in next-generation sequencing and population genomics. He/She will be well acquainted with Bash or another shell and will be a proficient programmer in R, Perl, Python and/or C++. Experience in the analysis of ancient DNA will be considered positively but is not mandatory. The successful candidate will also be responsible for the daily management of his/her research project in coordination with other members of the Paleomix group. He/She will be actively involved in the training and co-supervision of other staff members and students.

Further information on the Department and the Centre for GeoGenetics are linked at http:/-/www.science.ku.dk/english/about-the-faculty/-departments/ and http://geogenetics.ku.dk/, respectively. Inquiries about the position can be made to Dr. Ludovic Orlando (orlando.ludovic@gmail.com).

The University wishes our staff to reflect the diversity of society and thus welcomes applications from all qualified candidates regardless of personal background. The language of the Centre is English.

Terms of employment The position is covered by the Memorandum on Job Structure for Academic Staff. Terms of appointment and payment accord to the agreement between the Ministry of Finance and The Danish Confederation of Professional Associations on Academics in the State.

The starting salary is currently up to DKK 403,682 including annual supplement (+ pension up to DKK 69,030). Negotiation for salary supplement is possible. The application, in English, must be submitted electronically by clicking APPLY ONLINE below.

Please include - Curriculum vitae - Diplomas - Research plan description of current research plans - Complete

publication list - Separate reprints of 3 particularly relevant papers - Contact details from two references - Motivation letter

Review of applications will begin July 1st 2014 and will continue until the position is filled, with a deadline on September 30th 2014. The appointment is expected to start soon after and no later than April 30th 2015.

Apply online https://ssl1.peoplexs.com/-Peoplexs22/CandidatesPortalNoLogin/-ApplicationForm.cfm?PortalID=3789&VacatureID=-674412 awe@signatur.dk

## UFlorida Celegans EvolGenomics

Postdoc: University of Florida_Evolutionary Genomics of C. elegans

Applications are invited for a postdoctoral research associate to work on an NIH-funded project on the Distribution of Fitness Effects (DFE) of spontaneous mutations in the nematode Caenorhabditis elegans in the lab of Charles Baer at the University of Florida (http://www.biology.ufl.edu/-People/faculty/cbaer.aspx), in collaboration with Erik Andersen at Northwestern University (http:/-/www.andersenlab.org/) and José Miguel Ponciano at UF (http://www.biology.ufl.edu/People/faculty/-josemi.aspx).The project combines classical quantitative genetics with whole-genome sequencing and high-throughput phenotyping to investigate the DFE, using C. elegans as a model system.The successful applicant will ideally possess some or all of the following skills: C. elegans biology, Molecular biology, Bioinformatics of Next-Gen sequence data, High-throughput phenotyping of any organism, Computational Biology and/or Theoretical Population Genetics.Preference will be given to applicants with demonstrable expertise in the analysis of NGS data, but all applicants will be considered and the only necessary attributes are professional ambition and a commitment to excellent work in an explicitly team-oriented environment.Independent side projects on the part of the postdoc are encouraged and will be supported intellectually and financially if feasible.The initial appointment is for one year, with an additional three years' funding available conditional on satisfactory performance.

Start Date: flexible, but as early as August 2014

Starting Salary: NIH-mandated scale + competitive benefits, including family health insurance.

Location: Gainesville, Florida, USA.Gainesville is a very pleasant, medium-sized city in north-central Florida with excellent public schools and a lively night life (I hear).Outstanding year-round outdoor recreational opportunities abound, as long as they don't involve snow ("This is Florida.No snow, no ice..." - Marx).

The University of Florida is an equal-opportunity institution.Members of groups under-represented in the Biological Sciences are especially encouraged to apply.

Applicants please send a cover letter, CV, and contact information for three references by email to Charles Baer (cbaer@ ufl.edu).

Charles F. Baer Associate Professor Department of Biology / University of Florida Genetics Institute 621 Bartram Hall P. O. Box 118525 University of Florida Gainesville, FL 32611-8525 USA

Office 352-392-3550 Fax: 352-392-3704 Email: cbaer@ufl.edu web: http://www.biology.ufl.edu/-People/faculty/cbaer.aspx cbaer@ufl.edu

## UFlorida EvolutionEpigenetics 2

A postdoctoral position (duration two years at least) is available in Connie Mulligan's lab at the University of Florida.

Two NSF-funded projects are currently ongoing and the successful candidate can work on one or both:

1) Examination of DNA methylation patterns in mothers and newborns from the Democratic Republic of Congo (DRC) to test whether epigenetic alterations mediate the effects of maternal exposure to stressors on fetal development and neonatal health. Specifically, we are testing if epigenetic modifications may mediate changes in gene expression in infants or mothers that result from maternal trauma and material deprivation associated with the war in the DRC. More broadly, we are interested in the idea that behavior and complex phenotypes may be shaped by early life experiences that alter gene expression through epigenetic alterations.

2) Investigation of the genetic and cultural underpinnings of complex diseases that exhibit racial inequalities, using hypertension in African-Americans as a model phenotype. We are combining the analysis of genome-wide SNPs, genetic ancestry estimates, and

epigenetic variation with sociocultural data including experience of discrimination and social network analysis. By combining genetic and socio-cultural data, our goal is a more comprehensive investigation of complex disease and racial disparities than is possible with only one type of data.

Qualifications: A PhD and a strong background in generation of genetic data (microarray analysis, NGS, pyrosequencing, etc.) and data analysis (gene association analysis, regression analysis, genetic ancestry estimation, linkage analysis, etc) are essential. Experience generating methylation data or additional computational experience (e.g. C++,Python, R, simulation analysis, etc) is a plus. In addition to the projects listed above, there are excellent opportunities for the successful candidate to develop new lines of research as well as productive collaborations outside the lab.

The University of Florida is a leading research institution with a university-wide commitment to genetics research. The Department of Anthropology (www.anthro.ufl.edu) has 30 full-time faculty with diverse interests and a very strong biological subfield, with emphases on molecular, paleo, and forensic anthropology. The department is one of the top rated programs in the country (6th among public institutions, 11th overall). The University of Florida Genetics Institute (www.ufgi.ufl.edu) is an inter-college entity with a new research building intended to enhance opportunities for collaboration. Gainesville is located in north central Florida (away from the hurricanes!), with average temperatures ranging from 45F to 90F. Beaches on the gulf and Atlantic coast are ~ $1\frac{1}{2}$ hours away.

To apply: via email, send a CV, a statement of research interests, and the names and contact information (including email and phone) for three references. Applications should be sent by July 30, 2014 to cmulligan@ufl.edu.

Review of materials will begin immediately and will continue until the position is filled. Start date is flexible and can start as early as August, 2014. Salary is commensurate with experience. Position may be extended for a total of three years. Informal inquiries prior to submitting a formal application are welcome. AA/EOE.

Connie J. Mulligan, PhD Professor and Associate Chair, Department of Anthropology Associate Director, UF Genetics Institute 2033Mowry Rd, PO Box 103610 | University of Florida | Gainesville, FL 32610-3610 Office: 409 Genetics Institute | Telephone: 352-273-8092 | Fax: 352-273-8284 Website: http://www.clas.ufl.edu/users/-mulligan/Webpage/index.html "Connie J. Mulligan" <cmulligan@ad.ufl.edu>

## UFlorida RNAiEvolution

We are looking for a talented, creative postdoc to help head up a 3-year NSF-funded project examining the molecular-functional-structural evolution of RNA interference (RNAi) in animals and plants.

We are particularly interested in understanding how diversification of key proteins in the RNAi system produced the molecular-systems complexity necessary to support multicellularity in these two lineages. By comparing independent expansions of RNAi in animal and plant lineages, we expect to be able to begin understanding the extent to which plant and animal RNAi are functionally and structurally convergent. Our aim is to go beyond a catalog of molecular-functional evolution to begin figuring out the general principles by which molecular systems evolve and contribute to organism complexity.

We use a variety of computational, in-vitro and cell-culture techniques to understand the evolution of molecular function, including ancestral protein resurrection, molecular dynamics simulations, binding kinetics experiments, and gene expression in human cells. We are open to and encourage the development of new methodologies for addressing these questions.

Our lab has a general interest in comparative innate antiviral immunity and supports a variety of researchers working on related projects. We are generally a hard-working, relaxed group that enjoys creative, rigorous and innovative science in a cordial atmosphere fueled by lots of good coffee.

For more information about our lab and other groups at UF, check out the following resources:

https://www.facebook.com/kolaczkowskilab http://-scholar.google.com/citations?user=3FQG18EAAAAJ http://evolution.group.ufl.edu http://microcell.ufl.edu http://ufgi.ufl.edu http://biochem.med.ufl.edu For more information, please contact:

Bryan Kolaczkowski

bryank@ufl.edu

Assistant Professor University of Florida

bryan kolaczkowski <bryank@ufl.edu>

## UHawaii Hilo Bioinformatics 2

Just a quick reminder regarding this position. If you are considering applying please send in your application by 1 August

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Postdoctoral Fellow in Bioinformatics/Evolutionary Genetics to examine short- and long-term organismal response to environmental change

We are looking for a motivated bioinformaticist to join the CREST team at the University of Hawaii Hilo. CREST is a 5-year NSF-funded project (July 2014 - June 2019; see project overview below). Hawaii is world renowned as an ideal setting for evolutionary studies, and Hilo and the Big Island boast exceptional cultural and natural diversity and a high standard of living.

This is an exciting opportunity to work with a diverse team of researchers working collaboratively on the common theme of organismal response to environmental change. The successful candidate will join a team of 9 faculty, 3 technicians, and several graduate students studying the short-term (stress response) and long-term (adaptation) responses of a broad range of terrestrial and marine organisms to environmental change, broadly defined.

The postdoc will provide expertise in the application of bioinformatics analyses and will work alongside project personnel and collaborating bioinformaticists on campus and at outside institutions on the analysis of genomics and transcriptomics data to meet project goals. Responsibilities will include: collaborating in the design of experiments and analysis of data from next-generation sequencing instruments, including RNA-Sequencing, SNP, and full-genome sequencing data; assisting in the management of genomic data and associated phenotypic trait data on various local data storage systems; and preparation of manuscripts, reports and presentations.

CREST Project Overview: The overarching theme of this project is Understanding Biotic Response to Environmental Change in Tropical Ecosystems Through a Place-Based Context. This CREST:TCBES proposal focuses on three synergistic research themes: 1) Organismal Response to Environmental Change (OREC): While local adaptation along environmental gradients and tracking of changing environments involve short-term acclimation and longer term evolution, it is not known if organisms are responding to average environmental conditions or to the extreme conditions experienced in their habitats. The OREC team will examine the short- and long-term responses of key organisms to a range of environmental conditions, both steady and fluctuating, and will incorporate those results into models of landscape-level response to climate change. 2) Behavioral Responses to Environmental Change (BREC): Behaviors central to the survival and reproductive success of animals have evolved through natural and sexual selection in a far different ecological environment than exists today. The BREC team will use emerging genetic and acoustic tools to examine the effect of anthropogenic change on important social behaviors in animals ranging from arthropods to whales. 3) Dynamic Interactions between Symbioses and Environment (DISE): Macro-organisms live in symbiosis with a community of microorganisms; these symbiotic relationships can shift in response to environmental changes. The DISE team will explore adaptations of the mutualism-pathogenesis-parasitism continuum in multiple symbiotic systems. Integration of next-generation DNA sequencing and bioinformatics analysis in each of the research areas

will allow unprecedented insight into the molecular basis of biotic responses to environmental change.

As teaching experience is an important component of the postdoctoral experience, the postdoc will also be encouraged to teach one course or workshop per year at UH Hilo at the graduate** or undergraduate level in his/her area of expertise.

**Tropical Conservation Biology and Environmental Science Graduate Program

http://tcbes.uhh.hawaii.edu/ The position is for one year, renewable.

The successful candidate will be a self-starter and creative problem solver with strong communication and interpersonal skills. Minimum qualifications: PhD involving bioinformatics analysis on an evolutionary problem, experience with genomic techniques and bioinformatics analysis. Desired qualifications: software development and implementation for multi-dimensional data from genome sequencing, gene expression and SNP genotyping between species, populations and experimental treatments, mathematical modeling of population genetic processes.

For Inquiries: Donald Price 808-932-7178, donaldp@hawaii.edu.

To apply: Please send CV, contact information for 3 references, a cover letter describing how you meet the

position's qualifications, and any relevant publications. Please send all materials in a single email to Don Price (donaldp@hawaii.edu) with the subject line Bioinformatics Postdoc.

Anticipated start date: 1 September 2014 <x-apple-data-detectors://4> (but flexible). Review of

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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

## UIllinois EvolGenomics

Post-doctoral Position in physiological genomics and high-altitude adaptation

A postdoctoral position is available in the Cheviron Lab at the University of Illinois, Urbana-Champaign (http://bit.ly/1f5N7Zb) as part of an NSF-funded, international collaboration to study the mechanistic underpinnings of hypoxia adaptation and thermogenic performance in high-altitude deer mice [1,2,3,4]. The ideal candidate will have a strong background in evolutionary physiology or evolutionary genetics, experience with bioinformatic and functional genomic analysis, and experience with computational analysis of RNA-seq and/or metabolomic data. Programming proficiency in perl, python or other scripting languages and/or regulatory network analysis will be considered a plus. The position will involve close collaboration with Graham Scott and Grant McClelland at McMaster University, Amina Qutub at Rice University, and Jay Storz at the University of Nebraska. It will also provide opportunities for fieldwork in some beautiful places, like the Front Range of the Rocky Mountains in Colorado and White Mountains of eastern California.

The start date is flexible, but preferably before January 2015, and the position is full-time for two years subject to satisfactory performance in the first year. Further extension may be available subject to funding availability and performance. Salary will be commensurate with experience and skills, and a generous benefits package will be offered. Interested applicants should send a CV, a brief description of research interests and experience, and contact information for three references to Zac Cheviron (cheviron@illinois.edu).

To receive full consideration, please send all application materials before June 30, 2014. I will also be attending the Evolution meeting in Raleigh NC this month, and would happy to meet with potential candidates there.

1. Cheviron et al. (2012) Proc. Natl. Acad. Sci. 109:8635-8640; 2. Cheviron et al. (2013) J Exp. Biol. 216:1160-1166; 3. Cheviron et al. (2014) Evolution. 68:48-62; 4. Storz et al. (2010) J Exp Biol. 213:4125-4136.

cheviron@illinois.edu

## UJyvaskyla EvolutionaryTheory

Postdoctoral Researcher in evolutionary theory

University of Jyväskylä, Finland - The Department of Biological and Environmental Science is seeking to recruit staff to the position of a

Postdoctoral researcher in Ecology and Evolutionary Biology, for a fixed term of two years, start date negotiable from 1 December 2014 onwards.

The postdoctoral researcher will work in the project "Evolutionary theory of animal reproductive strategies", funded by the Academy of Finland and led by Dr. Lutz Fromhage. This project explores the evolution of reproductive strategies in a broad sense, including aspects of sexual selection, life-history, and cooperative breeding. Specific questions within this area are flexible and can be tailored to the interests of the applicant.

The postdoctoral researcher is expected to focus on scientific research. Candidates should possess excellent mathematical and computational skills, and should have published work in evolutionary theory.

The job-specific salary component of a postdoctoral researcher is based on the job demands level 5-6 (EUR 2840,64-3313,22/month) according to the salary system concerning teaching and research staff at universities. In addition, a personal performance-based salary component amounting to a maximum of 46,3% of the job-specific salary component is paid. The trial period is four months.

For further information, please contact: Dr. Lutz Fromhage (lutz.fromhage@jyu.fi).

The application should include (as pdf files):

1. A brief letter of motivation

2. Curriculum vitae (CV) containing a publication list and contact details of two senior academics available

for reference

Please submit your application at the latest on 31.10.2014 using the online application form.

Lutz Fromhage <lfromhage@gmail.com>

## UMissouri EvolutionaryGenetics

A postdoctoral position is available in the laboratory of Elizabeth King (http://elizabethking.org) at the University of Missouri. The primary research aim in the King lab is to understand the genetic and physiological basis of life history evolution using Drosophila melanogaster as a model system. Much of our current work relies on the DSPR (http://flyrils.org), a large genetic mapping panel, and involves molecular genetics, large genomic data sets, bioinformatics, and advanced statistical techniques. All members of the King lab are expected to gain proficiency in the analysis of genomic datasets. While experience with scripting languages (R, perl, python) is not required, a willingness to learn is.

Initial appointment is for 1 year with the possibility of renewal based on satisfactory performance and will include benefits and a competitive salary. The start date for the position is flexible, ideally no later than January 2015.

Interested applicants should email Elizabeth King (kingeg@missouri.edu) and provide a brief cover letter, a C.V., and names and contact information for 3 references. The cover letter should include a description of previous research experience, interest in the position, and future career goals. The position will remain open until filled.

The Division of Biological Sciences at MU (http://-biology.missouri.edu/) has research strengths in evolutionary biology, genetics and genomics, and quantitative biology. MU also boasts a highly collaborative research environment between departments within the life sciences (e.g., animal sciences, plant sciences, biomedical sciences, statistics, etc.). Columbia is a vibrant college town located in mid-Missouri, 2 hours from both Kansas City and St. Louis (http://en.wikipedia.org/-wiki/Columbia,_Missouri).

Contact for all inquires and applications:

Elizabeth (Libby) King Assistant Professor Division of Biological Sciences University of Missouri 401 Tucker Hall Columbia, MO, 65211, USA email: kingeg@missouri.edu website: http://-elizabethking.org kingeg@missouri.edu

## UNebraska Lincoln MolEvol

POST-DOCTORAL POSITION in Molecular Evolution University of Nebraska, Lincoln, NE

A post-doctoral position is available in the Storz lab at the University of Nebraska. This is one of two possible positions associated with an NIH-funded project that is designed to address questions about the roles of mutational pleiotropy and epistasis in shaping trajectories of protein evolution. The project involves the use of a protein-engineering approach to explore the mutational landscape of hemoglobin function in experimentally defined regions of protein sequence space. The work integrates evolutionary analyses of sequence variation with functional analyses of native and recombinant hemoglobins from a diverse range of animal taxa. The post-doc's work would involve ancestral sequence reconstructions, phylogenetic analyses, and comparative genomics, and there is also the opportunity to get involved in experimental aspects of the project involving protein biochemistry.

The ideal candidate would have expertise in molecular evolution, bioinformatics, and genomics and an enthusiasm for integrative evolutionary biology.

For more information about research in the lab, see: http://storzlab.unl.edu/ If interested, please send a CV and contact information for a few references. The position could start as early as summer 2014, but the start-date is flexible. Funding is potentially available for 3+ years. Salary will be determined by the NIH pay scale and will include full benefits. Please feel free to contact me (jstorz2@unl.edu) with any questions.

Lincoln is a great midwestern college town with high quality of life and miles of bike trails. The School of Biological Sciences at the University of Nebraska has a great core group of evolutionary biologists.

I will be attending the SMBE meeting in Puerto Rico (8-12 June) and the Society for Experimental Biology meeting in Manchester, UK (1-5 July), and I would be happy to meet with prospective candidates in person.

Jay Storz

Jay F. Storz Susan J. Rosowski Associate Professor of Biology School of Biological Sciences University of Ne-

braska Lincoln, NE 68588 Phone: 402/472-1114 E-mail: jstorz2@unl.edu

http://storzlab.unl.edu Jay Storz <jstorz2@unl.edu>

## UNorthCarolina Charlotte PlantTranscriptomics

University of North Carolina at Charlottes

Plant Population Genomics and Biotic Stress

A postdoctoral position is available in the laboratory of Bao-Hua Songs lab at University of North Carolina at Charlotte to study wild soybean biotic stress. The primary research involves identifying genes that are responsible for wild soybean biotic stress. Specific tasks include stress resistance/tolerance assays, genomic analysis of diverse ecotypes, transcriptome analysis and candidate gene selection. The candidate must be passionate and hard working, able to create an environment that fosters diversity, and ability to work in a multi-cultural setting.

The position is full-time for two years subject to satisfactory performance in the first year. The position is available immediately and will remain open until filled.

To apply, please send a cover letter that describes your background, motivation, and interests as well as a full CV to bsong5@uncc.edu. Please also arrange to have two letters of recommendation sent directly by the letter writer to the above email address as well.

The University of North Carolina at Charlotte is an EOE/AA employer and an ADVANCE Institution that strives to create an academic climate in which the dignity of all individuals is respected and maintained. Therefore, we celebrate diversity that includes, but is not limited to ability/disability, age, culture, ethnicity, gender, language, race, religion, sexual orientation, and socio-economic status.

"Song, Bao-Hua" <bsong5@uncc.edu>

## UOklahoma FishEvolution

The University of Oklahoma, Department of Biology invites applications for a post-doctoral fellow to work in the lab of Dr. Ingo Schlupp ( http://www.ou.edu/-schlupp/). We seek a highly motivated, innovative scientist working in any area of Evolutionary Ecology. The Schlupp lab is working mainly with livebearing fishes, and experience with that group would be beneficial.

The training and duties include carrying out research independently and seeking extramural funding. We seek a person that works well with Graduate and Undergraduate students. The post-doctoral scholar is expected to teach one course per semester. The topic of the course will be determined together with the Chair of Biology, Dr. Randall Hewes.

The position is for four years, with annual renewal, and an annual salary of $40,000.

The Department of Biology provides a vibrant, positive environment fostering excellence in Research and Teaching (http://biology.ou.edu/). Norman is a safe, family friendly community with many of the benefits associated with a college town, including low cost of living.

A PhD is required at the time of appointment. Applicants should send a single pdf containing the following items in order: cover letter, CV, research and teaching statement, and up to three reprints/preprints. Also, please provide contact information for two referees (name, affiliation, e-mail address, and telephone number). The pdf should be named with the candidates Lastname_Firstname and e-mailed to Dr. Ingo Schlupp at schlupp@ou.edu. Review of applications will begin August 15th and continue until the position is filled.

The University of Oklahoma is an Equal Opportunity Employer.

Dr. Ingo Schlupp Presidential Professor of Biology Associate Dean for Faculty and Research College of Arts and Sciences http://www.ou.edu/schlupp/ ingoschlupp@gmail.com

## UPorto Portugal PopulationGenetics

Population Genetics, Conservation Genetics & Phylogeography

One Postdoctoral Fellowship is available at CIBIO (http://cibio.up.pt), University of Porto, Portugal, in the field of population genetics and phylogeography, under the Program ON2.

Candidates should have a solid research background in the interface between population genetics/genomics, phylogeography and conservation biology, as well as experience in fieldwork. They should master molecular biology techniques including genotyping (microsatellites) and sequencing, preferably using both Sanger and Next Generation Sequencing procedures, and be familiar with multiple and commonly used population genetics software tools. Topics to be developed during the Post-doc include but are not limited to i) analysis of population structure and relevance for conservation, ii) analysis of hybrid zones using multiple types of molecular markers in spatially explicit contexts, iii) genetic differentiation of populations and description of hidden biodiversity, particularly possible new species or subspecies, iv) identifying genes or genomic regions associated with incipient speciation processes, v) understanding of the domestication process and the genes/genomic regions underlying it. Projects can include a variety of species, both model and non-model organisms. Candidates should have a PhD in biology, preferably a minimum of 3 years of Post-doc and solid background in the field. They should have a good publication record in SCI journals in this area. Candidates should be good communicators, and speak and write fluently in English.

The ranking of candidates will result from a global appreciation of the Curriculum vitae, possibly followed by an interview. The Fellowship will correspond to 1450 per month (free of taxes). The contract will end on the 30th of June 2015.

Applications are open between the 15th and the 31st of July 2014.

Applications should be sent to bolsas.cibio@cibio.up.pt and will include a motivation letter, a detailed CV and the email contact of three referees. The jury is composed by: Dr. Raquel Godinho, Dr. Paulo Célio Alves and Prof. Nuno Ferrand de Almeida. Dr. Natália Dias is a substitute member.

The selected candidate is expected to start immediately after selection. Candidates will be informed about the result of their application by email.

Job Reference: ON2 _ CIBIO_FCOMP-01-0124-FEDER-000030

Natália Dias Executive Coordinator CIBIO

Natalia Dias <natalia.dias@cibio.up.pt>

## USheffield PopulationGenomics

Application is now open for the following postdoc position we announced earlier. To apply, please visit http://www.sheffield.ac.uk/jobs/and quote the reference number UOS008884. The initial closing date is 31 August 2014. Please note the updated information about starting date and other specifications of the post.

A postdoc position is available to work with Dr Kai Zeng and Prof Jon Slate at the University of Sheffield. The position is funded by the Natural Environment Research Council (NERC) to carry out population genomic studies in great tits (/Parus major/). Questions of interest include examining how demography and natural selection shape patterns of diversity across the genome and understanding what evolutionary forces have acted on loci that underlie phenotypic variation, by using existing methods and developing new methods. The project involves whole-genome sequencing of multiple great tit individuals using high-throughput sequencing instruments, and the subsequent bioinformatic/population genetic analysis of the data. Therefore, demonstrable expertise in population/evolutionary genetics, computer programming and statistical analysis of large-scale datasets is essential. Experience in preparing DNA samples for high-throughput sequencing instruments is an advantage, but non-essential.

The post is available for up to 3 years, and is available from January 2015 or as soon as possible afterwards. The starting salary is £28,972- £30,728 perannum, depending on experience and qualification. The applicant should provide a CV, a list of publications, a statement of research interests, and contact details of at least two referees.

Enquiries are welcomed and should be sent to k.zeng@sheffield.ac.uk

Kai Zeng <k.zeng@sheffield.ac.uk>

## UToulouse PlantQuantGenetics

*Postdoctoral Research Assistant in Evolutionary

Quantitative Genetics*

*Evolution & Biological Diversity Laboratory, University of Toulouse, France.*

*"The quantitative genetic architecture of adaptation in a wild plant population"*

Research Grant Holder: Benoit Pujol (CNRS)

This is a 23 months research project funded by the University of Toulouse Excellence Initiative Projects (IDEX UNITI). Note that the initial appointment would be for one year, it would be renewable upto 11 further months. The position can start as early as mid November 2014. The monthly salary is approximately 2000 euros and includes social security (French public welfare system). French is not mandatory.

The successful candidate will assist with the evolutionary quantitative genetics analysis of a wild population of Snapdragon plants (/Antirrhinum majus/) in Southern France. The aim of this project is to evaluate the adaptive potential of this fragmented population which is surveyed since 2010 (5 year data set;/n/~2000 plants). This project will produce a rigorous framework for evaluating the contribution of environmental and genetic factors to the fitness of plants in the wild. A suite of microsatellite markers will be used to deduce the relationships of individuals in the population (Additional genotyping will be carried out by technical staff in Toulouse and is therefore not a requirement of the postdoc). There will be scope for collaboration on other projects underway in the group. The postdoc will participate to field work. This project offer opportunities for further international collaborations, high profile publications and career development.

Candidates should have completed, or be about to complete a PhD in quantitative genetics and/or evolutionary ecology and ideally have experience in pedigree reconstruction and advanced statistical methods for the quantitative genetics analysis of wild populations.

Closing date for application (CV + letter): 1^st of September. Interviews will take place during the first two weeks of September (Voice over IP service or phone are OK).

Informal inquiries should be directed tobenoit.pujol@univ-tlse3.fr for particulars about the research lab and current focus of work being conducted in it, see Benoit Pujol's website at

http://www.edb.ups-tlse.fr/Pujol-Benoit.html *Benoit PUJOL* French CNRS researcher CNRS Research Network Manager - Quantitative genetics in the wild

Lab. Evolution & Diversité Biologique (EDB) Office 22, Bat. 4R1, Université de Toulouse Paul Sabatier, 118 Route de Narbonne 31062 Toulouse Cedex 09 Tel: 0033(0)561 558 545 Mail: benoit.pujol@univ-tlse3.fr

benoit.pujol@univ-tlse3.fr

## UUtah PlantAnimalInteractions

*Postdoctoral Fellowship*

*Plant-Animal Interactions*

*Plant-Animal Interactions*: The Dearing lab at the University of Utah invites applications for a postdoctoral fellow to participate in a study to understand the co-evolution of mammalian herbivores and plant defensive compounds. This collaborative project will investigate the role of a subfamily of detoxification enzymes with respect to dietary strategy. Few mammalian herbivores are capable of dietary specialization. Our preliminary data suggest the cytochrome P450 2B subfamily is critical in the biotransformation of plant secondary compounds, particularly terpenes. These enzymes may play a key role in dietary specialization since substrate specificity and catalytic efficiency of CYP2B enzymes can be greatly affected by small changes in amino acid sequence. The change of even a single amino acid, particularly in critical regions such as a substrate recognition site, can have notable effects on metabolism of substrates. Thus, the structure and copy number of CYP2B genes may be key in an herbivore's ability specialize on a terpene-rich diet. The future work consists of characterizing and comparing the amino acid sequences of CYP2B enzymes of specialist and generalist woodrats (*Neotoma spp.*) and possibly other terpene feeders. We are currently sequencing the genome of *Neotoma lepida* with assembly expected by October 1, 2014. The successful applicant will use this new genomic information to amplify and sequence CYP2B genes from a variety of wild mammalian species, compare predicted protein sequence with respect to degree of dietary specialization, and characterize the function of the proteins purified from heterologous expression systems to determine the structural basis of functional differences. This research is a collaborative project with Dr. James Halpert, UConn and provides possibilities for interactions with his research group.

For more information on previous research, see:

http://biologylabs.utah.edu/dearing/2011/-Publications/journal_pone_0041510.pdf http://-biologylabs.utah.edu/dearing/2011/Publications/-

Woodrats/mec_4171.pdf The ideal candidate will have experience accessing and evaluating genomic data, using molecular techniques, and have an interest in addressing questions of molecular evolution, molecular ecology or plant-animal interactions. Animal collection fieldwork is possible. The candidate should have at least one first authored publication in press. The Dearing lab provides a strong training and career development environment for candidates interested in academic positions. Teaching experience (Mammalogy) is a possibility for interested candidates.

Applications will be reviewed as they are received through September 1st, 2014. The anticipated start date is October 15, 2014. Please send a C.V., statement of research interests that includes career goals (1-2 pgs), pdfs of papers, and contact information (emails and phone numbers) for at least 3 professional references to Dr. Denise Dearing, care of Jael Malenke, malenke@biology.utah.edu; please put 'Postdoctoral Applicant CYP2B' in the Subject Line.

jaelmalenke@gmail.com

## UVermont PlantEvolGenomics

Post-doctoral position in Plant Evolutionary Genomics

A postdoctoral position is available in the Preston lab at the University of Vermont, Burlington to work on an NSF-funded project using genomic, phylogenetic, and functional analyses to trace the evolutionary origin(s) of vernalization responsiveness in pooid grasses. The ideal candidate will have a strong background in evolutionary biology or developmental genetics, experience with bioinformatics/functional genomic analysis and computational analysis of RNA-seq data, and molecular biology skills.

The position is full-time for two years subject to satisfactory performance in the first year. Further extension may be available subject to funding availability and performance. The start date is flexible, but preferably before January 2015.

Interested applicants should send a single PDF containing their current CV, the name and contact details for two referees, and a a brief description of research interests and experience to Dr. Jill Preston (Jill.Preston@uvm.edu). To receive full consideration, please send all application materials before August 15th, 2014. Details of the position can also be discussed in person at the Botany meeting in Boise, Idaho.

Jill Preston Department of Plant Biology University of Vermont 111 Jeffords Hall 63 Carrigan Drive Burlington, VT 05405 USA http://jillpreston.weebly.com/ Jill.Preston@uvm.edu

## UVigo PopulationGenomics

Postdoctoral position in NGS population genomics University of Vigo, Spain

DESCRIPTION: A postdoctoral position is available to work on an ongoing research project on the evolution of marine snails in the Cape Verde archipelago, in David Posada's lab at the University of Vigo, Spain (http://-darwin.uvigo.es).

The appointment will start as soon as October 2014 and will end no sooner than December 2015. Gross annual salary including benefits will be 25,000-30,000 Euros, commensurate with experience. Starting date is negotiable.

MINIMUM REQUIREMENTS: Candidates should have a doctoral degree in Science, advanced programming skills and demonstrable experience with NGS data analysis.

DESIRABLE REQUIREMENTS: Background in population and/or evolutionary genomics, and statistical skills.

APPLICATION: Please send a single pdf including a letter of interest, C.V., and the names and contact details of two referees to xb5lab@gmail.com, indicating postdoc conus application± in the subject of the email.

Questions and requests for additional information should be directed to the same email address. Review of applications will begin immediately, and continue until the position is filled.

David Posada Facultad de Biologa Campus Universitario Universidad de Vigo 36310 Vigo Spain

Phone: +34 986 812038 Cell: +34 647 343300 Fax: +34 986 812556 Email: dposada@uvigo.es Web: http://-darwin.uvigo.es dposada@uvigo.es

## WesternU Ontario TheoEvolBiol

POST-DOCTORAL FELLOW IN THEORETICAL EVOLUTIONARY BIOLOGY

Department of Applied Mathematics Western University, London, Ontario, Canada Start date: September 2014 (flexible/negotiable) Term: 2 years (subject to satisfactory progress) Salary: 45,000 to 50,000 CDN$ p.a.

DESCRIPTION

Research in theoretical evolutionary biology at Western tackles problems in both experimental evolution and sociobiology (see www.apmaths.uwo.ca/~lwahl and www.apmaths.uwo.ca/~gwild for greater detail) . We are hiring a post-doctoral fellow interested in modeling evolution as it occurs in both laboratory experiments, and field settings. The successful candidate will be expected to carry out both independent and collaborative research, and will mentor graduate students in the group. The successful candidate may also apply for sessional teaching positions (one term per year) in order to supplement his/her income and gain teaching experience, if so desired (subject to departmental approval).

QUALIFICATIONS

A Ph.D in theoretical population genetics, mathematical biology or a related discipline. A demonstrated interest in population genetics and theoretical evolutionary biology. Experience with differential equations, linear algebra, and/or stochastic processes. Excellent written and oral communication skills.

Previous post-doctoral experience is not necessary, but will be considered to be an asset.

HOW TO APPLY

Please prepare an application package that includes (i) a one-page cover letter outlining how your qualifications match the demands of the position, (ii) current CV, (iii) a one-page statement of research interests, (iv) two relevant reprints or pre-prints, (v) names and contact information of two referees. Please email (i)-(v) as a single pdf to lwahl@uwo.ca DEADLINE

Applications will be reviewed beginning July 15 2014, until the position is filled.

Geoff Wild <gwild@uwo.ca>

## Zurich EvolutionaryEcology

Eawag and the Department of Aquatic Ecology seeks to recruit a : Postdoc in evolutionary ecology of aquatic ecosystems

Eawag, the Swiss Federal Institute of Aquatic Science and Technology, is a Swiss-based and internationally networked aquatic research institute within the ETH domain (Swiss Federal Institutes of Science and Technology). It is committed to the ecologically, economically and socially responsible management of water resources and aquatic ecosystems.

The Postdoc will be funded by a Swiss National Science Foundation grant, entitled The eco-evolutionary dynamics of community assembly in aquatic ecosystems±. The aim of the project is to understand how ecological and evolutionary processes jointly drive community assembly in aquatic ecosystems. The project involves a combination large-scale experiments that manipulate the ecological and evolutionary diversity of food webs under contrasting environmental conditions, as well as the analysis of existing long-term datasets of plankton biodiversity dynamics in freshwater lakes. The project is broadly focused on aquatic food webs, including microbial, phytoplankton, zooplankton, and fish communities. Ultimately, the research addresses fundamental links between the ecology and evolution of food webs and the physical environment and biogeochemistry of ecosystems.

We are looking for candidates with strong analytical abilities and a broad interest in ecology, evolution, and/or ecosystem science. It would be an asset to have experience with one or more of the following: analysis of large biodiversity datasets, community phylogenetics, molecular ecology, next generation sequencing.

We offer a stimulating and international research environment, excellent research facilities and a lively and social working place. Eawags Center for Ecology, Evolution & Biogeochemistry (CEEB) is located in Kastanienbaum LU on the shore of Lake Lucerne and is a strong nucleus of Eawag research groups aimed at integrating evolutionary biology, community ecology, and ecosystem science http://www.eawag.ch/-forschung/cc/ceeb/index_EN. The postdoc will interact with a diverse range of researchers studying community ecology, evolutionary biology, ecological genetics, ecosystem science, and applied environmental science.

The project will also involve collaborations between researchers at Eawag (Dr. Blake Matthews, Dr. Helmut B[1]rgmann) and the University of Geneva (Dr. Bas Ibelings).

The starting date for the Postdoc is flexible, but a starting date in 2014 or early 2015 is preferred. The position is for between 2-3 years. Applications should include a cover letter, a curriculum vita, and three references. Copies of 3-5 prior publications will also be considered if made available via PDF. Applications must be submitted by 15 August 2014.

For further information, consult http://-homepages.eawag.ch/ ~ matthebl/Welcome.html or directly contact Dr. Blake Matthews: Tel: +41 58 765 2120, E-mail: blake.matthews@eawag.ch

We look forward to receiving your application through this webpage, any other way of applying will not be considered. Please click on the link below, this will take you directly to the application form. http://internet1.refline.ch/673277/0298/-++publications++/1/index.html "Matthews, Blake" <Blake.Matthews@eawag.ch>

# WorkshopsCourses



## Barcelona HumanGenomicDataAnalysis Jan26-30

Dear colleagues,

Registration is open for the course: "Introduction to Genomic data analysis using HapMap and 1000 genomes projects - Third edition"; January 26-30, 2014. 30 hours on-site.

Instructors: Dr. Marc Via (University of Barcelona, Spain) and Robert Carreras-Torres (University of Barcelona, Spain).

Site: Premises of Sabadell of the Institut Catalá de Paleontologia Miquel Crusafont (Bercelona, Spain).

Webpage: http://www.transmittingscience.org/-courses/gen/hapmap/ 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.

Course poster: http://www.transmittingscience.org/-

wp-content/uploads/Course-Poster-Introduction-to-Genomic-Data-Analysis-Using-HapMap-and-1000-Genomes-Projects.pdf This course is co-organized by Transmitting Science and the Institut Catalá 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/ >

## Barcelona ModellingDynamicSystems Jan19-22

Dear Colleagues,

Registration is open for the course "MODELLING DINAMICS IN BIOLOGY. FROM HISTORY TO PRACTICAL EXAMPLES", January 19-22, 2015. 28 hours on-site.

Instructors: Dr. Andreea Munteanu (CGR, Spain) and Dr. Carlos Rodríguez-Caso (Universidad Pompeu Fabra, Spain)

Place: Premises of Sabadell of the Institut Català de Paleontologia Miquel Crusafont, Sabadell, Barcelona (Spain)

The current course will present an overview of systems biology with emphasis on the necessity, uses and pitfalls of dynamical modelling in biology. It introduces the required language and philosophy for a smooth and fruitful collaboration between life scientists and theoreticians (i.e. mathematicians, physicists, computer scientists). The main goal of the course is not a detailed description of the modelling tools in systems biology, but a thorough overview of the terminology and applicability range of these methodologies. The time dedication throughout the course will be one third for theoretical introduction, and two thirds for modelling applications for very diverse biological systems. The participants will acquire the necessary skills to understand and interpret models and modelling results from scientific articles, and will take the first steps into building their own mathematical models.

Organized by: Transmitting Science and the Institut Catalá de Paleontologia

More info: http://www.transmittingscience.org/-courses/syst-bio/intro-system-bio/ or writing to courses@transmittingscience.org

Course poster: http://www.transmittingscience.org/-wp-content/uploads/Course-Poster-Modelling-Dynamic-Systems-in-Biology-From-History-to-Practical-Examples.pdf With best regards

Soledad De Esteban Trivigno, PhD. Course Director Transmitting Science www.transmittingscience.org soledad.esteban@transmittingscience.org

## Copenhagen SpeciesDistModelling 25-29Aug

LAST WEEK TO REGISTER!

The Center for Macroecology, Evolution and Climate is now accepting applications for our annual PHD course entitled "Modelling species distributions under climate change", to be held at the University of Copenhagen August 25-29.

Read more about it here, including information on how to apply:

http://macroecology.ku.dk/teaching/int_phd_course/ Please note that this course is available to PhD students ONLY, and applications received outside of the application period will not be considered; this year's deadline is June 6.

Applications and other inquiries should be directed to David Nogués-Bravo: dnogues@snm.ku.dk.

Katharine Ann Marske, PhD

Assistant Professor

Center for Macroecology, Evolution and Climate Natural History Museum of Denmark University of Copenhagen Universitetsparken 15 DK-2100 Copenhagen Ø Denmark

kamarske@snm.ku.dk

## Heraklion StatisticalMethodsOmicsData Nov10-12

Dear Brian, and Evoldir members,

We would like to announce the workshop: $B!H(BStatistical Methods for Omics Data Integration and Analysis$B!H(B that will take place in Heraklion, Crete, Greece, November 10-12, 2014, and will be hosted by Foundation for Research and Technology, Hellas

website: http://smodia2014.com/ facebook event page: https://www.facebook.com/events/-664407176983393/ Objectives:

This workshop aims to bring together researchers in the fields of biology, bioinformatics, computational biology, statistics, biostatistics, machine learning, data mining, and pattern recognition that work on the analysis of omics data (e.g., transcriptomics, metabolomics, genomics) and particularly researchers that focus on developing new methods of integrating data, integrating their visualization, and integrating analysis of multiple and heterogeneous datasets. More details of the objectives of the workshop are here .

Keynote Speakers:

A panel of prominent keynote speakers will present in the workshop:

*-John Storey** , Princeton University*

*-Michael Stumpf**, Imperial College*

*-Andrew Teschendorff**, UCL, London*

*-Sven Nelander**, Uppsala University*

For more information about keynote speakers follow the link ( http://smodia2014.com/speakers/)

In addition, the workshop will be attended by most STATegra partners.

A number of selected abstracts will be invited to be submitted as full papers for inclusion in the Supplement hosted by a special issue BMC Bioinformatics, fully peer-reviewed.

Kind Regards,

Pavlos Pavlidis

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Pavlos Pavlidis, PhD

Foundation for Research and Technology - Hellas Institute of Molecular Biology and Biotechnology $B&-(Bikolaou Plastira 100, Vassilika Vouton GR - 711 10, Heraklion, Crete, Greece

pavlidisp@gmail.com

## Lausanne Switzerland StatisticalGenetics Sep1-12

COURSES

SWISS INSTITUTE IN STATISTICAL GENETICS 2014

4 MODULES - Population Genetics Data Analysis - Elements of R for Genetics and Bioinformatics - Quantitative Genetics - Mixed Models in Quantitative Genetics

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POPULATION GENETICS DATA ANALYSIS - Module 2

Teachers: Prof. Jérôme Goudet & Prof. Bruce Weir

WHEN? 1 - 3 September 2014 WHERE? University of Lausanne

INFO AND REGISTRATION: http://www.cuso.ch/-activity/?p28&id83 Description: This module serves as a foundation for many of the later modules.

Estimates and sample variances of allele frequencies, Hardy-Weinberg and linkage disequilibrium, characterization of population structure with F-statistics. Relationship estimation. Statistical genetic aspects of forensic science and association mapping. Concepts illustrated with R exercises.

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ELEMENTS OF R FOR GENETICS AND BIOINFORMATICS - Module 3

Teachers: Prof. William Muir & Prof. Bruce Walsh

WHEN? 3 - 5 September 2014 WHERE? University of Lausanne

INFO AND REGISTRATION: http://www.cuso.ch/-activity/?p28&id81 Description: This module introduces programming skills required for analysis of genetic data, in the R statistical environment.

The module assumes prior knowledge of R. We will briefly review how R scripts are built up from interactive commands, and then discuss how to turn these into R programs based on user-defined functions.

We will cover Rs debugging system, its tools for enhancing efficiency of code, and its methods for handling errors and warnings. In many genomic applications, R

packages already exist to perform specialized statistical and bioinformatic analyses, and we will introduce packages for handling large datasets, and the Bioconductor repository of genomic packages.

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QUANTITATIVE GENETICS - Module 4

Teachers: Prof. William Muir & Prof. Bruce Walsh

WHEN? 8 - 10 September 2014 WHERE? University of Lausanne

INFO AND REGISTRATION: http://www.cuso.ch/-activity/?p28&id84 Description: Quantitative Genetics is the analysis of complex characters where both genetic and environment factors contribute to trait variation. Since this includes most traits of interest, such as disease susceptibility, crop yield, and all microarray data, a working knowledge of quantitative genetics is critical in diverse fields from plant and animal breeding, human genetics, genomics, to ecology and evolutionary biology.

The course will cover the basics of quantitative genetics including: Fishers variance decomposition, covariance between relatives, heritability, inbreeding and crossbreeding, and response to selection. Also an introduction to advanced topics such as: Mixed Models, BLUP, QTL mapping; correlated characters; and the multivariate response to selection.

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MIXED MODELS IN QUANTITATIVE GENETICS - Module 5

Teachers: Prof. William Muir & Prof. Bruce Walsh

WHEN? 10 - 12 September 2014 WHERE? University of Lausanne

INFO AND REGISTRATION: http://www.cuso.ch/-activity/?p28&id82 Description: The analysis of linear models containing both fixed and random effects. Topics to be discussed include a basic matrix algebra review, the general linear model, derivation of the mixed model, BLUP and REML estimation, estimation and design issues, Bayesian formulations.

Applications to be discussed include estimation of breeding values and genetic variances in general pedigrees, association mapping, genomic selection, direct and associative effects models of general group and kin selection, genotype by environment interaction models.

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Caroline Betto-Colliard Department of Ecology and Evolution Biophore Building University of Lausanne CH-1015 Lausanne Switzerland

tel: + 41 21 692 4218 fax: + 41 21 692 4265 Office: 3206

http://www.unil.ch/dee/page55421.html
caroline.betto-colliard@unil.ch

## Lisbon PrimateEvolution Jul1-2

Lisbon Workshop on Behavior, Cognition and Evolution: From Non-Human Primates to Homo Sapiens July 1st-2nd, 2014

Keynote Address byTetsuro Matsuzawa President of the International Primatological Society

Website: http://sites.google.com/site/bceworkshop/ The workshop is organized bythe Applied Evolutionary Epistemology Lab of the Centre for Philosophy of Science of the University of Lisbon & the Centre for Anthropological Research of the Faculty of Human Sciences of the New University of Lisbon; in collaboration with the Portuguese Primatological Association, the Portuguese Ethological Society, CESAM, the Neuroscience Program of the Champalimaud Centre for the Unknown, the Lisbon Zoo, and with the support of the Fund for Science and Technology, Portugal.

appeelannouncements <appeelannouncements@fc.ul.pt>

## Liverpool EnvironmentalOmics Sep15

As series of workshops in the area of environmental omics, including applications to population genomics, will be held at the University of Liverpool in September.

NERC Biomolecular Analysis Facility (NBAF) technology workshops (Metagenomics, population genomics, metabolomics and RNAseq)

Application of the Adverse Outcome Pathway Framework in Environmental Risk Assessment

Biological Mechanisms and Time Series Analyses

http://environmentalomics.org/ieos2014-workshops/ A series of hands-on informatics workshops have been organised that are linked to iEOS2014 and targeted at

Environmental 'Omics users of different levels of experience. Draft outlines of these workshops can be found at the address above.

To apply for a place on any of the workshops, please select the relevant workshop when registering. Places will be confirmed when registration closes and payment will be required only once your place is confirmed. There will be minimal additional costs associated with trainer fees and catering (teas/coffees/lunches) during the workshops, which are payable in addition to your registration cost.

– Prof Steve Paterson Institute of Integrative Biology University of Liverpool Liverpool, L69 7ZB, UK Tel +44 151 795 4521 Fax +44 151 795 4408 Mob +44 797 024 7668 s.paterson@liv.ac.uk http://www.liv.ac.uk/-genomic-research/ S.Paterson@liverpool.ac.uk

## Manchester Morphometrics Nov3-Dec12

Dear colleagues

I am pleased to announce this year's morphometrics course from the University of Manchester. This year's course will run in the six weeks from 3 November to 12 December 2014.

The course information can be found on the following we site: http://www.flywings.org.uk/MorphoCourse Course content: * Data acquisition: the kinds of data and the equipment used to collect them. * Definitions of size and shape * Geometric methods to characterise shape from a configuration of landmark points (Procrustes superimposition) * Statistics of variation, scatter plots, basic multivariate statistics * Principal component analysis * Measurement error and outliers * Shape transformations and 'warping' – the thin plate spline * Analysis of outline shapes * Distinguishing between groups (taxonomy, clinical diagnosis, etc.) * Allometry and size correction * Influence of external factors on shape (ecomorphology, dose-response studies) * Symmetric forms and measurement of asymmetry. * Morphometric inferences on developmental processes * Morphological integration and modularity * Genetics of shape: analyses of resemblance between relatives, QTL analyses. * Phylogeny: reconstructing the evolution of shape

Practice examples: As far as possible, practical exercises are provided to accompany the course content. These practice exercises consist of data sets and explanations on how to run the respective analyses using the MorphoJ software (http://www.flywings.org.uk/-MorphoJ_page.htm). Participants who already have their own data are encouraged to use those and to discuss them as part of the course. I hope there will be a bit of a 'workshop' feel to the course unit.

Group work: Participants will work in small groups to prepare web presentations of possible morphometric studies (wikis prepared by the groups). This activity stimulates discussion and provides a broad overview of the broad range of questions that can be addressed with morphometric methods.

The fee for the course is GBP 320.00.

All prospective participants need to pre-register for the course. The deadline for this is the *30 September 2014*.

For further details and the pre-registration form, see the course web page: http://www.flywings.org.uk/-MorphoCourse Best wishes, Chris

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Christian Peter Klingenberg Faculty of Life Sciences The University of Manchester Michael Smith Building Oxford Road Manchester M13 9PT United Kingdom

Telephone: +44 161 275 3899 Fax: +44 161 275 5082 E-mail: cpk@manchester.ac.uk Web: http://-www.flywings.org.uk Skype: chris_klingenberg

## Paris ExperimentalEvolution Nov17-22

Experimental Evolution: Theory and Current Practices

The International Graduate Program in Life Sciences and the Interdisciplinary Master in Life Sciences (IMaLis) are now accepting applications for their course "Experimental evolution: theory and current practices", to be held at the Institute of Biology of the Ecole Normale Superieure (IBENS), in Paris - France, November 17-22, 2014.

The course will introduce Master and PhD students to the experimental approaches employed to test evolutionary theory. The course will bring together world-renowned researchers to lecture on topics ranging from the historical development of experimental evolution to the evolution of sexuality and the genetic basis of adap-

tation to changing environments. Lectures will be complemented with computer projects on the analysis of population genomics data.

The course is open to students from any institution but will be restricted to a maximum of 15 students. Food and accommodation costs will be fully covered and there is no registration fee. Some travel grants will also be available. Upon successful completion of the course, European students will be awarded 6 ECTS credits.

Faculty: Ivo Chelo (Instituto Gulbenkian de Ciencia, Lisbon Portugal) ; Antony Dean (University of Minnesota, USA); Marie-Anne Felix (IBENS) ; Regis Ferriere (IBENS) ; Thiago Guzella (IBENS) ; Patrick Philips (University of Oregon, USA) ; Paul Rainey (Institute for Advanced Study, New Zealand) ; Christian Schlotterer (Institut für Populationsgenetik, Austria) ; Olivier Tenaillon (Université Paris 7, France); Henrique Teotonio (IBENS); Arjan de Visser (Wageningen UR, The Netherlands).

Sponsoring: Centre National de la Recherche Scientifique, Institut de Biologie de l'Ecole Normale Superieure, Paris Sciences et Lettres, Partner University Fund - French American Cultural Exchange, Vienna Graduate School of Population Genetics.

We will receive applications until October 3, 2014. Applicants should send a letter of motivation and a CV to: teotonio@biologie.ens.fr.

Further information can be found at http://-www.gradprog.biologie.ens.fr/ teotonio@biologie.ens.fr

## PuertoRico ConservationGenetics Jan12-21

*Workshop/course: ConGen2015 - Recent Advances in Conservation Genetics (January 12 - 21, 2015)*

We are pleased to announce the course "ConGen 2015 - Recent Advances in Conservation Genetics."

The American Genetic Association in conjunction with the University of Puerto Rico is presenting a 10 day intensive course January, 12 V 22, 2015. The course will be directed by Dr. Stephen J. OBrien, and taught by renowned scientists in methods, interpretation, and applications of molecular genetic and genomic analyses for conservation of endangered species, who will also share a variety of their personal experiences in this important field.

The course will be held in Rincon, Puerto Rico at the Rincon of the Seas Grand Caribbean Hotel.

The application deadline is September 15, 2014.

Information about the course, participating faculty, venue, and applications can be found at the following link:

http://congen2015.com/ – Klaus-Peter Koepfli, Ph.D. Visiting Scientist *Smithsonian Conservation Biology Institute* National Zoological Park Washington, DC 20008 USA Mobile (USA): +1 310 903 0197 E-mail: KoepfliK@si.edu OR klauspeter.koepfli527@gmail.com

*Theodosius Dobzhansky Center for Genome Bioinformatics* Saint Petersburg State University 41A Sredniy Prospekt St. Petersburg 199034 RUSSIA Mobile (Russia): +7 981 105 7785 Skype ID: klauspeter.koepfli

<klauspeter.koepfli527@gmail.com>

Klaus-Peter Koepfli <klauspeter.koepfli527@gmail.com>

## Strasbourg ProteinEvolutionAnalysis Sep7

ECCB'14 - Tutorial T05 "Protein Evolution Analysis: on the Use of Phylogenetic Trees"

Tutorial of ECCB 2014, Strasbourg, France. September 7th, 2014

Website: http://www.eccb14.org/program/tutorials/-pea Important dates:

- ECCB/Tutorial Early registration: May 12 - August 1st, 2014 - ECCB/Tutorial Late registration: August 2 - August 29, 2014 - Tutorial date: Sunday, September 7th, 2014.

Motivation

Homologous proteins, that share a common ancestor, can be classified into families. These homologs can be orthologs, that were separated by a speciation event, or paralogs, that were separated by a duplication event. Within a protein family, all members are related by a phylogenetic tree, which consists of a root (the last common ancestor of the protein family), nodes (which are speciation/duplication events), branches (whose lengths correspond to the number of substitutions) and tips (which correspond to modern sequences). The tree is helpful for inferring the evolutionary history of the

protein family. For example, we can reconstruct the ancestral sequences at each node of the tree. These ancestral sequences can be used for homology modelling, to reveal the ancestral 3D structures, or synthesised in vitro. Or we can compare trees to reveal similar evolutionary history between protein families (co-evolution). Manipulating tree topologies are complex operations that require tools to perform operations such as reading, pruning, collapsing, rerooting. These operations can be done with programs with graphical user interfaces (GUI). However, in the area of large-scale data, in which hundreds or thousands of trees may be manipulated, it is impractical to use such programs. To this end, new software/libraries have been developed to deal with such large data sets in an automated manner.

Goal

This tutorial will present recent concepts regarding the evolution and adaptation of protein sequences. It will be divided into three sections, in which we will present methods relating to the use of phylogenetic trees to infer protein function. These sections will be 1) using scripts to manipulate trees, 2) using ancestral sequence reconstruction to infer history of a protein family and 3) the detection of coevolution between protein families. Each section will have an introduction explaining the concepts underlying any analysis methods, and a discussion of the power and limitations of different methods and tools used to explore these concepts and which participants will learn how to use during the practical for that section.

Outline

The first part will focus on tools to detect adaptation in protein sequences. It will start with a brief introduction on multiple alignment and phylogenetic trees followed by a more detailed presentation of tools available to estimate selective pressures and detect adaptation in protein sequences with CodeML / PAML. The second part will focus on the reconstruction of ancestral sequences and ancestral structures by homology modelling. The third part will focus on the identification of co-evolution between protein families. The organiser will provide protein datasets, or participants can bring their own sequences. Then, they will be able to use the different programs/libraries in a practical way.

This tutorial will be in three parts (more info on the website):

1) Performing phylogenetic analyses with Biopython

2) Ancestral sequence reconstruction and homology modelling

3) Studying molecular co-evolution

Level: Introductory

Schedule (Sunday, September 7th):

Morning session: Performing phylogenetic analyses with Biopython. 9:00 Talk (45min): Performing phylogenetic analyses with Biopython (B. Invergo, EBI) 9:45 Practical (30min): Performing phylogenetic analyses with Biopython (B. Invergo, EBI) 10:15 Coffee break 10:45 Practical (1h30): Performing phylogenetic analyses with Biopython (B. Invergo, EBI) 12:15 Lunch

Afternoon session: ancestral sequence reconstuction and molecular co-evolution.

13:15 Talk (30min): Ancestral sequence reconstruction (R. Studer, EBI) 13:45 Practical (1h30): Ancestral sequence reconstruction (R. Studer, EBI) 15h:15: Coffee break 15h45: Talk (30 min): Studying molecular co-evolution (D. Ochoa, EBI) 16h15: Practical (45min): Studying molecular co-evolution (D. Ochoa, EBI) 17:00 End

Intended audience:

- Evolutionary biologists, biochemists, computational biologists, structural biologists.

Possible prerequisites:

- Unix command line. - We strongly encourage participants to learn the basics of the Python programming language.

Organisers:

Brandon Invergo - EMBL-EBI, Cambridge, UK (invergo [at] ebi.ac.uk) David Ochao - EMBL-EBI, Cambridge, UK (ochoa [at] ebi.ac.uk) Romain Studer - EMBL-EBI, Cambridge, UK (rstuder [at] ebi.ac.uk)

– Romain Studer EMBL-EBI Wellcome Trust Genome Campus Hinxton Cambridgeshire CB10 1SD, UK

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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

## UAdelaide AdvancedBayesianPhylogenetics Nov17-21

The University of Adelaide, South Australia, 17th to ©21st November 2014.

The Australian Centre for Evolutionary Biology & Biodiversity is convening a workshop targeted at Postdocs and final year PhD students with a solid working knowledge of Bayesian phylogenetic inference, based on morphological or molecular sequence data.

The workshop will be led by: Fredrik Ronquist, Swedish Museum of Natural History; Mike Lee, University of Adelaide / South Aust. Museum; Simon Ho, University of Sydney; Seraina Klopfstein, University of Adelaide; Simon Tierney, University of Adelaide.

Topics will canvas current and novel methods in phylogenetics, including: introduction to RevBayes; Bayesian philosophy & priors; MCMC procedures; model choice; strict/relaxed clock models; tree calibration QC; total evidence dating.

$200 registration includes computing facilities, catered lunches & welcome dinner.

We are currently seeking expressions of interest - maximum of 30 people.

Please email simon.tierney@adelaide.edu.au stating current position & relevant experience.

Closing date for registering is 15th July 2014.

simon.tierney@adelaide.edu.au

## UYucatan Mexico InfectiousDiseaseEvolution Nov17-21

CEBA 2nd Thematic school : 'Advanced methods and applications in Ecology, Evolution and Control of Infectious Diseases (CEBA-EECID), with a focus on Neotropical infections', 17 - 21 November 2014, Autonomous University of Yucatan, Merida, Mexico

As part of its training programme, the LabEx CEBA organizes its second Thematic school on the field of ecology, evolution and control of infectious diseases (EECID). During one week, a dozen lectures and researchers will interact with up to 18 PhD students and postdoctoral fellows, originating from all around the world, on major recent advances in disease control and optimization of public health strategies in the fight against infections.

CV and letters of motivation should be sent as two pdf files before September 7th, 2014 to jean-francois.guegan@ird.fr with the header 'Application CEBA EECID'. On September 7th, 2014 registration will be closed.

For more details, please check the Summer school website: http://www.labex-ceba.fr/en/thematic-school-2014/ Best regards,

On behalf of the organizing committee,

Benjamin Roche

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# Instructions

Instructions: To be added to the EvolDir mailing list please send an email message to Golding@McMaster.CA. At this time provide a binary six letter code that determines which messages will be mailed to you. These are listed in the same order as presented here — Conferences; Graduate Student Positions; Jobs; Other; Post-doctoral positions; WorkshopsCourses. For example to receive the listings that concern conferences and post-doctoral positions this would be 100010. Messages are categorized on the basis of their subject headings. If this subject heading is not successfully parsed, the message will be sent to me at Golding@McMaster.CA. In addition, if it originates from 'blackballed' addresses it will be sent to me at Golding@McMaster.CA. These messages will only be read and dealt with when I have time. The code 000000 has all channels turned off and hence gets only a once monthly notifcation of the availability of a monthly review pdf file.

To be removed from the EvolDir mailing list please send an email message to Golding@McMaster.CA. Note that

'on vacation', etc, style messages are automatically filtered and should not be transmitted to the list (I hope), but should you wish to avoid the e-mail's your code can be temporarily changed to 000000.

To send messages to the EvolDir direct them to the email evoldir@evol.biology.McMaster.CA. Do not include encoded attachments and do not send it as Word files, as HTML files, as LaTeX files, Excel files, etc. ... plain old ASCII will work great and can be read by everyone. Add a subject header that contains the correct category "Conference:, Graduate position:, Job:, Other:, Postdoc:, Workshop:" and then the message stands a better chance of being correctly parsed. Note that the colon is mandatory.

The message will be stored until the middle of the night (local time). At a predetermined time, the collected messages will be captured and then processed by programs and filters. If the message is caught by one of the filters (e.g. a subject header is not correctly formated) the message will be send to me at Golding@McMaster.CA and processed later. In either case, please do not expect an instant response.

# Afterword

This program is an attempt to automatically process a broad variety of e-mail messages. Most preformating is collapsed to save space. At the current time, many features may be incorrectly handled and some email messages may be positively mauled. Although this is being produced by LaTeX do not try to embed LaTeX or TeX in your message (or other formats) since my program will strip these from the message.