E v o l D i r

August 1, 2013

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

Foreword

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

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

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

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Conferences

CNRS France DrosophilaEvolution

Post Doctoral Position on the Evolutionary Biology of Social transmission in Drosophila (CNRS, France)

A 2 year postdoctoral position is available in the group Evolution and Plasticity of Cognitive Capacities (Dir. Frederic Mery) of the Lab Evolution Genome and Speciation (LEGS, CNRS) in Gif sur Yvette (France) to work on the evolutionary biology of social transmission in Drosophila.

Social learning has been studied mostly in fish, birds and mammals including humans. In insects, social learning has been unambiguously demonstrated in social Hymenoptera and recent evidence show that even non-eusocial insects such as /Drosophila/ can copy the behaviour of others (see Battesti et al 2012). Compared to individual learning, which requires a trial and error period in every generation, social learning can potentially result in stable transmission of behavior across generations, leading in some species to cultural tradition. Despite the potential importance of social transmission on animal behavior relatively little is known about the processes which may facilitates or prevent this transmission and the relationship between social network structure and efficiency of social transmission.

The goal of this project is to study experimentally the genetic and socio-environmental factors affecting social transmission. In collaboration with the evolutionary ethology group of the university of Strasbourg (Dr Cedric Sueur),we will also integrate social network analysis by video tracking experiments. Our ultimate goal is to understand whether a relationship between social network structures and dynamic can reflect the efficiency of social transmission, i.e. can we use social network analysis in order to predict social transmission of information and ultimately the evolutionary trajectory of a group?

The successful candidate should be highly motivated and will develop his/her own experimental project on this general topic. Candidates should have a PhD in evolutionary biology or animal behavior science. Good experience with invertebrate behavioral experiment will be highly appreciated. Some experience with Drosophila behavior and genetics would help but are not required. No preexisting knowledge of French is required, although some knowledge makes living in the lab easier. Gif sur Yvette is located 40 min from Paris downtown.

*Salary/funding**: *The salary will be in accordance with French national regulations for post-doctoral researchers and depends on age and experience (net income is around 2000 Euros per month)**

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*Term of Appointment**: *The initial appointment will be for 2 years and will begin on 1 December 2013.**

**

*Application Deadline**: *15 September 2013**

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*Comments**: *To apply, send your CV and a letter

describing your research interests and some ideas for a project to Frederic Mery:Frederic.mery@legs.cnrs-gif.fr. Arrange for two letters of recommendation to be sent to the same address.

–

Frederic Mery Laboratoire Evolution, Genomes et Speciation CNRS - Bat 13 Avenue de la Terrasse F-91198 Gif sur Yvette Cedex France

E-mail: Frederic.Mery@legs.cnrs-gif.fr Phone (Office): (33) 1 69 82 37 32 Phone (Lab): (33) 1 69 82 38 63 Fax: (33) 1 69 82 37 36

Web: http://epcc-drosophila.blogspot.com/ Frederic Mery <Frederic.Mery@legs.cnrs-gif.fr>

Canberra Biogeography Jan7-10

CALL FOR ABSTRACTS

Abstract submission is open for the 2014 INTERNATIONAL BIOGEOGRAPHY SOCIETY EARLY CAREER CONFERENCE, organised jointly by the International Biogeography Society (IBS) (http://www.biogeography.org/), the ANU Centre for Macroevolution and Macroecology (http://-macroevoeco.com/) and the ANU-CSIRO Centre for Biodiversity Analysis (http://cba.anu.edu.au/).

The conference will take place in Canberra, Australia, between the 7th and the 10th of January 2014, and aims to bring together early career researchers, along with more experienced scientists, working on many aspects of biogeography.

ABSTRACT SUBMISSION DEADLINE HAS BEEN EXTENDED TO 31 AUGUST 2013.

To submit your abstract, please visit: http://-www.biogeography.org/html/Meetings/2014ECC/-index.html CONFIRMED KEYNOTE SPEAKERS: Prof Craig Moritz (ANU) Dr Catherine Graham (Stony Brook) Dr Simon Ferrier (CSIRO) Dr Michael Kearney (UniMelb)

THE FOLLOWING FOUR WORKSHOPS WILL BE RUN DURING THE CONFERENCE: 1. Introduction to species distribution modelling 2. Modelling compositional turnover using generalised dissimilarity modelling 3. An Introduction to R for beginners 4. Free your mind: Model comparison and model testing in historical biogeography with the R package 'BioGeoBEARS'

REGISTRATION FOR THE CONFERENCE AND WORKSHOPS IS NOW OPEN. PLEASE REGISTER BEFORE 31 OCTOBER 2013.

For more information about the conference, please visit the conference website.

Student participation will be supported by awards offered by the IBS. To apply for a student award, please follow the instructions given on the website.

We look forward to welcoming you to Canberra in January 2014!

The ANU Organising Committee

Haris Saslis-Lagoudakis Peter Cowman Dan Warren Dan Rosauer Renee Catullo Marcel Cardillo

ibsconference2014@gmail.com @ibs2014

IBS Early Career Conference 2014 <ibsconference2014@gmail.com>

Cardiff Omics Sep9-11

FIRST INTERNATIONAL ENVIRONMENTAL 'OMICS SYNTHESIS CONFERENCE

Cardiff University, UK, 9-11 September 2013

http://www.environmentalomics.org/ieos2013 FINAL CALL - ABSTRACTS AND REGISTRATION

ABSTRACT DEADLINE: 31 July 2013 REGISTRATION DEADLINE: 1 August 2013

We are pleased to announce the last few days to submit an abstract or register to attend the first ever 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. 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.

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

http://environmentalomics.org/ieos_registration
KEYNOTE SPEAKERS:

- ESKE WILLERSLEV, Natural History Museum of Denmark - JACK GILBERT, University of Chicago - JOHN COLBOURNE, University of Birmingham

INVITED SPEAKERS:

Archeaological 'Omics: Learning from the past to inform the future - TERRY BROWN, University of Manchester - ROBIN ALLABY, University of Warwick

Ecological 'Omics: From biodiversity to molecular adaptation - ANDREW WHITEHEAD, University of California, Davis - CAROLE GOBLE, University of Manchester

Epigenetics: From molecules to phenotypes - KEVIN CHIPMAN, University of Birmingham - PETER KILLE, Cardiff University - DANIEL BARKER, University of St Andrews

Evolutionary 'Omics: Phylogenetics and the Tree of Life - SANDRA BALDAUF, Uppsala University - MARGARET RILEY, University of Massachusetts Amherst - MIKE BRUFORD, Cardiff University

Integrated and Systems 'Omics: Towards environmental systems biology - JOE SHAW, Indiana University - FRANCESCO FALCIANI, University of Birmingham

Community Ecology: Community profiling (metagenomics and metabarcoding) to function - DOUGLAS YU, University of East Anglia - PHILIP POOLE, John Innes Centre

PROGRAM: http://environmentalomics.org/-ieos_agenda SPONSORED in part by the Natural Environment Research Council, UK (NERC); the Science and Technology Facilities Council, UK; Thermo Fisher Scientific; Cambio; and BGI.

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

Daniel Barker Lecturer in Biology, University of St Andrews db60@st-andrews.ac.uk

On behalf of the organising committee: Peter Kille, University of Cardiff; Mesude Bicak and Tracey Timms-Wilson, Centre for Ecology & Hydrology; Daniel Barker, University of St Andrews; Claire Gachon, Scottish Association for Marine Science; and Mark Viant, University of Birmingham.

http://www.environmentalomics.org/ieos2013 Daniel Barker http://biology.st-andrews.ac.uk/staff/db60 The University of St Andrews is a charity registered in Scotland : No SC013532

db60@st-andrews.ac.uk

Heraklion MediterraneanMarineBiodiversity Oct7-9 2

Conference: "Mediterranean marine biodiversity in view of climate change and the invasion of alien species"

http://conference2013.marbigen.org/index.html Heraklion, Crete, Greece

7^th to 9^th of October, 2013

The Institute of Marine Biology, Biotechnology and Aquaculture (*IMBBC*) of the Hellenic Centre for Marine Research (*HCMR*) announces the conference on *"/Mediterranean marine biodiversity in view of climate change and the invasion of alien species/"* to be held in the premises of Heraklion Chamber, Crete, Greece, from 7^th to 9^th October 2013. The conference will be organized in the context of the EU (FP7-REGPOT-2010-1) project "/Supporting Research Potential for Marine Biodiversity and Genomics in the Eastern Mediterranean/" (MARBIGEN, http:/-/www.marbigen.org/).

The conference aims to bring together researchers of different fields in order to promote the multidisciplinary and integrated research regarding the response of biodiversity to the climatic change and the impact of the invasion of alien species in the Mediterranean and adjacent regions.

More information can be found on the conference website http://conference2013.marbigen.org/index.html . We look forward to welcoming you in Heraklion, Crete for a scientifically stimulating and socially enjoyable meeting.

With best regards,

On behalf of the Organizing Committee

Dr. Antonios Magoulas

MARBIGEN Co-ordinator

Dr. Antoniou Aglaia (Cilia) Institute of Marine Biology and Genetics (IMBG) Hellenic Centre for Marine Research (HCMR) Gournes Pediados, P.O.Box 2214, 71003, Iraklio, Crete, Greece Tel.: +30 2810 337826 Fax: +30 2810 337820

Cilia Antoniou <antoniou@hcmr.gr>

Lisbon EvolutionBehaviour Oct24-25

Dear Ethologists and Enthusiasts,

The next meeting of the Portuguese Society for Ethology will be held at the Champalimaud Center for the Unknown, during the 24th and 25th of October 2013.

The meeting will bring together scientists from several fields, including ecology, evolution, development, physiology, psychology and neuroscience, spanning a wide range of model organisms, from invertebrates to vertebrates. This meeting aims to present an integrated overview of animal behavior, by bringing together investigators and students working in Portugal and abroad.

Registration is open. *Abstract submission is open till July 31st!*

For more information please visit: http://-www.spe2013congresso.com/ . We hope to see you at the Champalimaud Center for the Unknown!

The organizing committee,

Marta Moita Susana Lima

anaritaponce@gmail.com

Marseilles 17thEvolutionaryMeeting Sep17-20 3

The program of the 17th evolutionary biology meeting at Marseilles will be available the fourth of July late registration started the first of july see : http://sites.univ-provence.fr/evol-cgr/ more info contact: egee@univ-provence.fr

all the best Pierre

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

NHM London YoungSystematists Nov29

15th YOUNG SYSTEMATISTS' FORUM

Friday 29 November 2013, 9 am

Venue: Flett Lecture Theatre, Natural History Museum, London, UK

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

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

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

Abstracts must be submitted by e-mail in English no later than Friday 18 October 2013. The body text should not exceed 150 words in length. If the presentation is co-authored, the actual speaker (oral) or presenter (poster) must be clearly indicated in BOLD text. Institutional addresses should be given for all authors. All registered attendants will receive further information about the meeting, including abstracts, by e-mail one week in advance. This information will also be displayed on the Systematics Association website (www.systass.org).

Dr Ellinor MICHEL Department of Life Sciences The Natural History Museum Cromwell Road SW7 5BD London UK tel: +44-207-942-5653 or - 5516

Homepage: http://www.sorayavillalba.com/ellinor/-

index.php The Nyanza Project: Research Training in Tropical Lakes -

http://www.geo.arizona.edu/nyanza/index.html The Natural History Museum - Global Reach http:/-/www.nhm.ac.uk/nature-online/science-of-natural-history/science-at-the-museum/our-global-reach/ The Gastropods of Lake Tanganyika: Diagnostic key, classification & notes on the fauna

http://www.limnology.org/pubs/-index.shtml#occasional NHM Homepage: http://www.nhm.ac.uk//research-curation/staff-directory/zoology/cv-7437.html Ellinor Michel <e.michel@nhm.ac.uk>

Roscoff France EvolutionCancer Nov2-6 2

*Jacques Monod Conference V and Evolutionary Perspectives in Cancer - Roscoff (Brittany), France, November 2-6, 2013

Deadline for registration: August 1st, 2013*

Cancer is a disease of opportunity, associated with clonal evolution, expansion and competition within the body. Specifically, somatic cellular selection and evolution are the fundamental processes leading to malignancy, metastasis and resistance to therapies. The Jacques Monod Conference and Evolutionary Perspectives in Cancer aims to promote this emerging discipline by addressing some of the most important questions about cancerogenesis. The conference will cover 3 themes: interspecific patterns and processes, progression, and therapies.

Please note that participation at this conference is not limited to research on carcinogenesis: we will consider applications from scientists with affinities towards the themes of the conference, and working on related topics from ecology and the evolutionary sciences, including social evolution, evolution of multicellularity, resistance management, evolutionary medicine of diseases, and species invasions.*

*Jacques Monod Conferences organized by CNRS, are known for the high scientific quality of the talks and discussions, in a relaxed atmosphere.

*Registration fee (includes lodging, meals and conference banquet)

*400 £á for PhD students

520 £á for other participants

Application for registration:

The total number of participants is limited to 115 and all participants are expected to attend for the whole duration of the conference.

Scientists interested in the meeting should send the proposed title and abstract of their presentation. Postdocs and PhD students should send in addition: their curriculum vitae, and a list of their main publications for the 3 last years.

Applications should be sent to the Chairperson of the conference (mhochber@univ-montp2.fr) before August 1st. Except in some particular cases approved by the Chairperson, it is recommended that all selected participants present their work during the conference, either in poster form or by a brief in- session talk. The organizers choose the form in which the presentations are made. No payment will be sent with the application. Information on how and when to pay will be mailed in due time to those selected.

Thank you in advance for forwarding this announcement to potentially interested colleagues

Michael Hochberg <mhochber@univ-montp2.fr>

Sitges Spain HumanEvolution Mar16-18

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

Abstract submission deadline: November 8, 2013 Early registration deadline: January 6, 2013

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

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

Our Cell Symposium Evolution of Modern Humans From Bones to Genomes pays homage to this revolution by bringing together an uniquely broad mix of world-

class researchers who study the evolution of our species from various angles from palaeoanthropology to genetics, genomics and archaeogenetics, through to the study of cultural and cognitive processes.

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

Session Topics:

Human genetics and genomics

Adaptation

Archaeogenetics

Palaeoanthropology

Cognition and culture

Confirmed Speakers

Ofer Bar-Yosef, Peabody Museum, Harvard University, USA Anna DiRienzo, University of Chicago, USA Wolfgang Enard, Ludwig-Maximilans University Munich, Germany Michael Hammer, University of Arizona, USA Jean-Jacques Hublin (organiser), Max-Planck-Institute for Evolutionary Anthropology, Leipzig, Germany Mathias Jakobsson, Uppsala University, Sweden Kevin Laland, University of St. Andrews, UK Carles Lalueza-Fox (organiser), Institut de Biologia Evolutiva, Barcelona, Spain Svante Pääbo, Max-Planck-Institute for Evolutionary Anthropology, Leipzig, Germany Mark Pagel, Reading University, UK Chris Stringer, Natural History Museum, London, UK Sarah Tishkoff, University of Pennsylvania, USA John Novembre, University of Chicago, USA Cliff Tabin, Harvard University, USA Tim Weaver, University of California, USA Eske Willerslev, Copenhagen University, Denmark

Organizing Committee

Florian Maderspacher, Senior Editor, Current Biology Paul Craze, Editor, Trends in Evolution and Ecology Carles-Lalueza Fox, Institut de Biologia Evolutiva, Barcelona Jean-Jacques Hublin, Max-Planck Institute for Evolutionary Anthropology, Leipzig

Marie Treadwell Marketing Communications Manager Elsevier/Cell Press Email: marie@treadwell.me.uk

Marie Treadwell <marie@treadwell.me.uk>

Stresa Italy AquaticMicrobialEvolution Sep8-13

The 13th SAME (1st EMBO Conference on Aquatic Microbial Ecology) will be held in beautiful Stresa (Italy) from 8 to 13 Sept 2013. This year SAME put special interest in the relation between ecology and evolution of aquatic microbial communities, including host-pathogen interactions, symbiosis, and experimental ecology. The full program is already available on the conference website www.same13.eu The number of convenors already doubled the usual size of a SAME meeting and is running towards 500 lucky participants from all over the world. They will join a very special conference, with a single plenary oral session introduced by Farooq Azam and Sinead Collins and closed by a thrilling lecture by Roman Stocker. A very special attention is given to students that in the convivial atmosphere of SAME can present their studies and interact for a week with the large community of microbail ecolgist and evolutionary biologists. If you do not want to lose the chance to attend SAME13 just register through the online registration form!

Further questions at: same13@ise.cnr.it

See you in Stresa!

Gianluca Corno chair SAME13

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Gianluca Corno <g.corno@ise.cnr.it>

Tahoe California MicrobeInteractions Jan26-30

Keystone Symposia's 2014 Conference on [3]Mechanisms and Consequences of Invertebrate-Microbe Interactions[2]

Submit an abstract and register for Keystone Symposia[1]s meeting on [3]Mechanisms and Consequences of Invertebrate-Microbe Interactions,[2] taking place January 26-30, 2014 at Granlibakken Resort in Tahoe City, California, USA.

The three-day conference will:

* Host scientists ranging from molecular biologists to evolutionary ecologists and studying diverse aspects of invertebrate-microbe interactions in different systems (e.g., squid, leeches, flies, nematodes, bees);

* Build a comprehensive understanding of host-microbe interactions, which is integral to limiting the ability of organisms, particularly insects, to spread diseases that

impact human health and destroy crops;

* Integrate mechanistic, genomic, ecological, evolutionary and applied approaches.

Scholarships are available to students and postdoctoral fellows. Short talks will be selected from submitted abstracts. Along with poster presentations, these represent a great opportunity to gain exposure for one[1]s work.

Deadlines:

* Scholarship Application ' September 26, 2013

* Discounted Abstract ' September 26, 2013

* Abstract ' October 30, 2013

* Discounted Registration ' November 25, 2013

To register and for more information, please visit www.keystonesymposia.org/14A7 Nicole Gerardo Assistant Professor Emory University Department of Biology

ngerard@emory.edu

UAberdeen MovementDispersal Nov11-12

The first Movement and Dispersal International Conference will be held on 11-12 November 2013 in Aberdeen. This conference aims to initiate dialogue and synthesis between the fields of dispersal biology and movement biology. We particularly welcome participants who work on evolutionary questions that relate to the evolution of dispersal and/or movement behaviours or who focus on questions related to the evolutionary consequences of different dispersal and/or movement behaviours. We also hope that the meeting will provide an opportunity for people working on the causes and consequences of dispersal and movement in terrestrial, marine and freshwater environments to meet and share ideas and methods. For more information please visit: http://-www.abdn.ac.uk/events/mad-2013/ "Travis, Justin M. J." <justin.travis@abdn.ac.uk>

UGroningen IndividualDifferences Nov1-3

Second announcement

International Conference on Individual Differences

(20th KNDV Zoology Conference)

1-3 November 2013

Groningen, The Netherlands

DEADLINES

***** Discounted registration fee: 31 August 2013 *****

****** Abstract submission: 1 August 2013 ******

http://www.rug.nl/fwn/indiv This meeting aims to bring together different perspectives on the importance, mechanisms, function and evolution of consistent individual differences at different levels of biological organisation.

Program runs from Friday November 1st (welcome reception and opening lecture) to Sunday November 3rd

Plenary speakers:

Stephen Suomi (National Institute of Child Health & Human Development)

Renee Duckworth (University of Arizona)

Jonathan Seckl (University of Edinburgh)

Distinguished Zoologist Lecture:

Judy Stamps (University of California at Davis)

In addition to the plenary lectures, we welcome oral and poster contributions to the following seven symposia, that will be introduced by the following speakers:

. Individuality in neurobiology - James Goodson, Bloomington, USA

. Individuality in chronobiology - Martha Merrow, Muenchen, D

. Individuality in energetics - Neil Metcalfe, Glasgow, UK

. Individuality in behaviour - Niels Dingemanse, Muenchen, D

. Individuality in ecology, evolution and biodiversity - Ilkka Hanski, Helsinki, Fi

. Individuality in aging - Jean Michel Gaillard, Lyon, Fr

. Individuality: applications and implications (welfare, biomedicine and conservation) - Mike Mendl, Bristol, UK

We also invite oral and poster contributions to a general symposium.

Please submit your abstract before August 1st to indiv@rug.nl

For more information about abstract preparation and submission see: www.rug.nl/fwn/indiv Jointly organised by the Groningen Centres for Behaviour and Neurosciences (www.rug.nl/research/cbn) and Ecological and Evolutionary Studies (www.rug.nl/research/cees/-), under the auspices of the Royal Dutch Zoological Society (www.kndv.nl(http://www.rug.nl/fwn/indiv)).

Organising & scientific committee:

Ton Groothuis (Chair)

Sietse de Boer

Christiaan Both

Gertjan van Dijk

Marlies Hof

Roelof Hut

Martine Maan

Jaap Koolhaas

Peter Korsten

Pleunie Kraak

Simon Verhulst

Franjo Weissing

Eddy van der Zee

Groningen Congress Bureau

m.e.maan@rug.nl

Vienna PopGenetics Nov1-2 reminder

REMINDER

MIND THE GAP 4

Bridging the gap between theoretical and empirical population genetics

Vienna, Austria 1st and 2nd of November, 2013

The Vienna Graduate School of Population Genetics and the DFG Priority Programme "Probabilistic Structures in Evolution", Bielefeld, Germany, are proud to announce the fourth MIND THE GAP conference to be held the 1st and 2nd of November 2013 in Vienna, Austria.

MIND THE GAP aims at bringing together theoretical and empirical population geneticists. This conference is the fourth meeting in a series of conferences held in Freiburg (2009), Plön (2010), and Cologne (2011).

As in these past meetings, there are different main topics for this conference. This year's themes are:

Viral and Predictive Evolution Experimental Evolution Signatures of Complex Selection Introgression, Hybrid Zones, and Clines

For more detailed information please refer to our regularly updated programme

The current list of invited speakers includes:

Martina Baar, University of Bonn Nicolas Bierne, University II of Montpellier Simon Boitard, INRA, Toulouse Luis-Miguel Chevin, Centre for Functional and Evolutionary Ecology, CNRS, Montpellier Michael Desai, Harvard University Philip Gerrish, University of New Mexico Adrian Gonzalez Casanova, TU Berlin Toni Gossmann, University of Sussex Sandra Kliem, University of Duesburg Joachim Krug, University of Cologne Michael Laessig, University of Cologne Henrique Teotónio, University of Lisbon Jarle Tufto, Norwegian University of Science and Technology Anton Wakolbinger, Goethe-Universität Frankfurt

Attendance to the conference will be free of charge. There are a few remaining speaker positions for the conference for which we invite you to apply. Participants are welcome to bring a poster.

All registrants are asked to download the registration form from the conference webpage (http://-/www.popgen-vienna.at/news/mindthegap.html) and submit the completed registration form to mtg4nov2013(at)gmail.com

The deadline for registration is Sunday, 14th July 2013.

We strongly advise participants to arrive at the latest on the evening of Thursday, October 30th and to stay at least until Sunday, November 3rd.

Conference venue: Department of Mathematics, University of Vienna New institute building at Rossauer Lände 3 in the 9th district of Vienna.

Google Maps location

Public transport: Metro lines U2, U4 Tram lines D, 1 and 31

We would like to thank our sponsors: DFG FWF

Programme (please refer to the webpage for updates)

Thursday evening: Arrival

Friday 9.00/10.00-12.00: Viral and predictive evolution Philip Gerrish, University of New Mexico Sandra Kliem, University of Duesburg Michael Lässig, University of Cologne

Friday 13.00-16.00: Experimental Evolution Michael Desai, Harvard University Adrian Gonzalez Casanova, TU Berlin Joachim Krug, University of Cologne Henrique Teotonio, University of Lisbon

Friday 17.00-19.00: Poster Session

Saturday 9.00-12.00: Signatures of Complex Selection Martina Baar, University of Bonn Simon Boitard, INRA, Toulouse Luis-Miguel Chevin, Centre for Functional and Evolutionary Ecology, CNRS, Montpellier Toni Gossmann, University of Sussex

Saturday 13.00-15.00: Introgression, Hybrid Zones, and Clines Nicolas Bierne, University II of Montpellier Jarle Tufto, Norwegian University of Science and Technology

Saturday 15.00: Closing Session Anton Wakolbinger, Goethe-Universtität Frankfurt

Saturday 18.00: Conference Dinner

Sunday: Departure

Vienna Graduate School of Population Genetics Vienna, Austria

conference webpage: http://www.popgen-vienna.at/news/mindthegap.html email adress: mtg4Nov2013(at)gmail.com

ilse.hoellinger@univie.ac.at

GradStudentPositions

F Frankfurt ExperimentalPopulationGenomics

PhD or part time (66%) Postdoc position on Experimental Population Genomics for 36 months is available in the Molecular Ecology Lab of Markus Pfenninger, Biodiversity and Climate Research Centre, Frankfurt/Main, Germany (DFG funded project)

I am looking for a highly motivated and independent researcher to study the genomic basis of local climate adaptation in the non-biting midge Chironomus riparius. Local adaptation to varying environmental conditions is a key process for the evolution of biodiversity. Ambient temperature is a crucially important factor for ectothermic organisms, because it determines the rate of metabolic processes and thus all processes from development to reproduction. This suggests that populations of a species should adapt to prevailing local temperatures. However, little is known about the genomic basis of local metabolic temperature adaptation,

particularly in non-model organisms. In this project, we strive to unveil the genomic basis of observed local adaptation in an ecologically important species, the non-biting midge (Chironomus riparius Meigen 1804) to a temperature gradient across Europe. To this end, we combine ecological experiments, genome scans and repeated experimental evolution in an innovative fashion. The position thus requires taking field-trips to collect wild C. riparius populations, establishing lab populations, performing common garden experiments in experimental facilities, preparing and conducting population genomic analyses and publication of the data.

Applicants must hold a Diploma/Master degree and prove advanced education in two or more of the following fields: genomics, bioinformatics and/or population genetics. Proficiency in English is required. Experience with ecological experiments is an asset. The Biodiversity and Climate Research Centre supports equal opportunity of men and women and therefore strongly invites women to apply. Equally qualified handicapped applicants will be given preference. The type of handicap should not prevent work needed to conduct the research. The duty station will be Frankfurt am Main, Germany. The employer is the Goethe-University. Salary and benefits are according to a public service position in Germany (TV-G-U E13, 65%). Applications (CV, letter of motivation, and contact of two referees) should be sent to Pfenninger@bio.uni-frankfurt.de until the 15th of July 2013. The position is for three years. Due to the biology of the midges, starting date is as soon as possible.

The Biodiversity and Climate Research Centre (BiK-F) has been founded by the Senckenberg Gesellschaft fuer Naturforschung, the Goethe-University Frankfurt am Main, and additional partners. It is funded by the Federal State of Hessen through its Initiative for the Development of Scientific and Economic Excellence (LOEWE). The mission of the centre is to carry out internationally outstanding research on the interactions of biodiversity and climate change at the organism level.

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

pfenninger@bio.uni-frankfurt.de

LavalU EvolSystemsBiol

PhD and postdoctoral positions in evolutionary systems biology at Laval University

One PhD (4 years) and one postdoctoral position (2-3 years) are available in the Landry Laboratory at Laval University (http://www.bio.ulaval.ca/landrylab). The candidate will work on a project funded by the Canadian Institutes of Health Research that aims at understanding the molecular and evolutionary mechanisms of robustness of protein networks and protein complexes using large-scale proteomics approaches. 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, microbiology, biochemistry and/or proteomics. The projects are mainly experimental but candidates with strong computational backgrounds who are willing to learn and perform experimental research are encouraged to apply.

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. PhD candidates should also include a low-resolution copy of official academic transcripts. The positions will remain available until filled. Starting dates could be between September 2013 and Mai 2014.

Christian Landry, PhD Associate professor CIHR New Investigator Département de Biologie Institut de Biologie Intégrative et des Systèmes/PROTEO Local 3106, Pavillon Charles-Eugène-Marchand 1030, Avenue de la Médecine Université Laval Québec (Québec) G1V 0A6 Canada

http://www.bio.ulaval.ca/landrylab Téléphone: 418-656-3954 Télécopieur: 418-656-7176

Christian Landry <Christian.Landry@bio.ulaval.ca>

Louvain Belgium ButterflyEvoDevo

PhD position in Evolutionary Biology

*at the Biodiversity Research Centre – Earth and Life

Institute*

Université catholique de Louvain (UCL)

1348, Louvain-la-Neuve, BELGIUM

**

Project Title

Molecular developmental basis of a morphological evolutionary novelty involved in olfactory communication, the 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/ species^1- 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 noveltyspecific 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 Lepidopteran-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 approaches^5 . 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 field.

*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 (submission deadline: *September 3rd 2013*) and an oral interview in Brussels (October-November 2013), 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 10^th , 2013*. 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

— / —

mcmaster.ca/~brian/evoldir.html

MasseyU GeneExpressionEvolution

PhD Project in Polyploid Transcriptomics

We are seeking an outstanding candidate for a groundbreaking PhD project looking at the gene expression response to polyploidy using next-generation sequencing. The project builds on our existing work on fungal interspecific hybrids that has uncovered universal rules for polyploid gene expression responses. The successful applicant will be responsible for managing large transcriptome databases, analyzing expression data to determine the consequences of polyploidy on gene expression, and undertaking comparative analyses, including simulation and statistical modeling to determine the evolutionary mechanisms underlying the universal rules.

This computational project (no wet lab component) is a collaboration between the Institute of Fundamental Sciences (http://ifs.massey.ac.nz) and the Institute of Natural and Mathematical Sciences (http://-inms.massey.ac.nz) at Massey University, and is affiliated with both the New Zealand BioProtection Centre (http://bioprotection.org.nz) and the Allan Wilson Centre for Molecular Ecology and Evolution (http:/-/www.allanwilsoncentre.ac.nz). The successful candidate will be based in the Computational Biology Research Group in Palmerston North, New Zealand, but will work closely with team members at other institutions.

This position would suit a highly motivated student with a strong quantitative background in bioinformatics, computer science, statistics or mathematics. Training in biology is preferred, but not essential. Candidates must already hold a Masters or Bachelors degree with first class Honors or equivalent.

Requirements are:

* Familiarity with a UNIX working environment * Some scripting and/or programming experience * Basic computer modeling expertise * Ability to handle large datasets

We are offering a fees-only scholarship for this PhD project. To support living costs during their PhD study, the successful candidate will be expected to apply for a Massey Doctoral Scholarship (see http://tinyurl.com/-MasseyDoctoralScholarship for information).

This position offers a rare opportunity to experience New Zealands unique natural and cultural environment. Palmerston North, a university town with a large international community, offers the full range of social and cultural amenities. The city is located close to mountains and the sea, and presents regular opportunities for hiking, skiing, surfing and adventure sports.

For more information, please contact the Principal Investigators, Assoc Prof Murray Cox (m.p.cox@massey.ac.nz) or Dr Austen Ganley (a.r.ganley@massey.ac.nz), or visit their group websites (http://massey.genomicus.com and http://rdnaome.org respectively).

To apply for this position, send the following documents (in PDF format) to Assoc Prof Murray Cox (m.p.cox@massey.ac.nz):

1. A brief statement of research interests, qualifications and experience. 2. A CV 3. University transcripts 4. The names and contact details of three referees willing to provide a confidential letter of recommendation upon request.

Applications are due by Sunday 18 August 2013.

Assoc Prof Murray P. Cox Institute of Fundamental Sciences Massey University Private Bag 11 222 Palmerston North 4442 NEW ZEALAND

http://massey.genomicus.com m.p.cox@massey.ac.nz

Murray Cox <murray.p.cox@gmail.com>

Merelbeke Belgium 4 EvolutionaryBiol

We have 4 PhD scholarships available at the Institute for Agricultural and Fisheries Research (ILVO) (located in Merelbeke, Belgium) for a project studying the composition of (meta)populations by using next generation sequencing techniques:

PhD 1 develops computational methods for the functional interpretation and visualization of population scale NGS data. The data and data analysis methods are exchanged with the other three PhD students through the six case studies.

PhD 2 studies the driving forces (environmental or genetic) that form the basis of the adaptive power of perennial ryegrass cultivars and comb jelly populations.

PhD 3 focuses on the influence of microbial populations in the rhizosphere on plant health or in the degradation of microplastics in sea water.

PhD 4 investigates gastro-intestinal microbial communities and focuses on the effect of feed additives on methane production in cows and antibiotic resistance development in pigs.

For more information: http://goo.gl/BLGp7 Thanks, Annelies

Annelies Haegeman Postdoctoral scientist

Instituut voor Landbouw- en Visserijonderzoek/Institute for Agricultural and Fisheries Research Eenheid Plant / Plant Sciences Unit - Genomics Caritasstraat 21 9090 Melle Tel +32 9 272 29 60 Tel +32 9 272 24 73

annelies.haegeman@ilvo.vlaanderen.be www.ilvo.vlaanderen.be Annelies Haegeman <annelies.haegeman@ilvo.vlaanderen.be>

OhioStateU Phylogeography

Grad Student

The Carstens lab at The Ohio State University is looking for Ph D students who are interested in phylogeography in general and developing new approaches to the analysis of comparative phylogeographic data in particular. Please see < http://carstenslab.org.ohio-state.edu/> and < https://-/sites.google.com/site/bryanccarstens/ > for general information about the lab, and contact Bryan directly if interested at <carstens dot 12 at osu dot edu>. I anticipate that the positions would start in the Fall of 2014.

Bryan C. Carstens Department of Evolution, Ecology, & Organismal Biology The Ohio State University 318 W. 12th Avenue Columbus, OH 43210-1293

web: http://carstenslab.org.ohio-state.edu/ web: https://sites.google.com/site/bryanccarstens/ skype: bryan_carstens office: 614.292.6587 cell: 734.474.8527

Bryan Carstens <bryan.c.carstens@gmail.com>

RBG Edinburgh BegoniaEvolution

Royal Botanic Garden Edinburgh and the University of Glasgow. Linking the genome to the niche in the mega-diverse genus Begonia PhD scholarship

Abstract Begonias are one of the largest groups of flowering plants in the world, with nearly 2000 species. They are very successful at colonising deeply shaded habitats in the tropical forest understory, often growing where few other plants can survive. Why are there 2000 species, and how are they different? Answering this question will give us insights into why the tropics hold so much of the world's biodiversity. To what extent do begonias differ in tolerating deep shade, which is a very important part of their strategy for survival? To answer this we need to compare the light levels that a number of different species get from dawn to dusk by measuring it in the forest where they grow. There may be other important factors in the habitat that may differ from site to site, such as temperature, humidity and soil characteristics, so we also need to measure those. From this data we can see how much the conditions each species grows in differ. What would make each species do better under different conditions? To answer this we need to look at their ecophysiology, for example examining photosynthetic efficiency, how the leaf surface might vary in order to capture light of different intensity or angle, or how the stomata are arranged and controlled. To complete the picture of how begonia species differ, we can use our database of begonia genes to identify genes variable between species, focusing on those which may be involved in ecophysiological traits. We can sequence these from the same species we have habitat and ecophysiology data for to determine if the sequence variation is linked to adaptation to particular niches. There is the potential to use interspecific genetics or transgenics to further investigate functional links between particular genes and niche adaptation.

Applicants should be highly motivated with an excellent academic record, with a first degree in a relevant subject of at least upper second or equivalent. The project will require competence in molecular lab skills and the ability to withstand several months over the course of the project in the field in Indonesia.

The studentship is funded by the M. L. MacIntyre Begonia Trust, and is open to applicants liable for tuition fees at the Home and EU rate. The stipend is £13590

per annum. The start date will be in September-October 2013, with a closing date for applications of August 30th 2013. Applicants should send a cover letter explaining their interest in the project, and highlight any relevant experience and publications. The successful applicant will be based at the Royal Botanic Garden Edinburgh, with the degree being awarded by the University of Glasgow. For more information please contact either Dr Mark Hughes or Dr Catherine Kidner.

Supervisors Mark Hughes, Royal Botanic Garden Edinburgh (m.hughes@rbge.ac.uk; 0131 2482893)

Catherine Kidner, Royal Botanic Garden Edinburgh (c.kidner@rbge.ac.uk; 0131 2482838)

Rod Page, Glasgow University (rdmpage@gmail.com; 0141 3304778)

References Brennan, A. C., Bridgett, S., Ali, M. S., Harrison, N., Matthews, A., Pellicer, J., Twyford, A. & Kidner, C. A. (2012). Genomic resources for evolutionary studies in the large, diverse, tropical genus, Begonia. Trop. Pl. Biol. 5(4): 261-276.

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Hughes, M. & Pullan, M. (2007). Southeast Asian Begonia Database. Electronic publication accessible via www.rbge.org.uk . Nevo, R., Charuvi, D., Tsabari, T., Reich, Z. (2012) Composition, architecture and dynamics of the photosynthetic apparatus in higher plants. Plant J. 70: 157-176.

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

M.Hughes@rbge.ac.uk

UBasel HostParasite

University of Basel, Switzerland

PhD-position in host-parasite interactions and coevolution

is available in the group of Dieter Ebert at Basel University. I am looking for a highly motivated candidate with interests in evolutionary genetics/genomics and host-parasite interactions. The PhD project is concerned with the interactions and coevolution of Daphnia magna and its bacterial parasite Pasteuria. The details of the PhD project will be worked out with the candidate, to accommodate interests and strength. The position is supported by the Swiss National Science Foundation and the University of Basel. The research group covers the entire range from epidemiological and ecological aspects of host-parasite interactions, to studies on the population genetics and genomics of hosts and parasites. Work is carried out in the field and in the lab. For more information see: http://-evolution.unibas.ch/ebert/ Starting date for the PhD is negotiable (any time from October 2013 onwards). In Basel German is helpful in every day life, but the working language in the group is English. A Diploma or Master degree (or equivalent) in biology or related subject is necessary for admission.

Please send your application by email (all material in one file please) to Dieter Ebert. Applications should include a CV, a list of publications and a statement about research interests. Please give names and email addresses of two persons who are willing to write a letter of recommendation. Application deadline is 2. September 2013.

Further information and address for application: Prof. Dr. Dieter Ebert, University of Basel, Institute of Zoology, Basel, Switzerland, Email: dieter.ebert@unibas.ch Tel. +41-(0)61-267 03 60 Web: http://evolution.unibas.ch/ebert/ Dieter Ebert Universität Basel, Zoologisches Institut, Vesalgasse 1, CH-4051 Basel, Switzerland http://evolution.unibas.ch/-Email: dieter.ebert@unibas.ch Tel. +41-(0)61-267 03 60 FAX +41-(0)61-267 03 62

dieter.ebert@unibas.ch

UBrussels PlantAdaptation

PhD position in genetics of plant adaptation available in the laboratory of Plant Physiology and Molecular Genetics (N. Verbruggen), Université Libre de Bruxelles, Belgium

We are looking for a PhD student to investigate the genetic basis of cadmium tolerance and their inter- and intra-species variation in the model plant Arabidopsis halleri (Brassicaceae). This species, which is closely re-

lated to Arabidopsis thaliana, is hypertolerant to zinc and cadmium and for some populations hyperaccumulator of zinc and/or cadmium. In the last few years, these traits were investigated in two metallicolous A. halleri populations by means of QTL mapping and transcriptomics and some mechanisms underlying these traits were identified. Nevertheless, recent phylogeographic studies and phenotyping data have suggested that metal tolerance could have evolved secondarily in metallicolous populations and could involve different genes according to the population origin. The aim of this project is to investigate the variability of the genetic architecture of cadmium tolerance in A. halleri. The PhD student will analyse progenies from crosses using metallicolous and non metallicolous populations from the different A. halleri genetic units. He/she will contribute to the construction of genetic maps, to cadmium tolerance phenotyping and to the analysis of comparative transcriptomics analysis.

Motivated student with a MSc degree in life science (evolution, molecular biology or other related fields) and a broad interest in genetics of plant adaptation are encouraged to apply. Experience in molecular techniques, large phenotyping of plants and/or quantitative genetics is an advantage. Because the holder of this position will collaborate and interact closely with other members of the group, we will put emphasis on both independence and ability to collaborate.

The work is scheduled to start in October 2013. The first year of the PhD is funded by the FNRS (1734â¬$grant per month including social security, retirement etc.). Continuation of the appointment for another 36 months will be b$FRIA call$).

The position is based at the LPGMP lab (http://-/www.ulb.ac.be/sciences/lpgmp/) at the University of Bruxelles (ULB, http://www.ulb.ac.be/), a dynamic research University with opportunities for worldwide collaboration. The candidate will be supervised by Pr. Nathalie Verbruggen and Dr Claire-Lise Meyer. Application including a CV, a letter of motivation and contact details of two scientific references should be addressed and sent to Pr Nathalie Verbruggen (nverbru@ulb.ac.be) and Dr Claire-Lise Meyer (clmeyer@ulb.ac.be). Deadline of application : July 17 2013

Claire-Lise.Meyer@ulb.ac.be

UGlasgow AdaptiveEvolution

Grad student position

An exciting opportunity is offered for a graduate student interested in the processes underlying adaptive diversification in nature. We use ecological, genetic, and experimental approaches to study the repeated evolution of ecologically-specialized morphs of Arctic charr (Salvelinus alpinus) where the typical pattern of ecological and phenotypic divergence is a broad continuum of benthic and limnetic phenotypes. This is a powerful system for determining the earliest stages of adaptive differentiation, specialization, and speciation. However, this species is also under threat from climate change which will motivate some of the research in this project. Students will have the opportunity to learn cutting edge next generation sequencing techniques as well as experimental, and morphometric methods. There are potential opportunities to work with collaborators at the University of Aberdeen, as well as colleagues in Canada at the University of Guelph, as well as in Iceland at Holar University College.

This studentship is open to both UK and EU citizens and is funded by the Scottish Natural Heritage and the University of Glasgow. Students will receive a stipend for the three year programme period.

Applicants should be highly motivated and have an excellent academic record at Bachelors level in an appropriate biological subject, and an interest in evolutionary and environmental issues. Interested students should send a cover letter describing why the PhD opportunity interests them, and list any relevant experience and publications (if any). Informal inquiries can be made Dr. Kevin Parsons at Kevin.Parsons@glasgow.ac.uk. The position will begin in the autumn of 2013 with some opportunity for an early start.

Kevin.Parsons@glasgow.ac.uk

ULausanne SocialEvolution

1 PhD position: Sibling negotiation, communication network, social rules University of Lausanne, Department of Ecology and Evolution

We are looking for one PhD student to work on sibling negotiation. Animal communication is often studied by averaging the performance of each participant of a social network, while we expect that individuals adjust their investment in signalling at each moment according to their counterparts and to their likelihood of winning

the contest. Using the barn owl as a model species, we want to tackle this issue and study experimentally the dynamics of animal communication. How individual siblings that vocally negotiate prey items invest in the vocal contest: with which sibling do they interact, how, and do the ways they interact with siblings affect their ability to monopolise the food resource? To go further, as social rules that ultimately determine food share have been found, what happens if some siblings do not follow these rules? Is there a social control that prevents cheaters to emerge?

The student will take part in natural population monitoring, setting up and follow up of experiments in laboratory, behavioural observations, acoustic analyses, and elaboration of acoustic tools in collaboration with acousticians.

Eligibility: Dynamic and motivated student holding a master in ecology and or related disciplines. The applicant is expected to have a good knowledge (spoken and written) of the English language. Driving license is needed. The duration of the PhD training period is three full years.

Applications should comprise a CV, a letter explaining the motivation and one or two letters of reference The position will be filled as soon as a suitable candidate is found.

The Department of Ecology and Evolution is a well-funded institution, one of the largest and most reputed departments in this field. We have a dynamic doctoral school and a doctoral program for the different Swiss universities.

Contact: University of Lausanne, Department of Ecology and Evolution, Building Biophore, 1015 Lausanne, Switzerland

Supervisors Prof. Alexandre Roulin, Alexandre.Roulin@unil.ch Dr. Amélie Dreiss, Amelie.Dreiss@unil.ch

Prof. Alexandre Roulin Department of Ecology & Evolution Building Biophore University of Lausanne CH-1015 Lausanne Switzerland

Desk 3202 Tel: 0041 21 692 41 89 Mobile: 0041 79 686 08 64 Fax: 0041 21 692 41 65 Website: http://www.unil.ch/dee/page7006.html alexandre.roulin@unil.ch

Advanced Training / PhD program

"Exceptionally strong PhD program with essentially no weaknesses" (Overall comment from the Evaluation Panel) BioFIG/FCUL PhD program

The new PhD program BioSys - Biological Systems, Functional and Integrative Genomics has been approved for funding in the national call for PhD Programmes launched in December 2012 by FCT with top scores on all evaluation parameters. Hosted by the Center for Biodiversity, Functional & Integrative Genomics (BioFIG) and the Faculty of Sciences, cooperating across departmental boundaries and with intensive international collaboration, the new program has been funded for four editions, with 5 national and 6 mixed Scholarships per edition, totaling 44 (four year) fellowships for the duration of the program. BioSys is shaped to train young researchers to make the bridge from biology to the remarkable potential of mathematical and computational approaches for solving problems of a new and interdisciplinary nature by applying integrative functional genomics and innovative research approaches. The program offers a coordinated, flexible and customized plan of post-graduate training during the first year involving international faculty, with the following 3 years devoted to research in either national or international laboratories. As a hallmark of its interdisciplinary nature, the program is open to top level candidates holding an MSc degree in biology, computer science, applied mathematics, physics and engineering, who will be assisted by two supervisors from complementary scientific areas (life, physical or computational sciences).

The programme will start in early 2014 (Jan/ Feb). Recruitment is scheduled to start in September 2013.

More information is being posted regularly. If you are interested, please check this website:

http://biofig.fc.ul.pt/training-phd-programme –

Andreia J. Amaral, PhD BioFIG - Center for Biodiversity, Functional and Integrative Genomics Instituto de Medicina Molecular University of Lisbon Tel: +352 217500000 (ext. office: 28253) email:andreiaamaral@fm.ul.pt ; andreiaamaral@fc.ul.pt

Andreia Fonseca <andreia.fonseca@gmail.com>

ULisbon Genomics

UNeuchatel Switzerland EvolutionEcologyLymeDisease

Two PhD positions for duration of four years are available for research on the ecology and evolution of Lyme borreliosis, a tick-borne infectious disease caused by the spirochete bacteria, Borrelia burgdorferi. In Europe, certain Borrelia species have specialized on either bird or mammalian reservoir hosts. One PhD project will address conflict over host choice between the specialist Borrelia pathogen and the generalist tick vector. The other PhD project will examine interactions between the Borrelia pathogen and the rodent immune system.

Job requirements: The positions require independent, motivated, and scientifically curious individuals with a background in any of the following: ecology, evolutionary biology, immunology, physiology, or animal behavior. Any of the following skills are useful: molecular biology, immunology, arthropod behavior and physiology, handling of rodents and birds. An MSc (or equivalent) in Biology is required. The position requires some teaching of biology labs. French language skills are helpful.

Neuchatel is an attractive city with a high quality of life in the French part of Switzerland. The city is located on the shore of Lake Neuchatel with the Jura Mountains to the North and the Bernese Alps to the South. For outdoors enthusiasts, this is an excellent area for hiking, climbing and skiing.

Start data: One position is available as of September, 2013. The other position is available in January, 2014.

Application requirements: Formal applications should include: a 1-2 page cover letter (in English) indicating research interests, your CV, and two letters of reference. Application deadline is August 31, 2012. Applications and informal enquiries can be submitted by email to: maarten.voordouw@unine.ch

mjvoordouw@gmail.com

VUAmsterdam EvolutionTraitLoss

2 PhD positions in Evolutionary Biology/Molecular Biology (f/m) Vacancynumber: 13204

Job / Project Description The section Animal Ecology of the Department of Ecological Science has two PhD positions in Evolutionary Biology available in the VICI-project of prof. Jacintha Ellers, entitled 'Evolutionary loss of traits in species interactions?'.

This project investigates a new framework to understand the driving forces and underlying mechanisms of trait loss in the context of ecological interactions. This novel theory of reductive evolution explains how traits can be lost without affecting the external phenotype, provided the lost function is compensated for by species interactions. However, the evolutionary dynamics driving such compensated trait loss are poorly understood.

The VICI project comprises a team of six researchers. The current PhD-positions focus on (i) determining molecular changes underlying compensated trait loss (PhD1). The PhD student will use transcriptomics and functional genetics to study molecular mechanisms of loss of lipid synthesis in insect parasitoids; (ii) quantifying the rate and succession of evolutionary changes involved in the initial stages of compensated trait loss (PhD2). The PhD student will use experimental evolution to identify phenotypic and molecular changes in an invertebrate host following experimental infection with the bacterial endosymbiont Wolbachia.

Tasks * Executing scientific research as detailed in the project description. * Publication of results of the research in scientific journals as well as in a thesis. * Assisting in undergraduate courses given within the Department of Ecological Science. * Following the PhD educational programme as prescribed by the Graduate School.

Requirements * MSc degree in Biology, preferably with advanced courses in animal ecology, evolutionary biology, molecular biology, or equivalent. * experience with working with invertebrate species * affinity with state-of-the art molecular biological techniques * excellent ability to communicate in both written and spoken English * good social skills, ability to work independently and strong scientific motivation * experience with writing scientific papers is an asset

Appointment The initial appointment will be for a period of 1 year. After satisfactory evaluation of the initial appointment, it can be extended for a total duration of 4 years. Payment will be according to the standard regulations, from Euro 2,062.- gross per month in the first year up to Euro 2,664.- gross per month in the fourth year based on a full-time appointment. You can find information about our excellent fringe benefits of employment at www.workingatvu.nl including remu-

neration of 8,3% end-of-year bonus and 8% holiday allowance, and generous contribution (70%) commuting allowance based on public transport;

Information For additional information please contact: prof. dr.J.Ellers (j.ellers@.vu.nl, Phone number +31 20 5987076). Upon request, applicants can obtain a full description of the VICI project (including the current 2 PhD positions) from D. Hoonhout (tel.+31 20 5987004; desiree.hoonhout@vu.nl).

Application Applicants are requested to write a letter in which they describe their abilities and motivation, accompanied by a curriculum vitae and two reference names. Applications -in a single pdf-file only and mentioning the Vacancy number 13204- should be sent to: vacature.falw@vu.nl. Selection of applicants starts 12 July 2013 and continues until positions are filled. Please mention the vacancy number in the e-mail header.

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

j.ellers@vu.nl

Jobs

Charleston MolecularCoreLabManager

Molecular Core Facility Lab Manager Grice Marine Laboratory of the College of Charleston

APPLICATION DEADLINE: JULY 21, 2013

Molecular Core Facility Lab Manager. The position is split, with roughly 50% as the lab manager of the Molecular Core Facility (MCF) at the Grice Marine Laboratory and 50% as lab technician for the Marine Biology Graduate Program director.

MCF manager duties include 1) Sanger sequencing and troubleshooting problems with user-supplied samples

for Sanger sequence and the preparation of DNA libraries for next-generation sequencing, 2) oversight of the use and maintenance of MCF facilities and equipment, 3) purchasing, inventory, and maintenance of tracking and billing system for equipment usage, and 4) training students, faculty, and staff on complex molecular biology equipment and associated computer software. Lab technician duties will be diverse, including performing biological experiments, troubleshooting, purchasing and inventory, training of students, as required.

Required Knowledge and Skills: Knowledge of principles and laboratory applications of modern molecular biology, including DNA sequencing, electrophoresis, PCR, and image analysis. Ability to follow complex instructions and use complex laboratory equipment. Ability to communicate effectively and prepare and present technical training. Training on specialized equipment from manufacturers' representatives will be required. Training regarding billing, ordering, safety compliance, etc. from direct supervisor and other College personnel required.

Minimum Requirements: Bachelor of Science in Biology, Molecular Biology or related discipline and directly related experience with DNA sequencing and standard molecular biology methodologies. Candidates with an equivalent combination of experience and/or education are encouraged to apply.

Salary is commensurate with education/experience. Offers of employment are contingent upon a successful background check. ?All applications must be submitted online https://jobs.cofc.edu. For questions about the position, contact Dr. Craig Plante at plantec@cofc.edu or 843-953-9187. Review of applications will begin on July 21 and continue until the position is filled.

"Plante, Craig J" <PlanteC@cofc.edu>

ClemsonU NGS Technician

Full/Part Time: Full-Time Regular/Temporary: Temporary - Time Limited

POSITION DESCRIPTION:

1. JOB PURPOSE

To engage in a vigorous basic and applied genetics/genomics research program focused on NGS (next generation sequencing), genotyping, and SNPchip data from several domestic species (including the genera Sorghum, Saccharum, and Zea and their wild relatives)

2. JOB FUNCTIONS

EXPERIMENTS Plan and execute experiments, analyze data, and prepare manuscripts E/40%

ASSAYS Undertake relevant yield, biochemical, and compositional assays. E/40%

PREPARE MATERIALS Prepare materials for next generation sequencing and genotyping. E/20% QUALIFICATIONS:

MINIMUM REQUIREMENTS:

MS with significant experience or a PhD in a biology field with a solid background in population genetic/genomics, evolution, and statistics.

Ability to work independently and with theoretical and empirical crop improvement and population genetics/genomics researchers is important. PAY & WORK SCHEDULE:

Standard Hrs: 37.5; Salary commensurate with education, training, and experience.

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Ability to work independently and with theoretical and empirical crop improvement and population genetics/genomics researchers is important. PAY & WORK SCHEDULE:

Standard Hrs: 37.5; Salary commensurate with education, training, and experience. HOW TO APPLY:

To apply, please submit the following: A letter of application, resume, and three (3) letters of reference. In addition, external applicants must submit a copy of transcripts of all college courses to:

Mr. M.J. Simmons Clemson University 107 Barre Hall Clemson, SC 29634

Review of materials will begin immediately and continue until the position is filled. To ensure full consideration, please submit materials by: August 16, 2013 BENEFITS INFORMATION:

Employees who are in time limited positions will earn one and one-quarter days of Annual and Sick Leave per month for a total of thirty (30) days per year. Eligible part-timers will earn days on a pro rata basis. JOB LOCATION:

Biosystems Research Complex - CU main campus JEANNE CLERY ACT:

The Jeanne Clery Disclosure Act requires institutions of higher education to disclose campus security information including crime statistics for the campus and surrounding areas. As a current or prospective Clemson University employee, you have a right to obtain a copy of this information for this institution. For more information regarding our Employment, Campus Safety and Benefits, please visit the Human Resources - Prospective Employees web page shown below:

http://www.clemson.edu/cao/humanresources/-prospective/ CLOSING STATEMENT:

Clemson University is an Affirmative Action/Equal Opportunity employer and does not discriminate against any individual or group of individuals on the basis of age, color, disability, gender, national origin, race, religion, sexual orientation, veteran status or genetic information.

Human Resources <mmcder2010@hotmail.com>

ColoradoStateU GeneticsComplexTraits

Assistant Professor - Genetics of Complex Traits in Plants

Tenure-track, 9-month academic faculty position (80% Research, 20% Teaching). Colorado State University, Fort Collins, Colorado

We invite applicants for a tenure-track position (ASSISTANT PROFESSOR) in the genetics of complex traits in plants, with a focus on resistance to herbicides in plants. The successful candidate will be expected to develop an extramurally funded and innovative research program that will contribute to solving problems relevant to Colorado agriculture. The candidate will also contribute to undergraduate and graduate teaching.

Applicants must have Ph.D in biology or an allied filed; research experience in the genetics of complex traits and published peer-reviewed papers. We seek a colleague with the ability to creatively address important ecological and evolutionary questions and to integrate fundamental and applied research. View the full position description and directions for how to apply at:

http://bspm.agsci.colostate.edu/genetics/ To receive full consideration, apply by August 28, 2013.

CSU is an EO/EA/AA employer. Colorado State University conducts background checks on all final candidates.

jkmckay@colostate.edu

DukeU FieldTech PlantAdaptation

The Mitchell-Olds lab at Duke University seeks a temporary planting assistant for 3 weeks of work in the northern Rocky Mountains. We are studying Boechera, a perennial herb that offers genetic tractability and ecological context. Due to its perennial nature, experimental plants must be planted in fall for data collection the following summer. We seek an assistant for fall planting from approximately September 27-October 18, 2013. Current field experiments focus on questions related to local adaptation, speciation, plant defense, and mating systems.

Our research sites are located in east-central Idaho and southwest Montana. Base camp is a set of trailers located near the beautiful town of Salmon, Idaho. Trailers include heat, hot water, a landline, and wireless internet access. Travel distances between sites are long, which may necessitate overnight camping. Weather conditions in the Rockies at this time of year are often cool, but work in both hot weather and snow is probable.

Applicants must be available throughout the duration of this time period. Successful applicants are expected to assist in plant care, dibbling, transplanting, possible seed collection, carrying large quantities of water and racks of plants, and possibly sharing in driving of research vehicles. The work is demanding and tiring, and applicants must be physically fit. A good sense of humor is a necessity.

Qualifications: 1) some undergraduate education in biology, ecology, or related field, or equivalent experience; 2) experience camping and working outdoors and/or previous field research experience; 3) ability to perform repetitive tasks with a cheerful attitude and with attention to detail; 4) willingness to live and work in close proximity with other researchers in a trailer. Previous experience working with plants is preferable but not required. Transportation and salary will be provided.

Interested applicants should submit: 1) a short cover letter describing their qualifications as well as future academic and professional goals; 2) a résumé outlining previous work experience, relevant courses (completed or in progress), and extracurricular activities; and 3)

contact information for two character references.

Email to:

Tom Mitchell-Olds, tmo1@duke.edu Biology Department, Duke University

catherine.rushworth@gmail.com

GettysburgCollege 1yr Teaching EvolutionaryMicrobiol

Gettysburg College invites applications for a one-semester sabbatical replacement position at the rank of assistant professor in the Biology Department for Spring 2014. Ph.D. in a Biological Sciences discipline (ABD acceptable) and commitment to teaching in the liberal arts tradition are essential. Must be able to teach microbiology (one lecture and two lab sections). Send curriculum vitae and statement of teaching experience and have three letters of reference (of which at least one can speak to the candidates teaching effectiveness) to: Dr. Vronique A. Delesalle, Microbiology search, Biology Department, Box 392, Gettysburg College, Gettysburg, PA 17325. Review of applications will begin August 15th, 2013, and will continue until a successful candidate is found. Vronique A. Delesalle

Professor of Biology Chair of the Biology Department Box 392 Gettysburg College Gettysburg, PA 17325

Tel: 717-337-6153 fax: 717-337-6157

Veronique Delesalle <delesall@gettysburg.edu>

ImperialCollege London EvolutionaryEcol

Imperial College London

Faculty of Natural Sciences

Department of Life Sciences

Academic Position in Ecology and Evolution (Lecturer/Senior Lecturer/Reader/Chair)

Lecturer salary in the range £44,150 - £49,200 per annum Senior Lecturer/Reader minimum starting salary: £54,250 per annum Chair minimum starting salary: £68,970 per annum

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

The successful candidate will contribute to the Department's goal of improving fundamental scientific understanding of biological and ecological processes and systems. The research will focus on solving ecological and evolutionary challenges and could fit into a range of disciplines, including, but not restricted to, ecology, evolution, genomics, agro-biology, or conservation science.

The Department is seeking to appoint a candidate with expertise in relevant areas of Ecology and Evolution. We anticipate that this appointment will be at Lecturer level. However, there is potential for the appointment to be made at more senior academic levels (Senior Lecturer/Reader/Chair), and we welcome applications from more senior researchers.

Reporting to the Deputy Head of the Department, you will be expected to identify opportunities in Ecology and Evolution and contribute to teaching and administration within the Division and Department. You will be required to raise financial support, manage your own innovative research programme of international quality in the areas of ecology, evolution or conservation science that would expand on and complement existing activities within the Department of Life Sciences.

The successful candidate will be expected to have a good honours degree and a doctorate (or equivalent) in a relevant subject area. You will also have an international reputation for research and innovation in ecology and evolution commensurate with the current stage of your career, underpinned by a record of first-class journal publication. You must also be able to demonstrate the potential to raise significant research funding from UK and EU sources to maintain and enhance the College's leading research activities. Experience of teaching at undergraduate and Masters' level, and postgraduate student supervision, are not essential, but would be an advantage. You must have excellent interpersonal, verbal and written communication skill with an ability to convey ideas and concepts clearly and effectively to a range of audiences through a variety of methods and media. You must have the ability to lead a research team, manage the finance and your staff. You must also have the ability to communicate and inspire students as you will be expected to contribute to our undergraduate and postgraduate teaching programmes. For appointment to Senior Lecturer/Reader, in addition to the above, candidates must also have an

exceptionally strong research record in ecology, evolution or conservation science or a closely related subject, and a proven track record of securing research funding. You will also be expected to have extensive experience in postgraduate teaching and undergraduate teaching across a range of subjects within (or close to) the fields of Ecology, Evolution or Conservation Science, together with a track record of successful postgraduate student supervision and postdoctoral mentoring.

For appointment to the position of Chair, in addition to the above, you will also be expected to have an international reputation for your research, and strong leadership qualities in areas which enhance and extend those of the Group.

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

For an informal discussion about the post please contact Professor Vincent Savolainen (v.savolainen@imperial.ac.uk).

Our preferred method of application is online via our website http://www3.imperial.ac.uk/employment (please select "Job Search" then enter the job title or vacancy reference number including spaces - NS 2013 160 JT into "Keywords"). Please complete and upload an application form as directed.

Alternatively, if you are unable to apply online, please contact Mrs Diana Anderson by email d.anderson@imperial.ac.uk to request an application form.

Closing date: 26 August 2013

Committed to equality and valuing diversity. We are also an Athena SWAN Silver Award winner, a Stonewall Diversity Champion and a Two Ticks Employer.

"Thomas, Jenny" <j.thomas@imperial.ac.uk>

JohannesGutenbergU EvolutionaryEcol

The Johannes Gutenberg-Universität Mainz, Germany, Faculty of Biology, invites applications for a

Full Professorship (Tenure Position W3)

in Evolutionary Ecology

to be filled at the earliest possible date. The successful applicant will have a record of internationally visible research in Evolutionary Ecology, preferably using molecular genetic methods. The position will be part of the Mainz Biology Division "Evolution, Biodiversity and Anthropology". Cooperation is encouraged with the research focus "Gene Regulation in Evolution and Development" (www.imb.de/GeneRED) of the Department of Biology and the Institute of Molecular Biology (IMB). In addition to their scientific qualifications, candidates must have didactic skills and experience in teaching Ecology at the Bachelor and Master levels, including ecological field courses and excursions.

State law (§49 of the Hochschulgesetz Rheinland-Pfalz) requires applicants to have the relevant university and doctoral degrees, an outstanding research record and teaching achievements.

The State of Rhineland-Palatinate and JGU put particular emphasis on intensive student support. We expect the University's faculty to reflect this in their presence at the University.

JGU aims at increasing the number of female faculty and therefore explicitly encourages applications by female scientists. Disabled applicants with adequate qualification will be given preferential treatment.

Applications including the usual documents (CV; publications; teaching; funding; research proposal; forms available at http://www.bio.uni-mainz.de/), both on paper and in electronic form (PDF), should be submitted no later than 15 August 2013 to

Dekan des Fachbereichs 10 - Biologie - Johannes Gutenberg-Universität Mainz 55099 Mainz Email: zischler@uni-mainz.de

gehrke@uni-mainz.de

LeibnizInst Berlin Bioinformatician

Leibniz Institute for Zoo & Wildlife Research Berlin/Bioinformatician (f/m)

The Leibniz Institute for Zoo & Wildlife Research Berlin is Germany's premier wildlife research institute, a member of the Leibniz-Gemeinschaft of research institutes and jointly funded by the federal government and the state government of Berlin. The IZW focuses on the life histories and evolutionary adaptations of mammals and birds and their conservation in natural and

anthropogenically influenced environments. The institute operates within the fields of wildlife health and diseases, reproductive biology and medicine, and evolutionary ecology and genetics.

For a major new interdisciplinary research initiative, funded through the Pact for Research and Innovation via the Leibniz Association, on

"Gradual environmental change versus single catastrophe - identifying drivers of mammalian evolution"

the IZW, together with its partner, the Potsdam Institute for Climate Impact Research (PIK) with expertise in the areas of climate change, climate policy and climate economics, and in collaboration with further institutions, offers the following position:

Bioinformatician (Reference 12/2013)

Project

The research initiative will focus on the evolution of mammals in the Sunda Shelf in Southeast Asia, a global biodiversity hotspot. By combining climate reconstruction, molecular genetic data and species distribution data from the Late Pleistocene to the present we will investigate and elucidate on the patterns and processes generating the complex distribution patterns of genetic and species diversity (e.g. Pleistocene refugia), and thereby evaluate the impact of the hypothesised key drivers shaping biodiversity. Using carnivores, primates and hoofed mammals as models, this will also contribute to the assessment of the long-term consequences of the current (man-made) biodiversity crisis.

Prerequisites . A Master of Science/Diploma or PhD in bioinformatics or related disciplines; . Bioinformatics background with molecular biology knowledge; . Broad experiences with working with complex Next Generation Sequencing data and bioinformatics databases; . Excellent programming and scripting skills (e.g. Python, Perl R, Java, C++); . Highly proficient with linux systems and server administration; . Working experience in a scientific institution is an advantage; . Proficiency in English (oral and written).

We offer state-of-the-art methodology and a stimulating research environment in an interdisciplinary, collaborative project. For all candidates, organisational skills, high motivation and the willingness to work as part of a team within a highly interdisciplinary project are essential. For enquiries or further questions, please contact Dr Joerns Fickel (IZW), phone: +49 (0)30 5168-314, email: fickel@izw-berlin.de or Dr Andreas Wilting (IZW), phone: +49 (0)30 5158-333, email: wilting@izw-berlin.de.

Salary and benefits will be competitive (100% scientist's salary) and the position is limited to two years and will be available from 1st September 2013. Interviews will take place on August 8th and 9th, 2013 (potentially via Skype). As a member of the Leibniz Association, the IZW is an equal opportunity employer, and is determined to increase the proportion of women in successful scientific careers, and particularly encourages women to apply.

Please email complete application documents as a single pdf-file including the position reference number, a letter of motivation, CV, copies of relevant degrees, and names and contact details of two referees as soon as possible but no later than August 4th, 2013 to personal@izw-berlin.de or by mail to Leibniz Institute for Zoo & Wildlife Research, PF 700430, D-10324 Berlin, Germany.

Best regards from Berlin, Witha

"Hildebrand, Roswitha" <hildebrand_personal@izw-berlin.de>

MacEwanU EvolEcol

The Department of Biological Sciences in the Faculty of Arts and Science at MacEwan University invites applications for an Assistant Professor position commencing January 1, 2014. The candidate must have a PhD (or a solid indication of imminent completion) in the biological sciences, or a related discipline with a focus on terrestrial population ecology. Applicants from all areas of terrestrial population ecology are welcome, but particular attention will be given to those with experience in field studies. The candidate must demonstrate excellence, or clear promises of excellence, in teaching. The successful candidate will be expected to support instruction in general ecology, terrestrial ecology, population ecology, and organismal diversity. A commitment to research and to the supervision of undergraduate research project is expected. Candidates utilizing a model organism/system amenable to study in an undergraduate context are of particular interest. Applicants should have fluent written and oral communication skills in English. All qualified candidates are encouraged to apply; however, in accordance with Canadian immigration requirements, Canadian citizens and permanent residents will be given priority. If suitable Canadian citizens or permanent residents cannot be found, other individuals will be considered.

Applicant should submit a covering letter complete

with curriculum vitae, a statement regarding teaching philosophy and interests, recent teaching evaluation, a statement of research interests and graduate transcripts. Candidates should also arrange for three letters of reference to be sent under separate cover. Please quote the competition number on all documents.

All application materials should be submitted before the closing date of August 15, 2013.

This position is included under the Faculty Association Collective Agreement.

All qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents will be given priority.

Category Full Time Continuing Salary Commensurate with education and experience Closing Date August 15, 2013 Competition No. 13.06.059

Apply In Person/By Mail: MacEwan University Human Resources Department University Services Centre Rm. 10-600, 10700 - 104 Avenue Edmonton AB T5J 4S2 Fax: (780) 497-5430

Apply Online: http://www.macewan.ca/wcm/-Administrative/HumanResources/Careers/-HR_JOB_LISTING?jobId=2&list=Academic Kevin A Judge, Assistant Professor Biological Sciences, MacEwan University City Centre Campus, 10700 104 Ave, Edmonton, Alberta, Canada T5J 4S2 780 633 3630 | judgek3@macewan.ca | http://academic.macewan.ca/-judgek3/ judgek3@macewan.ca

MichiganStateU EntomologyChair

Michigan State University seeks a chairperson for the Department of Entomology, and the Position Description is attached. We are contacting your organization as part of our efforts to distribute this document broadly. We hope you will assist by forwarding this announcement, and also highlighting this exciting opportunity to suitable candidates.

With best wishes,

Rufus Isaacs Search Committee Chair Department of Entomology Michigan State University 202 CIPS, 578 Wilson Road East Lansing, MI 48824, USA

"Smith, Courtneay" <smit1542@cns.msu.edu>

MooreLabZoology CollectionsManager

The Moore Laboratory of Zoology (MLZ) at Occidental College seeks a Collections Manager for the bird and mammal specimen collection. Duties for the collections manager include: collecting and preparing specimens; organizing field expeditions; maintaining a specimen and frozen tissue collection; obtaining necessary permits and filing permit reports; training and supervising employees and students in specimen preparation and curation methods; overseeing data cataloging, digitization, and georeferencing; processing specimen loans and exchanges; assisting in grant proposal preparation; contributing to MLZ education and outreach programs in the college and local community; collaborating in specimen-based research in evolution and systematics and supervising undergraduate students in such activities. Independent research projects are encouraged.

A Ph.D. in a natural science field is preferred or at least a Master's degree plus five years' experience in managing a bird specimen collection. A background in firearms training and use required. Applicants should have strong organizational and interpersonal skills. Prior experience conducting research or collecting in Mexico, including speaking Spanish, is a plus.

The Moore Laboratory of Zoology is a world-renowned natural history collection featuring the largest Mexican bird collection in the world and over 62,000 bird and mammal specimens. The MLZ has connections with nearby institutions such as the Jet Propulsion Lab, Cal Tech, Pomona and Harvey Mudd Colleges, USC, UCLA, Huntington Gardens, and the L.A. Natural History Museum. Occidental College is a small liberal arts college located in the culturally-rich Los Angeles neighborhood of Eagle Rock near Pasadena. Occidental is well-situated close to many outdoor recreational activities: the ocean, mountains, and desert can all be reached in 45 minutes or less. The neighborhood surrounding Occidental College is family friendly, very walkable, and home to a wealth of urban amenities including restaurants, coffee shops, and art galleries, with nearby major cultural attractions such the La Brea Tar Pits, L.A. County Museum of Art, Walt Disney Concert Hall, etc.

Please send an e-mail expressing (i) your interest, (ii) your qualifications, and (iii) contact information for two

references, and attach a CV. Send to JOHN MCCORMACK, Director of the MLZ, at mccormack@oxy.edu. Applications will be accepted until the position is filled.

– John McCormack Director/Curator, Moore Laboratory of Zoology Assistant Professor, Biology Department Occidental College 1600 Campus Rd Los Angeles, CA 90041 Office: 323-259-1352 web page: http://-faculty.oxy.edu/mccormack/ Twitter: @LAevolving

mccormack@oxy.edu

NHM London SnakeVisionEvolution

Job: The Natural History Museum, London: Molecular biology research assistant

The Natural History Museum, London (NHM) 12 month fixed-term appointment £20,471 per annum plus benefits Application deadline: Midnight Sunday 14 July, 2013

The NHM is looking to appoint a Research Assistant (RA) to work on a Leverhulme Trust funded project on the evolution of snake vision. The project is using primarily molecular evolutionary biology techniques to investigate aspects of the vision of snakes in order to shed light on broader questions in vertebrate visual evolution. The grant is managed by a Principal Investigator (PI) in London and three Co-investigators (Co-Is) elsewhere, and already employs a Postdoctoral Research assistant (PDRA). The project is about to enter the second of three years.

The RA will work with the Principal and Co-Investigators and Postdoctoral Research Assistant. They will work on wet lab molecular biology. The ideal candidate will be proficient in practical molecular biology and be able to implement techniques including mRNA extraction, cDNA synthesis, PCR, qPCR, RACE, primer design, sequence editing, cloning, and tissue culture. The ideal candidate will be familiar with aspects of phylogenetic analysis of molecular data and the handling of genomic data.

For a full job description and to apply online, please visit the NHM website: www.nhm.ac.uk/jobs Dr David Gower The Natural History Museum London SW7 5BD UK

d.gower@nhm.ac.uk Tel: +44 (0)20 79425080 Fax: +44 (0)20 79425054

David Gower <d.gower@nhm.ac.uk>

ProvidenceCollege ComputationalGenomics

ASSISTANT PROFESSOR OF BIOLOGY - Applications are invited for a tenure-track position in Computational and Genomics Biology at Providence College beginning September 2014. We are interested in candidates who specialize in taking a systems biology approach to studying evolutionary biology and/or microbiomes. The candidate is also expected to maintain a productive research program that actively engages undergraduates. The successful applicant will teach biology majors in courses such as General Biology, Cell Biology and Molecular Genetics, advanced courses in their area of expertise, and courses for non-science majors. Review of applications will begin by October 18, 2013 and will continue until the position is filled.

Applicants are required to have a Ph.D. (post-doctoral experience preferred), a strong commitment to undergraduate education and research, and be able to foster a collaborative atmosphere among students and faculty. Applicants should submit on-line a curriculum vitae, graduate transcripts, statements of teaching philosophy and research interests, and three letters of reference. For additional information please contact: Dr. Charles Toth, Chair, Biology Department, Providence College, Providence, RI 02918-0001 or ctoth@providence.edu.

Providence College is a Roman Catholic, four-year liberal arts college conducted under the auspices of the Dominican Friars and seeks candidates who can affirm and contribute to its Mission. An AA/EOE, the College especially encourages the applications of women and persons of color.

“Arevalo, Elisabeth” <EAREVALO@providence.edu>

Elisabeth Arévalo, Ph.D. Associate Professor Department of Biology Providence College 1 Cunninghan Square Providence, RI 02918-0001 USA

Office ph. (401)865-2158 Lab ph. (401)865-1604 and 1603 Fax (401)865-1438 Email earevalo@providence.edu

“Arevalo, Elisabeth” <EAREVALO@providence.edu>

RBG Edinburgh ResAssist

Research Assistant: Flora of Socotra Centre for Middle Eastern Plants Royal Botanic Garden Edinburgh

This post will generate distribution and environmental data from the flora of Socotra to support the generation and analysis of evolutionary information from the flora of Socotra, and explore how this can be integrated into practical conservation and protected areas management. For a job description please see http://www.rbge.org.uk/about-us/vacancies Dr Alan Forrest Researcher/Project Manager Centre for Middle Eastern Plants Royal Botanic Garden Edinburgh|20a Inverleith Row|Edinburgh EH3 5LR|Scotland|UK Email: A.Forrest@rbge.org.uk Telephone: +44(0)1312482967 www.cmep.org.uk Alan Forrest <A.Forrest@rbge.ac.uk>

RyersonU GenomicBigData

Hello folks,

The Dean of the Faculty of Science has just announced that Ryerson University is conducting an external search for a Teir II NSERC Canada Research Chair in the area of Big data (broadly defined). If you are aware of any young (within 10 years of PhD) research stars in this area, please alert them to this opportunity. We are very excited to have an opportunity to recruit another excellent researcher in the area of Big Data to the Faculty of Science (if the successful candidate chooses us as their home).

Our ability to secure one and possibly two new CRCs is a testament to the tremendous research activities and efforts of our new and growing Faculty of Science. The Tier II Canada Research Chairs that will come available within the Faculty in 2014.

If interested folks email me, I will send them contact information to express their interest to the appropriate people at Ryerson. It would be really great to have Eco-informatics or Genome Informatics folks considered in this competition. BEST, LC

http://www.ryerson.ca/content/dam/jobs/-postings/CRCBigDataAnalytics.pdf lesley.g.campbell@ryerson.ca

StanfordU EvolEcol

Note that Ecology is construed broadly here. We will consider both theoretical and empirical ecologists. In addition, people working on the interface of Ecology and Evolution are encouraged to apply.

Department of Biology, Stanford University

Faculty Position in Ecology

The Department of Biology at Stanford University invites applications for a tenure-track Assistant Professorship in Ecology. We seek outstanding applicants engaged in answering broad basic questions in ecology. We welcome a wide spectrum of applicants and will consider both theoretical and empirical ecologists. Applicants working on the interface of Ecology and Evolution are encouraged to apply. The successful candidate will hold a Ph.D., and is expected to develop a vigorous research program and to participate in the Department's teaching activities at both the undergraduate and graduate levels. More information about the Department and the University can be found at http://biology.stanford.edu/ . All applicants should submit a cover letter, a curriculum vitae including publication list, a statement of research accomplishments and future plans, a description of teaching experience, and three letters of reference. All materials must be submitted electronically to AcademicJobsOnline < http://academicjobsonline.org/ajo/jobs/2723 >. Inquiries may be directed to Faculty Searches, Dept. of Biology, 371 Serra Mall, Stanford, CA 94305, or to maychin@stanford.edu.

Applicant materials must be received by November 1, 2013. The appointment would begin September 1, 2014.

Stanford University is an equal opportunity employer and is committed to increasing the diversity of its faculty. It welcomes nominations of and applications from women and members of minority groups, as well as others who would bring additional dimensions to the university's research, teaching, and clinical mission.

dpetrov@stanford.edu

soren.nylin@zoologi.su.se

StockholmU EcologicalGenomics

ASSISTANT PROFESSOR POSITION IN ECOLOGICAL GENOMICS

Dear colleague,

Please help us distribute this announcement to anybody who you think might be interested!

SciLifeLab Stockholm & Stockholm University, Sweden, jointly seeks to recruit an outstanding young group leader in Ecological Genomics. Last day of application is September 10, 2013. The formal announcement can be found here:

http://www.su.se/english/about/vacancies/lecturers-researchers/assistant-professor-in-ecological-genomics-1.139344 Some important facts:

- This is a tenure-track position as Assistant Professor, with good opportunities for promotion to (tenured) Associate Professor and later to full Professor at Stockholm University.

- SciLifeLab is the Swedish national centre for large-scale biosciences, with state-of-the-art equipment and know-how, whereas Stockholm University is one of the world's top 100 institutes of higher education. The beautiful city of Stockholm is routinely ranked as one of the very best cities in the world to live and work in.

- The position comes with considerable start-up funding, and strong applicants can negotiate for further support from Stockholm University. The Assistant Professorship can be placed either at the Department of Zoology or at the Department of Ecology, Environment and Plant Sciences, depending on research focus.

- Informal information: Department of Zoology, Soren Nylin (soren.nylin@zoologi.su.se); Department of Ecology, Environment and Plant Sciences, Peter Hamback (peter.hamback@su.se). For information about SciLifeLab conditions, candidates can refer to Gunnar von Heine (gunnar@dbb.su.se).

Soren Nylin Professor i Zoologisk Ekologi/Professor of Animal Ecology

Prefekt/Head of Department Department of Zoology Stockholm University S-106 91 Stockholm SWEDEN

Soren.Nylin@zoologi.su.se Tel +46-8-164033 Fax 167715

SwarthmoreCollege ConservationBiology

CONSERVATION BIOLOGIST

TENURE TRACK ASSISTANT PROFESSOR

Department of Biology, Swarthmore College

The Department of Biology at Swarthmore College invites applications for a new tenure-track position at the assistant professor level, beginning September 2014. Applicants should have a Ph.D., teaching experience, and a strong commitment to undergraduate education. Post-doctoral experience is desirable. Successful candidates should be committed to combining teaching and research at a small liberal arts college and will be prepared to contribute to an integrative Biology curriculum. They will be expected to establish an independent, active research program that will provide opportunities for undergraduate participation, and the College offers competitive research start-up packages to support faculty research and teaching. In addition, there are opportunities for participating in the interdisciplinary program in Environmental Studies. Please visit our website at http://www.swarthmore.edu/x52880.xml for more information.

We seek a broadly trained conservation biologist whose research and course offerings complement those of other faculty in the department. We invite applicants who use contemporary methodologies, including computational and/or modeling techniques, to study any taxa. Teaching responsibilities include participation in a team-taught introductory course, a one-semester course in conservation biology with a laboratory and/or field component, and an advanced seminar with research projects in the area of the applicant-s interest. All application materials should be submitted online* by November 4, 2013. Questions regarding this position should be addressed to the search chair, Nick Kaplinsky, at <conservation.bio@swarthmore.edu> or by calling 610-328-8039.

*Swarthmore College is a highly selective liberal arts college, located in the suburbs of Philadelphia, whose mission combines academic rigor with social responsibility. **Swarthmore has a strong institutional commitment to inclusive excellence through diversity in its edu-

cational program and employment practices. The College actively **seeks and welcomes applications from candidates with exceptional qualifications, particularly those with demonstrable commitments to a more inclusive society and **world.

https://academicjobsonline.org/ajo/jobs/2770 Alex Baugh <abaugh1@swarthmore.edu>

UCalifornia SantaBarabara Tech DrosophilaEvolution

Job: UCSB technician position in Drosophila evolutionary genomics

A technician position is now available in the lab of Thomas Turner, at the University of California, Santa Barbara. Successful candidates will be highly motivated, have experience with Drosophila culture, and have excellent communication skills. Please apply using the UCSB HR system (http://www.hr.ucsb.edu/) and the job number below.

Job Title: Lab Assistant Department: MSII-Marine Science Institute Job Number: 20130305 Job Open Date: 07-10-2013 Job Close Date: 1 (If the Close Date shows a '1', it indicates 'Open Until Filled')

Title Code: 9605

Thomas Turner Assistant Professor Department of Ecology, Evolution, and Marine Biology University of California, Santa Barbara

Phone: 805-450-6123 Web: labs.eemb.ucsb.edu/turner/

Thomas Turner <thomas.turner@lifesci.ucsb.edu>

ULausanne EvolutionaryEntomology

The Faculty of Biology and Medicine of the University of Lausanne, Switzerland invites applications for the position of a tenure-track Assistant Professor in Entomology. The position is at the Department of Ecology and Evolution, but is also associated with the Museum of Zoology and the Botanical Garden.

With over 20 research groups, the Department of Ecology and Evolution (http://www.unil.ch/dee) is among the largest departments in organismal biology in Europe and has a long track record of excellence in research.

A start-up package, a state-of-the-art research infrastructure as well as an annual research allowance for positions and consumables will be available within an environment favoring collaborations. The successful candidate is expected to develop an internationally recognized research program in insect ecology or evolutionary biology and take a leading role in a new initiative aimed at developing interactions between the University of Lausanne and the Museum of Zoology and the Botanical Garden.

Pre-existing knowledge of French is not required but the successful candidate is expected to be able to teach in French within 2 years. She/he will also supervise Masters and PhD students and participate to other training activities.

The job description is available on the Internet site http://www.unil.ch/fbm/page64812.html . Further information may be obtained from the Chair of the Search Committee, Prof. Jan R. van der Meer (Jan-Roelof.VanDerMeer@unil.ch)

The applications, in English, will include the curriculum vitae, the list of publications with copies of the five most significant ones, a brief statement of the research program and teaching experience, as well as three references (names and contact information). They should be submitted online by August 16th 2013 as a single pdf file at www.unil.ch/iafbm/application . Seeking to promote an equitable representation of men and women among its staff, the University encourages applications from women.

Tadeusz J. Kawecki Associate Professor Department of Ecology and Evolution University of Lausanne Le Biophore, CH 1015 Lausanne, Switzerland tadeusz.kawecki@unil.ch

tadeusz.kawecki@unil.ch

UNewEngland Australia PlantMolecularEvolution

See http://www.une.edu.au/recruit/ for information on * * *Lecturer in Plant Molecular Ecology * * * *University of New England, Australia*

Salary: $80,513 to $95,421 per annum (Level B) plus 17% employer superannuation and optional salary packaging

Closing Date: 1 September 2013

All documents are on http://www.une.edu.au/recruit/ Jeremy Bruhl Director, N.C.W. Beadle Herbarium (NE) CITES Australian Reg. No. AU 015

Mail address: Prof. Jeremy Bruhl Botany (S02), School of Environmental and Rural Science University of New England Armidale NSW 2351 Australia

Voice +61 2 6773 2429 | Fax +61 2 6773 3283 | jbruhl@une.edu.au | www.une.edu.au | CRICOS Provider Number: 00003G

Jeremy Bruhl <jbruhl@gmail.com>

UUtah LabTech Speciation

RESEARCH TECHNICIAN Phadnis Lab Department of Biology, University of Utah.

A Laboratory Technician position is available in the laboratory of Nitin Phadnis at the Department of Biology, University of Utah, Salt Lake City. The Phadnis Lab takes a multi-disciplinary approach that leverages the power of genetics, genomics and cell biology to address broad questions in evolutionary genetics, with a particular focus on understanding the molecular basis of speciation in Drosophila.

We are looking for a highly motivated individual with excellent communication skills, who is able to work at the interface of evolutionary genetics, genomics and molecular biology. She/ he may be solely responsible for the development and execution of research projects, and successful projects may lead to authorship on scientific publications. Projects include using a combination of classical genetics and genomics identifying genes that cause hybrid sterility and inviability between Drosophila species and using cell biological techniques to understand the molecular basis of hybrid dysfunction. These projects involve crosses between various Drosophila species, micro-injections to produce transgenic strains in non-model Drosophila, various molecular techniques (e.g., genomic DNA preparation, PCR, cloning, sanger sequencing, library construction for next gen-sequencing), and various microscopy techniques. In addition to research, this technician will also assist in daily laboratory management (e.g., ordering, maintenance of stocks and cell cultures of various Drosophila species) and assist in various lab projects. A Bachelors or Masters degree in Biology or a related discipline and experience in a lab environment is required. Experience with techniques such as those described above is desirable, but not necessary. In addition, superior verbal and written communication and routine computer skills (PC/Mac) are necessary. Participation in lab meetings and presentation of data will be required. The ideal candidate will have superior organizational skills in recordkeeping, multitasking, prioritizing responsibilities, time management, and an ability to interact with all levels of staff. Please send a cover letter, CV, and list of three references with contact information. email: nitin.phadnis@utah.edu For more information on this position and to apply, please follow this link: http://utah.peopleadmin.com/postings/-24735 Nitin Phadnis, Ph.D. Assistant Professor/ Mario Capecchi Endowed Chair in Biology, Department of Biology, University of Utah, SLC, UT 84112 (801)585-0493

nitin.phadnis@utah.edu

UVirginia LabAssist EvolGeneticsBehavior

LABORATORY AND RESEARCH SPECIALIST

The Brodie Laboratory in the Department of Biology is seeking a Laboratory and Research Specialist I. This position maintains insects and reptiles before, during and after experiments, and breeds animals for studies. Incumbent performs DNA extraction, isolation and preparation, PCR and sequencing reactions including microsatellite analysis, BAC library screening. Incumbent is also responsible for data collection, entry, analysis, and presentation, including analysis and transcription of video records of behavior. Cleans and maintains experimental equipment and cages and is responsible for day-to-day administration of the laboratory including: training and coordination of student personnel associated with animal care efforts, and purchasing and receiving of laboratory supplies. Incumbent interacts with and assists other laboratories with similar techniques.

A Bachelor's degree in Biology or a related field is required. At least one year of work in a laboratory setting, including experience handling and caring for animals for behavioral studies and experience manag-

ing DNA analysis equipment and molecular techniques. Experience as a student will be considered.

To apply, please complete an application on-line and attach a cover letter, Resume/CV, and the contact information for three references through Jobs@UVA – https://jobs.virginia.edu – search on posting number 0612620.

The University of Virginia is an affirmative action/equal opportunity employer committed to diversity, equity, and inclusiveness.

bbrodie@virginia.edu

UWashington LabTech EvolutionaryGenetics

The Promislow lab, recently relocated to the University of Washington in Seattle, WA, is seeking qualified applicants for a Research Tech I position to work in a Drosophila genetics lab. The Promislow lab uses a variety of approaches, including quantitative genetics, molecular genetics, systems biology, behavior, demography, and physiology, all with a view to better understanding the biology of aging. The ideal applicant will have at least a Bachelor's degree in a related field, and experience using genetic techniques, preferably in a Drosophila lab. Required tasks may vary, from routine stock maintenance and crosses, to DNA and RNA extraction and PCR, to behavioral observations and analysis. The successful candidate will have outstanding organizational skills, excellent verbal and written communication skills , basic computer skills (ideally with both PC and Mac), be comfortable with supervising others, and be willing to learn new techniques. To learn more about the lab, see http://-www.promislowlab.org . The position is initially available for two years, and may be extended, but the University of Washington policy is to offer a one-year appointment with subsequent renewals. Start date is flexible, but could be as early as Sept. 1st. To apply, go to http://www.washington.edu/admin/hr/jobs//, click on $B!H(BSTART your job search$B!I(B, and enter the number 98003 in the Req# search space. In addition to the online application, please send a cover letter, a copy of your CV and the names and contact info of two referees directly to Daniel Promislow at promislo@uw.edu. All applications received by Aug. 9th, 2013 will be given full consideration.

The University of Washington is an affirmative action, equal opportunity employer. The University is building a culturally diverse faculty and staff and strongly encourages applications from women, minorities, individuals with disabilities and covered veterans.

Daniel Promislow Department of Pathology University of Washington 1959 NE Pacific Street Box 357705, Room K-078 Seattle, WA 98195 ph: 206 616-6994 e: promislo@uw.edu

Daniel Promislow <promislo@uw.edu>

UWisconsin Milwaukee Conservation

UNIVERSITY OF WISCONSIN MILWAUKEE Full-time Lecturer in Conservation and Environmental Sciences

The interdepartmental undergraduate major in Conservation and Environmental Science at the University of Wisconsin-Milwaukee is seeking applicants for a full-time lecturer position. The initial contract term will be for 9 months with the possibility for renewal.

The Conservation and Environmental Science Program is an interdepartmental, interdisciplinary program within the College of Letters and Science, focused on serving undergraduates with interest in environmental sciences and issues of sustainability. CES currently serves over 280 undergraduates, with the mission of supplying them wit h the knowledge, skills, and abilities to excel in environmental fields and meet the challenges of sustainability.

The primary teaching responsibilities will include an upper-level course in Principles of Natural Resource Management and the senior research capstone. Additional teaching assignments may include our large-lecture introductory class. Under the direction of the CES Director and CES Program Coordinator, the successful candidate will also advise CES majors on courses and career opportunities, develop and manage research opportunities and internships for CES majors, and assist with program administration, office support, curriculum development, and other duties as assigned by Director and/or Program Coordinator.

A master's degree in environmental sciences or related field and 2 years teaching experience at the university level are required. Preference may be given to candidates with a PhD degree in environmental sciences

or related field, those who have experience working in resource management in either governmental agency or private-sector settings, and those who have experience applying for extramural grants. Additional information about the program is available at http://www4.uwm.edu/letsci/ces . Applicants should submit a letter of interest, curriculum vitae, statement of teaching philosophy, and the names and contact information for three references online at https://jobs.uwm.edu/postings/15059 . Deadline for submittal to ensure full consideration is July 25, 2013. Questions may be a ddressed to Dr. Glen Fredlund, email: fredlund@uwm.edu.

The University of Wisconsin-Milwaukee is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply for this position.

Required:

Masters in Environmental Science or Related Field 2 years teaching experience at University level

Preferred:

PhD in Environmental Science or Related Field Experience working in Resource Management with Government Agencies or Private Sector Experience in applying for extramural grants.

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

Email: latch@uwm.edu Tel: 414-229-4245 Web: http://www.people.uwm.edu/latch

latch@uwm.edu

UppsalaU Bioinformatics

Job: Bioinformatician in genome annotation

A position as bioinformatician is available at the Department of Medical Biochemistry and Microbiology, Uppsala University, Sweden. The position is available as soon as possible and not time-limited, with a 6 months trial period.

Overview

The Swedish BILS initiative (Bioinformatics Infrastructure for Life Science, http://bils.se) provides bioinformatics infrastructure and support across Swedish universities. We are seeking a motivated bioinformatician to join their newly established genome annotation team at Uppsala University. The main task of the group will be to support genome projects conducted in Sweden or with Swedish participation and to provide quality and detailed annotations to facilitate downstream analyses of the highest possible standard.

Job description

The majority of the work will be based on the EnsEMBL code base and involves the setting up and running of complex pipelines as well as manual inspection and curation of annotations. A strong focus will also be placed on the analysis and integration of next generation sequencing data into the annotation process as well as comparative genomics analyses. Finally, members of the group will be involved in consulting research groups to help them set up their genome projects and may take part in nation-wide teaching activities, including workshops.

Qualifications

We seek a candidate with a PhD in bioinformatics, molecular biology, computer science or any related field and strong proficiency in Perl programming. The successful applicant will have previously worked in genome analysis and ideally has experience in genome annotation. Prior experience with the EnsEMBL infrastructure (API, databases) and gene build pipeline is a big plus. Additional skills that will be given consideration include the analysis of RNA-seq data as well as the administration of relational databases and linux servers. Excellent communication skills in written and spoken English are required, since the candidate will collaborate with scientists of very different backgrounds. Emphasis will be placed on personal suitability for the position.

Further information

For questions regarding BILS, please check out our website at http://www.bils.se or contact the director of BILS, Bengt Persson (bengt.persson@bils.se). For questions regarding the position, please send an Email to Marc Hoeppner (marc.hoeppner@imbim.uu.se).

Information about the city of Uppsala can be found here: http://www.uppsala.se/sv/Uppsalase/English-startpage/ Further information about Uppsala University may be found here: http://www.uu.se/en/?languageId=1 To submit your application, please see the university's job listings at http://www.uu.se/jobb/others/annonsvisning?tarContentId=250408&languageId=1

"Marc P. Hoeppner" <marc.hoeppner@imbim.uu.se>

UppsalaU EvolEcol

Assistant Professor in Animal Ecology

2013-07-09

at the Department of Ecology and Genetics Application no later than 2013-08-29, UFV-PA 2013/2001

The Department of Ecology and Genetics is included in the Evolutionary Biology Centre, one of the world's major centers for evolutionary biology research and education. The program in Animal Ecology has about 60 employees and a strong empirical profile of internationally leading research of natural model system in the field and in the laboratory environment (http://-www.ebc.uu.se/forskning/IEG/zooeko/), but have recently also started purely theoretical research. The Department of Ecology and Genetics have programs in plant ecology, limnology and evolutionary genetics enabling interdisciplinary collaborations.

Description of the subject area: The subject comprises mainly empirically and theoretically oriented animal ecology and evolution, for example studies of speciation, conservation biology, life history evolution, sexual selection and sexual conflict in animals, but the position is not limited to these areas. Teaching involves teaching at the undergraduate and graduate level in biology, evolution and ecology.

Duties: The position includes teaching, research and administration. Teaching duties include course responsibility, course administration and supervision of second- and third-cycle students. The holder shall also keep abreast of developments within the subject area and the developments in wider community that are significant for the work at the university. A position as postdoctoral research fellow is intended to qualify the holder for a teaching position with higher qualification requirements.

Appointment Period: The position can be held for a maximum of four years.

Qualifications Required: According to Uppsala University's appointments regulations those qualified for appointment as postdoctoral research fellow are persons who have obtained a doctoral degree or achieved the equivalent competence no more than seven years prior to the end of the application period.

According to Uppsala Universitys appointments regulations, teaching expertise is an eligibility requirement for appointment as a postdoctoral research fellow/assistant professor. To obtain teaching expertise, the applicant should have participated in teacher training for higher education of relevance to operations at the University, comprising at least five weeks, or be considered to have acquired the equivalent competence. If it has not been possible to acquire this qualification prior to employment, qualifying training for teachers in higher education shall be completed during the first two years of employment.

A general eligibility requirement is that the applicant must possess the personal capabilities necessary to carry out fully the duties of the appointment.

Documented ability to teach in Swedish or English is a requirement unless special reasons prevail.

Assessment Criteria/Ranking Research Expertise and Teaching Expertise: The ranking of eligible applicants will be based primarily on research expertise. Research expertise comprises research merits as well as the applicants potential to contribute to the future development of both research and teaching. In assessing research expertise special weight will be attached to research merits in animal ecology or evolutionary ecology.

Teaching expertise will also be afforded consideration. Teaching expertise comprises educational and teaching qualifications. In assessing teaching expertise teaching quality must be the prime consideration. The scope of teaching experience, in terms of both breadth and depth, must also be afforded consideration.

All merits must be documented in a manner that makes it possible to assess both quality and scope.

In filling this position the University aims to appoint the applicant who, following a qualitative holistic assessment of her/his competence and expertise, is judged to have the best potential to carry out and develop the relevant duties and to help advance operations.

In an overall assessment of the applicant's qualifications, parental leave, part-time work relating to care of children, union assignments, military service, or the like are to be regarded as work experience.

Uppsala University strives for a more even gender balance in its research and teaching staff. Since most teachers of the Faculty are men, women are especially invited to apply for this position.

For further information about the position, please contact Professor Mats Björklund (Head of Animal Ecology), tel 018-471 26 66, e-mail Mats.Bjorklund@ebc.uu.se, or Professor Ulf Lagercrantz (Head of the Department of Ecol-

ogy and Genetics), tel. 018-471 2860, e-mail ulf.lagercrantz@ebc.uu.se. Trade-union representatives are Anders Grundström, SACO (Swedish Confederation of Professional Associations),

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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

WashingtonStateU PlantInsectPathogenInteractions

NOTICE OF VACANCIES Faculty Positions in Areas of Molecular Plant-Insect and Plant-Pathogen Interactions

Two departments in the College of Agricultural, Human, and Natural Resource Sciences (CAHNRS) at Washington State University (WSU) in Pullman, WA are seeking to fill Assistant Professor positions in the areas of molecular biology and genomics of the interactions between plants, insects and pathogens as part of a cluster hire. The Department of Entomology (Ento) seeks candidates in research areas that may include plant-insect communication, plant-insect co-evolution, the induction and evasion of plant defenses, and/or adaptation to climate change. The Department of Plant Pathology (PlP) seeks candidates in research areas that include molecular and genomic approaches to studying plant disease resistance and plant responses to pathogen infection. The successful candidates in either position are expected to have experience with modern genomics/proteomics approaches and will further strengthen collaborative links with multiple departments and colleges at WSU and the nearby University of Idaho. Applicants should review the descriptions of responsibilities and qualifications for each position and should submit required application materials to the WSU on-line application system Ento position: www.wsujobs.com/-applicants/Central?quickFindX747. PlP position: www.wsujobs.com/applicants/Central?quickFindX744 . Applicants interested in either position will need to upload their application materials at both links. The successful candidate for each search will be housed in the respective department. Screening date: August 31, 2013. For questions contact Jeb Owen (Ento), 509-335-7873, jowen@wsu.edu or Scot Hulbert (PlP) 509-335-3722 scot_hulbert@wsu.edu. WSU is an EO/AA/ADA employer and educator.

"Williams, Adam C" <adam.williams@wsu.edu>

Other

Amplicon assembly

Dear All,

I've been asked to help in assembling/alignment reads from Ilumina (paired-ends) to a short reference sequence. The reads are amplified fragments of both cDNA and gDNA thus they contain large indels. There are several individuals sequenced in that run - the tags are of course right before the amplification primer. In the same run there are also sequences from other loci (other experiments)

I am looking for a software or pipeline that is able to: a) recognize individual tags, b) trim primers, c) handle indels during sequence alignment/assemblage, d) create fasta file/files with individual sequences of the whole fragment (with gaps filled by reference or by N's)

The refined file is to be used to design new primers. The best solution for me would be some Windows based program, or Perl/Python script that could be ran in Windows, however Linux based programs are also of interest to me.

Cheers Maciek

– ___ Instytut Ochrony Przyrody PAN al. Mickiewicza 33 31-120 Kraków

konopinski@iop.krakow.pl

CanInstEcolEvol WorkingGroups CallProposals 2

NEW CALL FOR PROPOSALS

The Canadian Institute of Ecology and Evolution (CIEE1) seeks proposals for Thematic Programs (Working Groups) to be staged over the 12 month period from Sept 2013 to August 2014. Thematic Program proposals should outline a plan to address significant questions in ecology and evolution through synthesis and integration of existing data (e.g., quantitative research synthesis, compilation and meta-analysis of existing data sets, etc.)

Program applicant(s) will define the project or course scope, schedule meeting dates, prepare a budget, and submit a final report to the CIEE. The proposals will also oversee prompt publication of project results.

Working group meetings can be held at any location in Canada, however preference will be given to meetings hosted at member organizations. In addition, the CIEE provides facilities and logistic support at the Synthesis Centre of the Institute of Environmental Change and Society (IECS), in the University of Regina. These 6,500 sq-ft new research facilities include dedicated meeting facilities, break-out rooms, a microcomputer laboratory, and on-campus housing, and are available every year during the summer period 01 May to31 August.

Application Procedures:

Proposals can be submitted in either official language and should be comprised of the following:

1.A cover page including the project title, name and complete contact information for the organizer(s), and project summary (max. 300 words), suitable for public circulation.

2.A one-page, single-spaced narrative that includes: an introduction to the project goals; description of the activities, and as appropriate, the source of the data to be synthesized and methods of analysis; IT needs; expected outcome(s); importance to Canada.

3.A list of participants, with a brief summary of their expertise. Programs should involve 10 to 15 participants, including one or more graduate students. Indicate which individuals have committed to the project and which are potential participants.

4.A budget including logistics and transportation. In the past, working groups were awarded grants valued from $10,000 to $17,000.

5.A copy of NSERC's Form 100 or equivalent for the organizer(s).

Deadline: Submit the full proposal as a single Adobe pdf file by 16 August 2013 to: ciee-icee@uregina.ca

Suggestions:

Proposals should be clear and concise about project goals, procedures and anticipated outcomes. The CIEE is a national organization; therefore organizers should aim for geographic diversity and gender balance among the participants. Foreign participants are welcome.

Applicants are encouraged to contact the CIEE director, Peter Leavitt, and the Assistant Director, Diego Steinaker, with any questions, including those on content, budget and facilities.

Peter R. Leavitt

Director, Canadian Institute of Ecology and Evolution

1 The Canadian Institute of Ecology and Evolution/Institut canadienne d'ecologie et d'evolution (CIEE/ICEE) is a consortium of Canadian institutions with the mission of expanding and accelerating scientific discovery on the natural environment and its con-

tributions to the well-being. The CIEE extracts significant added value from Canada's research investment through programs that bring together top scientists working on diverse systems to pool data and do the higher level analyses that can resolve uncertainties, reveal novel insights, and identify promising new areas of inquiry. Its training programs aim to prepare the generation of scientists who will be called upon to address our most vexing environmental problems. In short, the CIEE accelerates scientific progress through programs that synthesize current knowledge and develop our future leaders. For more details on CIEE programs and activities, please visit our website at www.ciee-icee.ca
Ciee Icee <Ciee-Icee@uregina.ca>

EvolutionaryMorphometrics book

Dear All,

I am glad to announce that the Yellow Book on "Virtual Morphology and Evolutionary Morphometrics in the new millenium" is finally out and can be downloaded for free at: http://www.italian-journal-of-mammalogy.it/-public/journals/3/issue_241_complete_100.pdf The full list of contents is at the bottom of the message. It's a broad range of topics (from the latest review on geometric morphometrics to visualization techniques, comparative and resampling methods, comparisons of trajectories, semilandmark methods, examples of applications in R as well as topics such biomechanics, modularity/integration, lines of least evolutionary resistance, ecometrics, taxonomic identification and bioacoustics, and more). To my knowledge, these are not only the most updated and probably complete reviews/example studies available on these issues but also and most often cover aspects that you will not find anywhere else in the literature. I hope you will enjoy the reading!

I would like to thank again a lot all contributors, Anna Loy (who coedited the volume), Damiano Preatoni (tech. editor) and the whole editorial board and staff of Hystrix (http://www.italian-journal-of-mammalogy.it/), as well as the Associazione Teriologica Italiana, who sponsored the publication and covered all costs.

I take this chance to remind you that we hope very soon to see the impact of Hystrix increase rapidly and we are looking forward to receiving high quality contributions on mammals from morphometricians and other fields of science. Please, be also aware that there is a 500 EUR Best Paper Award for young researchers.

Sincerely

Andrea

PS My apologies if some of you will receive this message twice!

VOL 24, NO 1 (2013): VIRTUAL MORPHOLOGY AND EVOLUTIONARY MORPHOMETRICS IN THE NEW MILLENIUM

On growth and form in the "computer era": from geometric to biological morphometrics Andrea Cardini, Anna Loy A field comes of age: geometric morphometrics in the 21st century Dean C Adams, F. James Rohlf, Dennis E. Slice Visualizations in geometric morphometrics: how to read and how to make graphs showing shape changes Christian Peter Klingenberg Morphometrics and the comparative method: studying the evolution of biological shape Leandro Rabello Monteiro Phylogenetic Principal Components Analysis and Geometric Morphometrics P. David Polly, A. Michelle Lawing, Anne-Claire Fabre, Anjali Goswami Cranial integration and modularity: insights into evolution and development from morphometric data Christian Peter Klingenberg A brief review of shape, form, and allometry in geometric morphometrics, with applications to human facial morphology Philipp Mitteroecker, Philipp Gunz, Sonja Windhager, Katrin Schaefer Studying ontogenetic trajectories using resampling methods and landmark data H. David Sheets, Miriam L. Zelditch Phenotypic trajectory analysis: comparison of shape change patterns in evolution and ecology Michael Lloyd Collyer, Dean C Adams The direction of main phenotypic variance as a channel to evolution: cases in murine rodents Sabrina Renaud, Jean-Christophe Auffray Log-Shape Ratios, Procrustes Superimposition, Elliptic Fourier Analysis: Three Worked Examples in R Julien Claude Semilandmarks: a method for quantifying curves and surfaces Philipp Gunz, Philipp Mitteroecker Geometric Morphometric Approaches to Acoustic Signal Analysis in Mammalian Biology Norman MacLeod, Jonathan Krieger, Kate E. Jones Applying geometric morphometrics to compare changes in size and shape arising from finite elements analyses Paul O'Higgins, Nicholas Milne Shape descriptors as ecometrics in dental ecology Alistair Robert Evans

http://www.italian-journal-of-mammalogy.it/public/-journals/3/issue_241_complete_100.pdf Dr. Andrea Cardini Researcher in Animal Biology, Dipartimento di Scienze Chimiche e Geologiche, Università di Modena e Reggio Emilia, l.go S. Eufemia 19, 41121 Modena, Italy Honorary Fellow, Centre for Anatomical and Human Sciences, University of Hull, Cottingham Road,

Hull, HU6 7RX, UK & University of York, Heslington, York YO10 5DD, UK Adjunct Associate Professor, Centre for Forensic Science , The University of Western Australia, 35 Stirling Highway, Crawley WA 6009, Australia

E-mail address: alcardini@gmail.com, andrea.cardini@unimore.it Webpage: http://-sites.google.com/site/hymsfme/drandreacardini
Datasets:

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Labs for 301Evolution Course

Dear Colleagues,

I am teaching a 301-level Evolution course that has weekly labs. I would like to hear about labs that have worked well for other people. All ideas for the class or resource suggestions are greatly appreciated.

Thank you for your time!

Best regards, Sher Hendrickson

S. Hendrickson-Lambert, PhD Assistant Professor of Biology Shepherd University Shepherdstown, WV 25443 ph. (304) 876-5448 fax. (304) 876-5028 shendric@shepherd.edu

sher.hendrickson@gmail.com

Melbourne VolunteerFieldAssist AvianPersonality

Volunteer field assistant(s): We are looking for field assistant(s) to help monitor a colour-banded population of superb fairy-wrens near Melbourne, Australia, for a study on animal personalities. Start: September/October 2013. Duration - 4 to 6 months. Duties include regular censusing of small colour-banded birds, searching for and monitoring nests, mist-netting, behavioural observations, video analysis, and data proofing. Good nest-searching skills are particularly important as nests need to be found before egg-laying commences. Working days are long, with early starts six days a week. Enthusiasm, self-motivation, and a strong work ethic are a must. The study is based at Serendip Sanctuary, a small reserve on the outskirts of Melbourne. Free onsite accommodation is provided in a house with a shared dorm-style room, but assistants cover travel to the site and their own food costs. The project will reimburse up to AUD$500/month towards receipted food and travel expenses. For more information contact: Michelle Hall (hall.mATunimelb.edu.au) and Raoul Mulder (r.mulderATunimelb.edu.au). To apply, please email a letter outlining previous relevant field research experience, and a resume including names and contact information for 3 referees.

Dr Michelle L Hall Research Fellow Department of Zoology, University of Melbourne Melbourne, VIC, 3010, Australia email: hall.m@unimelb.edu.au phone: + 61 3 83446232 www: Google Scholar Profile < http://scholar.google.com.au/citations?user=-3DBcsSi-YAAAAJ&hl=en&oi=ao >

hall.m@unimelb.edu.au

Plant species samples

Dear Evoldir members,

We are starting a genetic project on French populations of five rare plant species in France. The project is a collaboration between the National Museum of Natural History of Paris and the Conservatoire Botanique National du Massif Central in France. In order to evaluate the genetic differentiation of the French populations, we would be interested in analysing other populations from Europe. We would greatly appreciate the contacts of some people who would be able to help us to get some samples of these species: 1- Astrantia minor L. 2- Gladiolus imbricatus L. 3- Ranunculus lateriflorus DC. 4- Saxifraga hierciifolia Waldst. & Kit. Ex Willd. 5- Asplenium cuneifolium Viv.

Thank you for your help

Dr Florence Noël

f.noelboulain@free.fr

PoolSeq DNA requirements

Dear all,

I am hoping to get some good advice on what to expect from partially degraded DNA for Illumina (HiSeq) sequencing of pooled samples.

My samples seemed okay before pooling (i.e., showing a HMW band on a gel, DNA concentration verified with Qubit, diluted to 15-60 ng/ul). But after pooling (44 individuals for a population) and sending them off to a sequencing provider, they found no band when running a gel, and told me the samples are too degraded.

What have been the worst samples from which you still could get some useful results? Has anyone used degraded DNA, or did you always have a nice HMW band when running a gel (of pooled samples)?

Any advice and information about your experiences would be very appreciated.

All the Best, Stefan

Stefan Dennenmoser PhD Candidate Department of Biological Sciences University of Calgary, Canada Email: sdennenm[at]ucalgary.ca

sdennenm@ucalgary.ca

PoolSeq with degraded DNA answers

Dear all,

Many thanks for giving me some encouraging answers, and also for expressing interest in the question whether degraded DNA can be used for genome sequencing of pooled samples.

Judging on the few responses it seems possible to get good results from degraded DNA. One might also ask the sequencing provider to prepare a library first, and only proceed with sequencing if the library preparation works out. Thank you also for some good literature suggestions!

All the Best, and best of luck with your DNA, Stefan

ANSWERS:

(1) It really shouldn't be the case that you observe a HMW band for the samples individually, and then not when pooled. To me, this suggests some error when you did the pooling that caused you to lose the sample.

When you say "HMW", did you run it out alongside a standard, like lambda DNA? Did they see no band (nothing), or did they see a smear?

I'm not sure how you're purifying your DNA, but HMW DNA can sometimes take a long time to dissolve fully. If you run it out and it hasn't dissolved well, it can get stuck up in the wells and might look like a band. When it is later diluted substantially (say, for submission to the facility), it can finally dissolve and may then be smeary if the quality wasn't good. Sometimes residual RNA can cause the smear, too.

(2) I recently published a paper where we sequenced >600 paired-end plant samples on HiSeq and GA II platforms. We often found that highly degraded samples yielded a decent number of long scaffolds. My take is that sequencing centers are often too conservative, but it likely also depends on the intended use of the data on whether degradation is a major issue.

For more information see my 2012 publication in PLoS ONE available from my website www.evoeco.org . (3) check out the following articles:

http://www.biomedcentral.com/1471-2164/14/439
http://www.biomedcentral.com/1471-2164/14/12
Partially degraded samples should work fine. When pooling you should aim pooling samples of simiilar quality in addition to same quantity.

(4) 454 rather than illumina, but got some good data out of highly fragmented DNA showing smear on gel from 2kb down.

sdennenm@ucalgary.ca

Roberts and Company

David Baum and Stacey Smith's Tree Thinking: An Introduction to Phylogenetic Biology was a big hit. Unfortunately, we brought only a handful of copies to the meeting so, for the next two weeks (until July 15), we're extending our meeting discount of 50% off the list price of $75. You can purchase the book for $37.50 (plus $5 in shipping to anywhere in the US) from our site using the coupon code Trees.

Carl Zimmer and Doug Emlen's majors evolution textbook Evolution: Making Sense of Life has now been adopted at about 200 schools, including Cornell, Georgia Tech, Harvard, Princeton, University of British Columbia, University of California (at Berkeley, Los Angeles, San Diego, and Santa Barbara), University of Georgia, University of Texas, and a wide variety of other places. Most instructors and students appreciate the quality of the writing, the innovative artwork (often in the form of evo-grams), and the interactive app. In the app, many students have come to rely on the additional quiz questions (that appear after every section) to check their understanding of the key concepts. If you own an iPad and would like free access to the app, please let me know.

Carl Zimmer's second edition of his non-majors textbook The Tangled Bank: An Introduction to Evolution will publish in mid-August. If you teach a class and would like to see the new edition, please fill out our exam copy form. The second edition has been extensively revised. It includes an entirely new chapter focused on human evolution, for example, as well as discussions of additional concepts in evolution, new illustrations (over 285 photos and illustrations in all), and descriptions of new research.

Science magazine has just reviewed Doug Erwin and Jim Valentine's The Cambrian Explosion. For the next two weeks (until July 15), we're offering a discount of 33% off the list price of $60. You can purchase the book for $40 (plus $5 in shipping to anywhere in the US) using the coupon code Cambrian. We've had many requests for access to the critter artwork. You can see some of these incredible creatures at our book site (scroll to the bottom of the page). Illustrator Quade Paul, in close collaboration with Douglas Erwin, rendered the animals as accurately as possible. If you'd like JPEGs for your classes, please let me know.

Ben Roberts <bwr@roberts-publishers.com> Ben Roberts <bwr@roberts-publishers.com>

RohlfMedal CallNominations

2013 CALL FOR NOMINATIONS

The Rohlf Medal

The Rohlf Medal was established in 2006 by his family and friends to mark the 70th birthday of F. James Rohlf, Distinguished Professor of Ecology and Evolution and longtime Stony Brook University faculty member. Recipients of the Rohlf Medal will be recognized for excellence in their body of work on the development of new morphometric methods or for their applications in the biomedical sciences, including evolutionary biology, population biology, physical anthropology, and medicine. The term "morphometrics" is intended to include high-dimensional pattern analyses of biological shape, especially those that analyze shape in a comprehensive way, or of covariation of shape patterns with other variables. The award can recognize advances in the mathematical or statistical theory underlying morphometric methods, new software that implements or visualizes new methods, or specific new biological findings that rely crucially on contemporary morphometric methods and represent major advances.

Candidates for the Rohlf Medal may be self-nominated or nominated by others. They must have attained the postdoctoral level or its equivalent. Nomination packages should include (1) a description of the body of work (not to exceed two pages) on which the candidacy is based, (2) reprints of no more than three relevant papers and/or software products, (3) a curriculum vitae, and (4) the names and addresses of three referees. Nominating packages should be uploaded to the Rohlf Medal website (http://life.bio.sunysb.edu/-ee/rohlf_medal/apply.html) and received by 15 August 2013 to be assured of full consideration.

The successful candidate will receive the Rohlf Medal and a cash prize at Stony Brook University in mid-Fall 2013 (final date to be determined). She or he will deliver a lecture that is appropriate for an educated general audience concerning the morphometric research for which the Rohlf Medal was awarded.

Dean

Dr. Dean C. Adams Professor Department of Ecology, Evolution, and Organismal Biology Department of Statistics Iowa State University Ames, Iowa 50011 www.public.iastate.edu/ ˜ dcadams/ phone: 515-294-3834

"Adams, Dean [EEOBS]" <dcadams@iastate.edu>

Scoring alleles using GeneMarker

Hi all,

I was hoping I could get some advice from folks that have experience using GeneMarker (or similar soft-

ware). I am currently working on scoring alleles from 11 microsatellite markers designed specifically for Onychomys leucogaster, using GeneMarker. The actual software is biologist friendly (like they claim) and fairly easy to use; however, I am finding that some markers have more alleles than I expected. I've been told that this is a fairly common problem due to Taq slippage during amplification that may result in multiple PCR products and can be resolved by modifying the panel. I am hesitant to delete alleles without having sound criteria for doing so and was hoping I could get some advice on how to develop this criteria. I would also be interested in any workshops where I can obtain these skills. My institution does not currently have a population biologist on its faculty and reading user manuals has only gotten me this far.

Also, I wanted to know whether folks got significantly better results by purifying PCR products prior to fragment analysis, especially those that multiplex loci post-PCR.

Thanks, Karla

Karla L. Flores MSc. Candidate Department of Biological Science California State University, Fullerton 800 N. State College Blvd Fullerton, CA 92831 (657) 278-2067 kflores2004@csu.fullerton.edu

Karla Flores <kflores2004@csu.fullerton.edu>

Shipping live crickets

Dear EvolDir members,

We are planning to collect field crickets (Gryllus spp) in the US this fall and we want to bring living specimens from Florida back to Berlin. Has anyone experience in taking live crickets (or other harmless insects) from the US to continental Europe? Is it possible to take them with you on the plane, either in the cabin or in the section where dogs and cats usually are? Does it matter which airline one travels with? Or is shipping via postal services the better option anyway? All information will be highly appreciated.

kind regards,

Thomas Blankers

PhD-student at Humboldt University and the Museum für Naturkunde, Berlin, Germany

thomasblankers@gmail.com

Thomas Blankers <thomasblankers@gmail.com>

mtDNA diversity answers

Hi all,

a month ago I posted the question below on Evoldir. I'll make available all answers. You can download a compiled PDF here: https://dl.dropboxusercontent.com/-u/40499866/summary.pdf . There is also an extensive list of article PDFs that were attached or suggested. You can find instructions for download all of these papers in the compiled PDF. Thanks for all your input! This is amazing!

If you have further questions or comments, let me know. Right now we have not integrated all comments into our paper but this will happen over the next months (it is summer now and everybody gone for holidays...)

Cheers, robert

On 24.06.2013 07:25, evoldir@evol.biology.mcmaster.ca wrote: > Dear colleagues, > In one of my datasets I found a striking pattern of high mtDNA diversity > (nice, reticulated haplotype network; not star-like) but low > microsatellite diversity. In all other cases I'm aware of, the pattern > is reversed because mtDNA drifts faster than nucDNA, or is selectively > swept every now and then. In the quest to understanding this I'd be > curious to read about examples with a similarly biased diversity pattern > (high mtDNA div but low microsatellite div). I tried literature data > bases but could not find anything useful. Adaptive/Selectionist > hypotheses are an option, too, but as my nucDNA is microsatellite this > is only sort of the second route I would follow. Is anyone here aware of > a paper they could send me? (high mtDNA div vs. low nucDNa div) > > Cheers, > Robert > > rkraus@senckenberg.de > >

robert.kraus@senckenberg.de

PostDocs

Barcelona PhD PDF Bioinformatics

Open Bioinformatitian, PhD candidate, and Postdoc position in comparative genomics at CRG, Barcelona, Spain

Dear Fellows,

Bioinformatician, PhD and postdoctoral positions are available in the group of Dr. Toni Gabaldón in the Bioinformatics and Genomics Department of the Centre for Genomic Regulation (CRG, http://-gabaldonlab.crg.es).

All positions are for 3 years with possibility of extension. Start dates range from autumn 2013 to early 2014. The persons will be fully integrated in an international and inter-disciplinary team, where they will enjoy the vibrant scientific environment at CRG and Barcelona, and will have access to high-level training.

Interested individuals should send a cover letter stating the specific motivation to join the lab and the project, CV, and the names of 2 references to Toni Gabaldón at tgabaldon@crg.es with the subject [APPLICATION]. Applicants intending to apply for external grants in the Gabaldón lab are also welcome if fitting within one of the group directions.

For more information please find attached the URL to the advert.

http://genome.crg.es/ ~ tgabaldon/-Gabaldonlab_positions_2013.pdf Your help forwarding the advertisement to interested parties is much appreciated.

Thank you & kind regards, Zsuzsa

Toni Gabaldon <toni.gabaldon@crg.eu>

BiK-F Frankfurt ExperimentalPopulationGenomics

PhD or part time (66%) Postdoc position on Experimental Population Genomics for 36 months is available in the Molecular Ecology Lab of Markus Pfenninger, Biodiversity and Climate Research Centre, Frankfurt/Main, Germany (DFG funded project)

I am looking for a highly motivated and independent researcher to study the genomic basis of local climate adaptation in the non-biting midge Chironomus riparius. Local adaptation to varying environmental conditions is a key process for the evolution of biodiversity. Ambient temperature is a crucially important factor for ectothermic organisms, because it determines the rate of metabolic processes and thus all processes from development to reproduction. This suggests that populations of a species should adapt to prevailing local temperatures. However, little is known about the genomic basis of local metabolic temperature adaptation, particularly in non-model organisms. In this project, we strive to unveil the genomic basis of observed local adaptation in an ecologically important species, the non-biting midge (Chironomus riparius Meigen 1804) to a temperature gradient across Europe. To this end, we combine ecological experiments, genome scans and repeated experimental evolution in an innovative fashion. The position thus requires taking field-trips to collect wild C. riparius populations, establishing lab populations, performing common garden experiments in experimental facilities, preparing and conducting population genomic analyses and publication of the data.

Applicants must hold a Diploma/Master degree and prove advanced education in two or more of the following fields: genomics, bioinformatics and/or population genetics. Proficiency in English is required. Experience with ecological experiments is an asset. The Biodiversity and Climate Research Centre supports equal opportunity of men and women and therefore strongly invites women to apply. Equally qualified handicapped applicants will be given preference. The type of handicap should not prevent work needed to conduct the research. The duty station will be Frankfurt am Main, Germany. The employer is the Goethe-University. Salary and benefits are according to a public service position in Germany (TV-G-U E13, 65%). Applications (CV, letter of motivation, and contact of two referees) should be sent to Pfenninger@bio.uni-frankfurt.de until the 15th of July 2013. The position is for three years. Due to the biology of the midges, starting date is as soon as possible.

The Biodiversity and Climate Research Centre (BiK-F) has been founded by the Senckenberg Gesellschaft fuer Naturforschung, the Goethe-University Frankfurt am Main, and additional partners. It is funded by the Federal State of Hessen through its Initiative for the Development of Scientific and Economic Excellence (LOEWE). The mission of the centre is to carry out internationally outstanding research on the interactions of biodiversity and climate change at the organism level.

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

pfenninger@bio.uni-frankfurt.de

Dublin MammalEvolution

Postdoc position, Dublin, 12 months.

A 12 month postdoctoral position is available at Dr Mary O'Connell's Bioinformatics and Molecular Evolution Group, Dublin City University, Ireland. The group is focussed on mammal evolution and the evolution of disease and resistance using comparative genomics and wet bench validation of predictions from in silico analyses (for further information please visit our website: www.mol-evol.org). Informal inquiries about the position are welcome - please contact Dr O'Connell directly.

We are looking for a highly motivated, and enthusiastic postdoctoral scientist with a background in molecular evolution and ancestral protein reconstruction. The candidate should be proficient in wet bench laboratory skills associated with this field including: rational mutagenesis, cloning, protein functional assays and mammal cell culture. A strong track record of publishing in molecular biology and evolution are essential as are excellent verbal and written communication skills. The candidate should have a genuine interest in solving evolutionary problems using a variety of approaches. Proficiency in at least one programming language (such as R, Python or Perl) is also essential.

The project focusses on differential selective pressures in the evolution of proteins in human and mouse and the functional consequences of adaptive evolution in

components of the innate immune system. The candidate will assess predictions of divergence in protein function using ancestral protein reconstruction and cell models for inflammatory response.

The closing date for applications is the 5th August. All applications to be submitted to mary.oconnell@dcu.ie

The preferred starting date for the position is October 1st 2013 (or as close as possible to that date). The position is initially for 12 months with the possibility of contract extension.

Mary O'Connell <drmary.oconnell@gmail.com>

GeorgiaTech EvolDevBiol

MULTIPLE POSTDOCTORAL POSITIONS in (i) developmental biology, (ii) behavior and (iii) evolutionary genomics are available in the laboratory of Prof. Todd Streelman, at the Georgia Institute of Technology. Successful candidates will be expected to carry out independent research contributing to an understanding of how neural, sensory and craniofacial systems evolve diversity. Experience in developmental biology, neuroscience, dental biology, computational and/or experimental genomics is desired.

Representative recent publications from Streelman's group can be found here:

http://www.ncbi.nlm.nih.gov/pubmed/23612286
http://www.ncbi.nlm.nih.gov/pubmed/23422830
http://www.ncbi.nlm.nih.gov/pubmed/23275489
http://www.ncbi.nlm.nih.gov/pubmed/23106702
http://www.ncbi.nlm.nih.gov/pubmed/21169229
http://www.ncbi.nlm.nih.gov/pubmed/20439726
http://www.ncbi.nlm.nih.gov/pubmed/19215146 The Georgia Institute of Technology is one of the top 30 research universities in the world, offering exciting avenues for collaboration with biomedical engineers and computational scientists, and world-class facilities. Georgia Tech was recently voted one of the best places to work in the US, and Atlanta is consistently ranked among the top ten places to live for young professionals. Interested individuals should contact Todd Streelman by e-mail (todd.streelman@biology.gatech.edu).

J.T. Streelman G. Norman Bisanar Associate Professor School of Biology Petit Institute for Bioengineering and Bioscience Georgia Institute of Technology 310 Ferst Drive Atlanta, GA 30332-0230 404-385-4435 (office) 404-385-4436 (lab) 404-385-4440 (fax) E-mail: todd.streelman@biology.gatech.edu http://www.biology.gatech.edu/faculty/todd-streelman/ todd.streelman@biology.gatech.edu todd.streelman@biology.gatech.edu

Hinxton ParasiteGenomeFunction

Please note the 26 July deadline is approaching fast!

THREE-YEAR POST-DOCTORAL FELLOWSHIP IN COMPARATIVE GENOMIC INSIGHTS INTO PARASITE GENOME FUNCTION

Applications are invited for a three-year post-doctoral fellowship held jointly at the Sanger Institute and European Bioinformatics Institute under these institutes' "ESPOD" fellowship programme (http://-www.ebi.ac.uk/research/postdocs/espods).

The above webpage includes a link to an abstract of this project (and others in the programme). Full project details are available at http://www.ebi.ac.uk/-sites/ebi.ac.uk/files/groups/research_office/Goldman-Berriman.pdf The successful candidate will work in the Goldman Group at EMBL-European Bioinformatics Institute (http://www.ebi.ac.uk/research/goldman) and Matt Berriman's Parasite Genomics group at the Sanger Institute (http://www.sanger.ac.uk/research/-projects/parasitegenomics).

Applications should be sumitted by e-mail to the EBI Research Office <roffice@ebi.ac.uk> by 26 July 2013.

Nick Goldman tel: +44-(0)1223-492530 EMBL - European Bioinformatics Institute fax: +44-(0)1223-494468 Wellcome Trust Genome Campus, Hinxton, Cambridge CB10 1SD, UK

ICIPE LeishmaniAdaptation

Postdoctoral Research Fellow position

Leishmaniasis risk determinants: Assessing environmental and ecological factors associated with sandfly vector occurrence

icipe wishes to urgently recruit a suitable person to fill the position of POSTDOCTORAL RESEARCH FELLOW in the project entitled: "Leishmaniasis risk deter-

minants: Assessing environmental and ecological factors associated with sandfly vector occurrence" in the Adaptation to Climate Change and Ecosystem Services Cluster. A competitive compensation package will be offered to the right candidate.

He/she would be expected to be among a team providing scientific support for assessing environmental and ecological factors associated with sandfly vector occurrence. The workplan includes a thorough analysis of previous R&D of icipe on sandflies and ongoing studies on leishmaniasis in the region. The successful candidate will have the opportunity to closely interact with globally renowned scientists in leishmaniasis research, develop proposals and build capacity in this subject.

Overall purpose of the job: To undertake research pertaining to leishmaniasis risk determinants

Knowledge required for performing the job - Proficiency in use of statistical tools, especially R and other related statistical software. - Prior experience in leishmaniasis research will be preferred.

Disposition - Ability to work in a multi-cultural environment with minimal supervision. - Eagerness to learn new techniques and publish research outcomes in peer-reviewed journals. - Good communication skills. - Ability to mentor technical staff and students and demonstrate leadership skills.

Requirements/Qualifications - PhD in entomology/medical vectors and related fields from a recognised university within the last two years. - Track record of peer-reviewed publications and proposal development.

Reporting This position reports to the three Principal Investigators. Candidates from Africa and females possessing the above-mentioned qualifications are especially invited to apply.

icipe â African Insect Science for Food and Health is an intergovernmental organisation funded by governmental aid agencies, UN organisations and private foundations to carry out research and training in environmentally sound and sustainable management of arthropods for improving health and agricultural productivity in the tropics. icipe has approximately 350 staff to support its research and capacity building programmes located at various sites in Kenya and Ethiopia.

Applications will be accepted up to 5th May 2013, or until the position is filled, whichever is earlier. Please quote the job reference number IRS/19/042013 on the envelope and application cover letter reference line, or email subject line. Only applications of shortlisted candidates will be acknowledged.

Please send an application (including current salary details), with a detailed CV, names and addresses of 3 referees (including e-mail addresses and fax numbers), and a one-page write-up on how you consider yourself suitable for the above job to:

icipehr@icipe.org

The Human Resources Department icipeâAfrican Insect Science for Food and Health P.O. Box 30772-00100 Nairobi Kenya

icipe is an Equal Opportunity Employer

"Jandouwe, Villinger" <jandouwe@icipe.org>

IGC Portugal CelegansExperimentalEvolution

A one-year postdoctoral position is open in the laboratory of Henrique Teotonio at the Instituto Gulbenkian de Ciência, Oeiras Portugal (www.igc.gulbenkian.pt).

Our research is focused on C. elegans experimental evolution to temporally heterogeneous environments. We are studying the role of natural selection under different breeding systems to the evolution of distributions in life-history, metabolism and gene expression traits. The project will be defined according to the candidates interests and previous experience.

The candidate will have a PhD in quantitative genetics or population genetics, with a strong background in QTL or GWAS mapping, ABC statistical analysis, analysis of selection gradients, modeling of demography or experimental evolution with eukaryotes. The candidates will also have the programming skills to conduct data mining and individual-based simulations. Experience with high-throughput data is preferred.

The position is funded by the European Research Council, for a monthly salary between 1600EUR and 2200EUR, depending on experience and track record, plus health insurance (for comparative price indices see http://stats.oecd.org/Index.aspx?QueryId=24057). The successful applicant can start as soon as September 2013.

A CV, a letter of motivation and the contact information of two referees should be sent by email to teotonio@igc.gulbenkian.pt. Applications will be reviewed until the ideal candidate is found. We welcome informal inquiries.

teotonio@igc.gulbenkian.pt

LavalU PhdPDF EvolSystemsBiol

PhD and postdoctoral positions in evolutionary systems biology at Laval University

One PhD (4 years) and one postdoctoral position (2-3 years) are available in the Landry Laboratory at Laval University (http://www.bio.ulaval.ca/landrylab). The candidate will work on a project funded by the Canadian Institutes of Health Research that aims at understanding the molecular and evolutionary mechanisms of robustness of protein networks and protein complexes using large-scale proteomics approaches. 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, microbiology, biochemistry and/or proteomics. The projects are mainly experimental but candidates with strong computational backgrounds who are willing to learn and perform experimental research are encouraged to apply.

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. PhD candidates should also include a low-resolution copy of official academic transcripts. The positions will remain available until filled. Starting dates could be between September 2013 and Mai 2014.

Christian Landry, PhD Associate professor CIHR New Investigator Département de Biologie Institut de Biologie Intégrative et des Systèmes/PROTEO Local 3106, Pavillon Charles-Eugène-Marchand 1030, Avenue de la Médecine Université Laval Québec (Québec) G1V 0A6 Canada

http://www.bio.ulaval.ca/landrylab Téléphone: 418-656-3954 Télécopieur: 418-656-7176

Christian Landry <Christian.Landry@bio.ulaval.ca>

London MolecularEvolution

Postdoctoral Research Fellow (3 Year fixed term)

From Â£31,180 to 35,860 pa inclusive London, UK

A 3 year postdoctoral position is available at the MRC Clinical Sciences Centre and Imperial College London to work in the Evolution of Molecular Systems group headed by Dr Tobias Warnecke. The group focuses on the evolutionary analysis of genome-scale biological sequence data to understand how various aspects of cellular biology affect evolutionary processes (for further information please visit http://www.csc.mrc.ac.uk/-Research/Groups/IB/EvolutionMolecularSystems/ or contact Dr Warnecke for an informal discussion about the post).

We are looking for an enthusiastic, creative postdoctoral scientist, preferably with a background in functional or evolutionary computational genomics and experience in analyzing genome-wide data, particularly of the kind generated by next generation sequencing experiments (e.g. ChIP-Seq, RNA-Seq). The candidate should have a strong publication record in the field, excellent verbal and written communication skills, and a track record of addressing scientific problems in a innovative, thorough and efficient manner. The candidate should be proficient in at least one programming/scripting language (perl, python, etc.) and familiar with applying multivariate statistical analysis to complex data sets (ideally in the framework of the R programming language). A keen interest in evolutionary problems is highly desirable.

The project focuses on understanding the evolution of cryptic processing sites (splice sites, polyadenylation sites, etc.) in a variety of model genomes through integrating evolutionary and protein-RNA/DNA interaction data. In addition to the main project, the candidate will be able to develop and carry out his/her own line of research within the group's areas of interest and expertise. Strong candidates will enjoy a large degree of independence in determining the direction of their own research. We are not tied to a particular model system and candidates from both eukaryotic and prokaryotic backgrounds are equally encouraged to apply.

The Clinical Sciences Centre is an Institute funded by the MRC and is a Division of the Faculty of Medicine, Imperial College. Based on the Hammersmith Hospital

Campus in West London (W12), the CSC has first class facilities and provides investigators from clinical and basic science backgrounds with the opportunity to pursue innovative, multidisciplinary research within the established clinical base of Imperial College. For more information, visit www.csc.mrc.ac.uk . This post is a Career Development Fellowship to support post-doctoral scientists in early or changed career training and help establish them as successful research scientists in their chosen field. The Clinical Sciences Centre (CSC) is an institute funded by the Medical Research Council (MRC) and is a division of the Faculty of Medicine at Imperial College London, a thriving research environment with state-of-the-art facilities and equipment, including micro MRI and PET imaging.

Applications are handled by the RCUK Shared Services Centre; to apply please visit our job board at http://-www.topcareer.jobs and complete an online application form. Applicants who would like to receive this advert in an alternative format (e.g. large print, Braille, audio or hard copy), or who are unable to apply online should contact us by telephone on 01793 867003, Please quote reference number IRC100893

Closing date for all completed applications is 8th August 2013.

'The Medical Research Council is an Equal Opportunities Employer' Final appointment will be subject to pre-employment screening.

Tobias Warnecke INTERPOD Fellow Kondrashov lab Centre de Regulació GenÃ²mica Barcelona tobias.warnecke@crg.eu http://-big.crg.cat/people/twarnecke Tobias Warnecke <tobias.warnecke@crg.eu> Tobias Warnecke <tobias.warnecke@crg.eu>

MaxPlanckInst Leipzig ChimpanzeeEvolution

Max Planck Institute for Evolutionary Anthropology Pan African Program - Chimpanzee Ecology

The Department of Primatology at the Max Planck Institute for Evolutionary Anthropology in Leipzig, Germany is seeking a postdoctoral researcher for its Pan African program 'The Cultured Chimpanzee' (for more details on this project please see the report in Nature 476, 18 August 2011, pp. 266-269 & http://-panafrican.eva.mpg.de/).

More specifically, the research to be conducted will address questions related to the extent of the diversity and variability of ecological conditions across chimpanzee habitats including fauna, flora and the abiotic environment and how they affect aspects of chimpanzee biology. Within the Pan African Program, we are collecting a unique dataset on habitat structure, food resource availability, sympatric animal species, climate and human impact from more than 30 sites to learn more about the environments inhabited by chimpanzees.

Although we use standardized methods for all data collection, the entire dataset is very heterogeneous. Data processing and analysis will therefore require advanced and innovative statistical approaches for data integration and synthesis.

The successful candidate will therefore need excellent organizational and quantitative skills, including statistical and programming expertise. Furthermore, since this work will be directly linked to other projects within the Pan African Program, we expect the candidate to communicate well with other researchers for mutual benefit and integrate well into the department.

The position is available for a three year period from 1 January 2014, salary will be up to 36,000 Euros for German candidates depending on qualifications and an equivalent tax free stipend for foreign candidates.

Please send a Curriculum Vita, publication list, cover letter (including the contact information for two references) to Ms. Claudia Nebel (nebel@eva.mpg.de). Please reference "Postdoc chimpanzee habitat diversity-The Cultured Chimpanzee" in the subject line.

arandjel@eva.mpg.de

MaxPlanckInst Leipzig ChimpanzeeSocialDemography

Max Planck Institute for Evolutionary Anthropology Pan African Program - Chimpanzee Social Demography

The Department of Primatology at the Max Planck Institute for Evolutionary Anthropology in Leipzig, Germany is seeking a postdoctoral researcher for its Pan African program 'The Cultured Chimpanzee' (for more details on this project please see the report in Nature 476, 18 August 2011, pp. 266-269 and http://-panafrican.eva.mpg.de/).

More specifically, the research to be conducted will address questions related to the large-scale, range-wide variation of chimpanzee social and demographic structure, as well as investigate the respective contributions of underlying drivers leading to such variability. Within the Pan African Program we are using remote video traps for collecting a unique range-wide dataset on the social and demographic structure of more than 30 chimpanzee communities of all subspecies. Additionally, a wide spectrum of ecological context information on habitat structure, food resource availability and predators will be available.

Although standardized, the available dataset on chimpanzee social and demographic structure considerably differs from the common type of data that is available from long-term chimpanzee research sites. Data processing and analysis will therefore require new and innovative approaches including the application of available automated species detection software, the use of citizen science for species and individual classification and advanced statistical methods.

The successful candidate will therefore need excellent organizational and quantitative skills, including statistical and programming expertise. Furthermore, since this work will be directly linked to other projects within the Pan African Program, we expect the candidate to communicate well with other researchers for mutual benefit and integrate well into the department.

The position is available for a three year period from 1 January 2014. The annual salary will be up to 36,000 Euros for German candidates depending on qualifications and an equivalent tax free stipend for foreign candidates.

Please send a Curriculum Vita, publication list, cover letter (including the contact information for two references) to Ms. Claudia Nebel (nebel@eva.mpg.de). Please reference "Postdoc chimpanzee social and demographic structure-The Cultured Chimpanzee" in the subject line.

arandjel@eva.mpg.de

McGill PopulationGenetics

Job title: Postdoctoral position in statistical and population genetics

A new postdoctoral position in statistical and population genetics is available in Simon Gravel's group at McGill University in Montreal, Canada. The group focuses on population genetics methods to understand human evolution and demography, and on the analysis of high-throughput genomic data. The postdoctoral researcher will be involved in conceptual methods development, implementation, and applications to cutting-edge data.

The ideal candidate has experience with high-throughput biological data or population genetics and a strong interest in quantitative biology and methods development. Programming experience in at least one scripting language (e.g., perl, R, python) and/or one compiled language is preferred. We welcome applications from qualified candidates from diverse backgrounds, including biology, anthropology, mathematics, physics, computer science, and related fields.

The position offers an exceptional opportunity for independent research in a quantitative and theoretical lab with access to cutting-edge data. The McGill Human Genetics department and the McGill and Genome Quebec Innovation Centre, together with numerous nearby institutes in Montreal, provide a thriving academic environment.

Applications and queries should be sent to simon.gravel at mcgill.ca, and the subject line should include the job title. Please include a research statement and a CV, one of which should address programming experience– code samples or links to published/distributed code are welcome. Contact information for three references is required. Review of applications will begin immediately and will continue until the position is filled.

Simon Gravel,

Assistant Professor

McGill University and Génome Québec Innovation Center

Dept of Human Genetics, McGill University

Simon Gravel McGill University and Génome Québec Innovation Center Dept of Human Genetics, McGill University 740 Dr. Penfield - Room 7206 514-398-4400 #0753

simon.gravel@mcgill.ca

NewYorkU EvolutionaryGenomicist

POSITION FOR A POSTDOCTORAL EVOLUTION-

ARY GENOMICIST AT NEW YORK UNIVERSITY

A postdoctoral position is available for a highly motivated evolutionary genomicist with strong computational biology skills at the Center for Genomics and Systems Biology at New York University. The position is part of an NIH-funded International Center of Excellence in Malaria Research, and a collaborative project between the laboratory of Program Director Jane Carlton at NYU and the Broad Institute.

The postdoctoral fellow will drive the evolutionary/phylogeographic exploration of data from Illumina sequencing of several hundred malaria parasite genomes collected from around the globe and sequenced at the Broad Institute. Strong computational abilities to manipulate large datasets an asset but not as essential as expertise in population genomics theory and analytical approaches to studying genome evolution of microbes.

Applicants should have: (1) A detailed knowlege of next generation sequence data analysis. (2) Proficiency in evolutionary genomics methods and interpretation. (3) An ability to work with an interdisciplinary team. (4) Good spoken and written English.

Interested parties should email a CV and names of three references to Lab Manager Becca Susko at rs3357@nyu.edu, with Carlton Lab Evolutionary Genomics Position in the subject line. Applications received before Sept 1 2013 will receive full consideration. The position is available immediately.

The Carlton lab (http://cgsb.as.nyu.edu/object/-JaneCarlton.html) is located in historic Greenwich Village in downtown Manhattan, New York City. NYU is one of the worlds leading research universities and the Center for Genomics and Systems Biology is housed in a new, state-of-the-art facility. The Centers 14 faculty members study genomics and systems biology across all kingdoms of life, supported by a genome sequencing facility. For more information on the Center, see http://cgsb.as.nyu.edu/page/home . Thanks,

Jane

Jane Carlton <carltj01@nyu.edu>

NorthDakotaStateU QuantGenetics

The Dochtermann lab at North Dakota State University is looking to recruit a post-doctoral researcher. The position will primarily be focused on a quantitative genetics study of behavioral variation in crickets. More specifically we will be examining how populations of crickets genetically differ in regards to behavioral syndrome structure and test the mechanisms giving rise to behavioral syndromes and genetic correlations. Preference will be given to applicants with a background in quantitative genetics or arthropod behavior, or, ideally, both. There will also be ample opportunity to pursue research questions besides those of this particular study.

The position is for 2 years, contingent on performance, but may be extended.

Those interested should contact me at: ned.dochtermann@gmail.com for additional details regarding the project, position requirements, and application process. Please include your CV with your initial correspondence.

I will also be attending the Animal Behavior Society meeting in Boulder later this month and would be available to discuss the proposed project further at that time.

Formal departmental review of applicants will begin July 30th and continue until the position is filled.

Thanks, Ned Dochtermann

Ned A. Dochtermann Assistant Professor / Department of Biological Sciences *NORTH DAKOTA STATE UNIVERSITY* p: 701.231.7353 / f: 701.231.7149 / www.ndsu.edu https://sites.google.com/site/-neddochtermann/ ned.dochtermann@ndsu.edu

Ned Dochtermann <ned.dochtermann@gmail.com>

OhioStateU ComparativePhylogeographics

Post doc

The Carstens lab at The Ohio State University is looking for a post doctoral researcher who is interested in phylogeographic data analysis in general and developing new approaches to the analysis of comparative phylogeographic data in particular. Please see < http://carstenslab.org.ohio-state.edu/> and < https://-/sites.google.com/site/bryanccarstens/ > for general information about the lab, and contact Bryan directly if interested at <carstens dot 12 at osu dot edu>. The position could start as early as 2014.

Bryan C. Carstens Department of Evolution, Ecology,

& Organismal Biology The Ohio State University 318 W. 12th Avenue Columbus, OH 43210-1293

web: http://carstenslab.org.ohio-state.edu/ web: https://sites.google.com/site/bryanccarstens/ skype: bryan_carstens office: 614.292.6587 cell: 734.474.8527

Bryan Carstens <bryan.c.carstens@gmail.com>

OhioStateU MicrobialGenomics

Postdoctoral Researcher position

Genomics and microbial ecology of detritovorous insects

Qualifications: PhD in microbiology, molecular biology, biochemistry, evolutionary biology, population genetics or equivalent. Experience with command-line bioinformatics and genomics tools. Knowledge of Perl, Python, Ruby, C and/or C++.

Project: Two year (w/ a possible third year) position investigating the role of microbes in detritovorous insect host physiology and trophic niche choice. Microbial cultivation, genome sequencing, population dynamics modeling and fluorescence microscopy tools will be used to address this area of interest.

Salary: $40K+ w/ benefits (commiserate with experience).

Contact: Zakee L. Sabree, PhD (sabree.8@osu.edu) and include "Postdoc2014" in the Subject Heading.

Please send CV/resume, three professional references and one (co-)authored, published paper. A link to the paper is fine.

Informal inquiries are welcome and applications will be reviewed until the position is filled.

Zakee L. Sabree | Assistant Professor Department of Evolution, Ecology and Organismal Biology The Ohio State University https://u.osu.edu/sabreelab/ "Sabree, Zakee L." <sabree.8@osu.edu>

OregonStateU EvolutionaryGenetics

A postdoctoral position is available in Dee Denver's lab at Oregon State University.

Check out our website:

http://denverlab.cgrb.oregonstate.edu/ We are seeking a recent PhD graduate interested in studying evolutionary questions related to genetic conflict and cooperation. Current research in the lab combines high-throughput DNA sequencing technologies, surveys of natural variation, and experimental evolution. Nematodes are the main research systems in the lab (work funded by NIH and NSF grants); we also study anemones and Douglas fir trees. Our team also studies the intersections of Eastern philosophy (Madhyamaka Buddhism) and science.

Candidates of diverse backgrounds and interests will be considered. The main research project associated with this position is focused on genetic conflict and cooperation between Caenorhabditis nematodes (C. elegans, C. briggsae) and their mitochondria. The postdoc will be encouraged and supported in pursuing additional research objectives. There are also diverse opportunities for postdocs to develop teaching skills at Oregon State University.

The position is available immediately and the latest possible start date is Dec 1, 2014 (due to source of funds supporting the position).

Contact Dee directly by email if you are interested in the job or would like more information:

denver@cgrb.oregonstate.edu

Paris StructuralVariationDiscovery

The LabEx BASC (Biodiversity, Agroecosystems, Society, Climate), a network of 13 laboratories of the Paris-Saclay Scientific Cluster, is seeking a bioinformatician to analyze Next Generation Sequencing (NGS) data analysis. In the context of a flagship project aiming at understanding and improving the adaptive capacity of agroecosystems it will be critical to establish a link between sequence variation, functional variation, gene/protein expression and phenotypic adaptation. We will gather NGS data in many genotypes of various species, the genomes of which harbor a high level of structural complexity, with copy number variations, insertions-deletions, whole genome and segmental duplications. The successful candidate will be in charge of the detection of polymorphisms including structural variants, of the comparison of multiple and diverse genomes of a same species

and of the construction of pan- and core-genomes. These challenging tasks will require bioinformatics developments and implementation of methods for accommodating the high level of repetitiveness of complex genomes. The tools will be integrated into pipelines and made available to end-users through the Galaxy platform. The bioinformatician will therefore also have to provide researchers with advices on their experimental designs in order to ensure compliance of produced datasets with pipelines requirements. He/she will be hosted by a bioinformatics/informatics team (7 people) (http://moulon.inra.fr/index.php/-fr/equipestransversales/atelier-de-bioinformatique) which has computational facilities and expertise in NGS data analysis, and will benefit as well from national and international collaborative networks (Aplibio http://www.renabi.fr/platforms/aplibio/-, Transplant http://transplantdb.eu, AMAIZING http://www.amaizing.fr/).

The position requires a doctoral degree (PhD) in bioinformatics with strong expertise in script writing (Python/Perl) and pipeline development. Experience with NGS data handling will be greatly appreciated. The applicant will have to demonstrate excellent capacity to work in a team and ability to communicate with researchers.

Funding is available for two year and can be extended to three. Applicants should send a CV and the names of 2 referees willing to provide a letter of recommendation to joets@moulon.inra.fr.

joets@moulon.inra.fr

RoyalZooSoc Scotland PopGenetics

The Royal Zoological Society of Scotland. Population Geneticist, Fixed Term Contract - 12 Months

The role: As a Population Geneticist, you will report to the Head of Conservation Science, working within the Society's Wildgenes Laboratory, part of our Conservation Programmes department. You will be focusing on the transfer of population genomic research to SNP datasets, panel selection and assay. The successful candidate will be required to coordinate the delivery of activities contributing to research projects in the area of DNA traceability and authentication. They will be flexible in their approach and carry out a variety of other tasks as required. As a valued member of the Conservation Programmes department, the post-holder will contribute to the development of the Society in achieving its Mission and Aims.

About you: You will be educated to Masters-degree level, or hold equivalent relevant experience in biological, biochemical or environmental sciences. Previous experience of laboratory work is expected whilst excellent working knowledge of Microsoft Office is essential. The successful candidate should have sufficient knowledge-based skills to demonstrate a sound knowledge of population genetic theory and possess the sufficient skills to analyse genome-wide population genetic data sets and perform standard statistical analyses. A full UK valid driving license is desirable and the ability to work in the UK is essential. With an ability to communicate effectively across a wide range of internal staff and researchers, you will be able to pursue projects effectively with minimum supervision. This role would suit an effective communicator who demonstrates a quality approach to work.

This Fixed term contract is a full time position (37.5 hours per week, Monday- Friday) Closing date: 22 July 2013. Interviews will be held week commencing 29 July 2013 Salary: Â£20,000 - Â£22,000

To apply for the Population Geneticist role, please download the Job Profile and Application Form. CV's are welcomed and should be submitted along with the Application Form. Once completed you should email it to recruitment@rzss.org.uk

If you have project specific queries regarding the role, please email Rob Ogden at rogden@rzss.org.uk or alternatively, please contact Ross McEwing at rmcewing@rzss.org.uk for any general queries you may have.

Ross McEwing Ph.D Conservation Scientist Royal Zoological Society of Scotland 134 Corstorphine Road Edinburgh, Scotland EH12 6TS. Tel. +44 (0)131 314 0388 Skype: ross.mcewing

Inspiring and exciting our visitors for 100 years - Edinburgh Zoo is celebrating its 100th anniversary in 2013. Find out more about the centenary celebrations here: www.edinburghzoo.org.uk/centenary Book your tickets now to see the Giant Pandas. Go to www.edinburghzoo.org.uk for further details.

Join us on Facebook http://www.facebook.com/-EdinburghZooScotland Follow us on Twitter http:/-/twitter.com/edinburghzoo Catch up with the latest news on YouTube http://www.youtube.com/-TheEdinburghZoo Take out membership with us and enjoy unlimited access to both Edinburgh Zoo and The Highland Wildlife Park.

Ross McEwing <rmcewing@rzss.org.uk>

SaudiArabia CoralReefGenomics

Postdoctoral Position in Coral Reef Genomics

The laboratory of Christian R Voolstra (reefgenomics.kaust.edu.sa) is seeking a postdoctoral associate in the areas of functional and evolutionary genomics and bioinformatics analysis.

The successful candidate will collaborate as part of a funded framework on establishing gene knockdowns in the photosynthetic dinoflagellate Symbiodinium sp. A1 and subsequent transcriptome- and proteome-wide analysis in regard to functional validation and pathway interactions. Duties will require knowledge of the principles of molecular biology lab techniques (e.g. DNA/RNA extraction, PCR, cloning, sequencing, microscopy) and genome analysis (454 and Illumina data, genome/transcriptome assembly and annotation, confident command of Unix Shell, Perl, R, sequence databases). Applicants must exhibit curiosity and an interest in basic evolutionary questions. They should also be enthusiastic and able to work independently within a dynamic and collaborative working environment. Training on certain aspects will be provided but preference will be given to those with prior experience. Duties will include bench-based work (nucleic acid extraction, PCR, microscopy) as well as the creation of custom scripts to query and analyze large sequence databases and transcriptome datasets. The candidate will also interact with graduate students. The successful candidate is expected to produce first-authored papers as well as collaborate on others. The position is for two years but renewal each year is contingent on performance.The position package includes a competitive salary as well as benefits (housing, health insurance, etc.).

Position Location: Red Sea Research Center, KAUST, Saudi Arabia University Profile: KAUST is a dynamic new university campus and community in Saudi Arabia that opened in September 2009. The campus is located directly at the Red Sea, near Jeddah. More information is available at http://www.kaust.edu.sa and http://-/reefgenomics.kaust.edu.sa/Pages/Home.aspx Minimum Qualifications: Ph.D. degree with major course work in curriculum appropriate for the field of assignment - bioinformatics, genomics, molecular biology, etc. Preferred Qualifications: Experience with molecular biology lab protocols, transcriptome assembly and annotation, custom scripting in unix, perl, R.

Instructions for Applying: Screening will begin August 15, 2013 and will continue until the position is filled. The position is open from December 1, 2013. Please submit a letter of application indicating experience and research interests, curriculum vitae, and contact information for three references to:

Dr. Christian R Voolstra christian.voolstra@kaust.edu.sa PI Reef Genomics Red Sea Research Center KAUST

Christian R Voolstra <christian.voolstra@kaust.edu.sa>
Christian R Voolstra <christian.voolstra@kaust.edu.sa>

StanfordU PopGenetics

Postdoc in population genetics, Stanford University

Postdoctoral positions are available in Jonathan Pritchard's lab, which will be moving to Stanford University in August 2013.

Current work in the group uses computational and statistical methods to study a variety of problems in population genetics and molecular evolution. One focus is on the evolution of gene regulation, in collaboration with Yoav Gilad's lab. We are also interested in a variety of other problems including the genetics of complex traits; models of genetic architecture and genetic load; natural selection; and methods for studying population structure and demographic history. At Stanford we will be joining an outstanding community in population genetics, evolutionary biology and genomics. Much of our current work is in humans, but we are potentially interested in a broad range of organisms. Successful applicants will have considerable latitude and resources to design their own projects.

Applicants for the position must have a background in population genetics or come from a quantitative field (such as statistics or computer science) and have a demonstrated interest in genetics and evolution. Strong programming and bioinformatics skills are essential. Applicants must be highly motivated and able to work independently when needed.

Informal inquiries as well as applications (including a CV and description of research interests) should be emailed to Jonathan Pritchard (pritch@uchicago.edu). Applications will be considered as they are received;

positions will be available any time starting in August.

Jonathan Pritchard Howard Hughes Medical Institute Departments of Genetics and Biology Stanford University

pritch@uchicago.edu

UBath EvolutionaryQuantitativeGenetics

A three year postdoctoral position will soon be available at the University of Bath working with Jason Wolf, in collaboration with John Hunt (University of Exeter), Gabriel Marroig (University of Sao Paulo), and Jim Cheverud (Loyola University Chicago).

The project is focused on understanding how selection alters the relationship between traits, with a particular emphasis on the evolution of pleiotropy.

Work will focus on evolutionary changes to patterns of growth and development using an experimental population of mice. The postdoc will contribute to empirical, theoretical and computational components of the project. Empirical work will involve implementation of a complex multigenerational breeding scheme and large scale phenotyping (including longitudinal measurements of body composition and measurement of complex morphological traits). Computational work will involve genome scale analysis of associations using marker and sequence data. Theoretical work will involve the development of numerical and analytical quantitative genetic models.

A formal advertisement will appear at a later date - at this early stage we are looking for informal discussions from people interested in the project. The projected start date is January 1st 2014, but it may be possible to alter the start date by mutual agreement.

A two-year technician position on this project will also be advertised at a later date.

Please contact me for more information or to express interest.

Jason B Wolf Department of Biology & Biochemistry University of Bath Bath, BA2 7AY, UK

ph: +44 (0) 1225.385.012 Skype: jason.wolf

www.evolutionarygenetics.org jason@evolutionarygenetics.org

UCalifornia LosAngeles ConservationBiol

UCLA/La Kretz Center Postdoctoral Fellow

The UCLA La Kretz Center for California Conservation Science invites applications for its first annual Postdoctoral Fellowship in California Conservation Science. Consistent with our mission, we seek a postdoctoral scholar who simultaneously conducts innovative research and interfaces with the conservation and management agencies that direct and lead California conservation. Our emphasis is on biological conservation, and the successful candidate could work in any discipline that provides the scientific underpinnings for the preservation, protection, management, or restoration of at-risk species, environments, or ecological communities. We will consider candidates who have recently completed their PhD, or will have completed it by the start date for this position. We envision hiring one Fellow each year, building a team of conservation scientists with a passion for California and its biodiversity. The La Kretz Fellowship is for two years, subject to review after the first year. Our start date is as early as October 1, 2013. The successful applicant will be expected to conduct research that bridges the interests of at least one UCLA La Kretz faculty affiliate with priority science concerns of resource management agencies in the Santa Monica Mountains or Greater Los Angeles area (e.g. National Park Service, CA State Parks, Mountains Recreation and Conservation Agency); we strongly encourage applicants to contact their faculty mentor to develop a research plan. We also anticipate that the Fellow will also work with Brad Shaffer, Director of the La Kretz Center, to help develop collaborative research projects that further the mission of the Center. The position has an annual salary of approximately $40,000 plus full benefits, and the Fellow will have the option to reside at the newly renovated La Kretz Field Station, located in the Santa Monica Mountains about 25 miles from campus. Interested candidates should submit a cover letter, CV, short (1-2 page) description of research and management accomplishments, short (1-2 page) description of proposed research including potential faculty mentor(s), and copies of two publications, all as a single PDF format, to Mario Colon, administrative assistant, at mario.colon@ucla.edu You should also have three letters of recommendation, including one from your Ph.D.

advisor, sent under separate emails. The deadline for completed applications is 20 August, 2013. E-mail questions to Brad Shaffer (Director of the La Kretz Center) at brad.shaffer@ucla.edu. The University of California is an affirmative action/equal opportunity employer with a strong institutional commitment to the development of a climate that supports equality of opportunity and respect for differences.

Phillip Spinks <pqspinks@ucla.edu>

UCalifornia Riverside InsectSystematics

Postdoctoral Researcher V Systematics of Heteroptera

Heteropteran Systematics Lab @ UCR, University of California, Riverside

A postdoctoral position in systematics of Heteroptera, with emphasis on Reduviidae, is available in the Weirauch Lab (http://heteroptera.ucr.edu/), Department of Entomology, University of California, Riverside. The postdoc will engage in research on the phylogenetic systematics of selected assassin bug subfamilies and on phylogenomic studies across Reduviidae. Subfamily-level analyses will build on existing datasets and aim on constructing and analyzing comprehensive, multi-gene molecular phylogenies of the charismatic Emesinae, or thread-legged bugs, the Peiratinae, the corsairs, and the Harpactorinae. The selected candidate will be involved in ancestral state reconstruction of predation techniques (Emesinae, Harpactorinae) and genitalic asymmetry (Peiratinae), and investigate biogeographic patterns and divergence times. Phylogenomic efforts will focus on establishing workflows and generating a transcriptome dataset that will contribute to revealing relationships among the poorly resolved Higher Reduviidae (Hwang &Weirauch, 2012: http://www.plosone.org/article/-info%3Adoi%2F10.1371%2Fjournal.pone.0045523).

Candidates must have a PhD in insect systematics and a strong record of accomplishment in DNA sequencing, molecular phylogenetic analyses, ancestral state reconstruction, divergence dating, biogeographic analyses, and/or phylogenomic techniques. Background in systematics of Heteroptera or Hemiptera is preferred, but not required. Excellent communication, team-building and student mentoring skills are important for this position. The preferred starting date is September 15, 2013 or shortly thereafter. Initial appointment is for one year, but funds are available for up to three years pending appropriate progress. The position comes with standard University of California, Riverside benefits for postdoctoral researchers.

The application should include a cover letter describing relevant experience and fit to the position, a curriculum vitae, and contact information for three references. Please send applications to: Christiane Weirauch, Department of Entomology, University of California, Riverside, 900 University Avenue, Riverside, 92521 CA, USA; christiane.weirauch@ucr.edu. The initial application deadline is August 1, 2013, but application review will continue until the position is filled.

Christiane Weirauch Associate Professor of Entomology Department of Entomology University of California, Riverside Ph: 951-827-5707 Email: Christiane.weirauch@ucr.edu Web: http://heteroptera.ucr.edu/ Guanyang Zhang <gyz151@gmail.com>

UCollege London EvolutionaryInteractions

Postdoctoral position on "Characterizing Ecological Interactions Across Large-Scale Point Processes", led by Professor Sofia Olhede, at the University College London, UK

This project will study sets of ecological interactions across multiple species, developing novel statistical estimation methods for the interactions between the species, and will focus on applications in plant communities. The post is available from 1 September 2013 and is funded until 30 June 2015 in the first instance.

Key Requirements: Candidates should hold or be close to submitting a PhD (or equivalent qualification) in Statistics. It is essential that the successful candidate has previous experience of the use and development of sophisticated methods for random processes and time series and strong programming skills in Matlab or R.

More details can be found here: https://-atsv7.wcn.co.uk/search_engine/jobs.cgi?owner=-5041178&ownertype=fair&jcode=1347622 Informal enquiries regarding the vacancy may be addressed to Professor Sofia Olhede, email: s.olhede@ucl.ac.uk, tel: +44(0)20 7679 8321. For any queries regarding the application process please contact Dr Russell Evans,

email: russell.evans@ucl.ac.uk, tel: +44 (0)20 7679 8311

"Murrell, David" <d.murrell@ucl.ac.uk>

UCopenhagen AncientDNA

Postdoc position at the Centre for Ice and Climate and Centre for GeoGenetics, University of Copenhagen, Denmark within the topic Ancient DNA from ice cores

We are looking for a colleague on postdoctoral level to carry out research at the intersection of the fields of ancient DNA analysis and analysis of ice cores from Greenland and Antarctica. The position is strongly interdisciplinary and our new colleague will be working with internationally recognized researchers from both the Centre for GeoGenetics and the Centre for Ice and Climate, both Danish National Research Foundation Centres of Excellence located at the University of Copenhagen. The Centre for GeoGenetics (http://geogenetics.ku.dk/) conducts experimental research in genomics, evolution, megafauna and palaeoenvironments while the Centre for Ice and Climate (http://iceandclimate.nbi.ku.dk) conducts experimental and theoretical research on palaeoclimate based on measurements from deep ice cores from Greenland and Antarctica.

The job The position is offered on postdoctoral or assistant professor level on a 2 year time limited contract with possibility for extension. There are no fixed teaching obligations, but applicants may be asked to teach within their own field of research or supervise students on a very limited basis.

The candidate Applicants must have a PhD degree within a relevant research area, and applicants with a background in experimental DNA research will be preferred.

Terms Terms of appointment and payment will depend on previous research experience and will be according to the agreement between the Ministry of Finance and AC (The Danish Confederation of Professional). Typical monthly salary corresponds to approx. 33,000 Danish kroner plus full benefits. An attractive tax scheme is under certain conditions available for researchers that have not worked in Denmark within the last 10 years.

Application Procedure The application should contain a short description (no more than one page) of the applicant?s research interests and experience. Please enclose CV, publication list, and names and contact information on preferably three scientific referees. Applicants are required to submit their applications electronically (see http://www.iceandclimate.nbi.ku.dk/vacancies/). Applicants will not be informed of the identity of the other applicants. The application deadline is July 29th, 2013.

Questions Questions about the positions can be directed to leader of Centre for Ice and Climate, Professor Dorthe Dahl-Jensen (ddj@gfy.ku.dk), leader of Centre for GeoGenetics, Professor Eske Willerslev (ewillerslev@snm.ku.dk), or Centre for Ice and Climate coordinator Sune Olander Rasmussen (olander@gfy.ku.dk). The University of Copenhagen wishes to reflect the surrounding society and encourage all qualified applicants regardless of personal background to apply for the position.

Morten E. Allentoft Postdoc, PhD Centre for GeoGenetics* Natural History Museum Øster Voldgade 5-7 DK-1350 Copenhagen

+45 35 32 12 91 (office) +45 29 82 46 34 (mobile) http://geogenetics.ku.dk Sign up for our newsletter!< http://geogenetics.ku.dk/newsletters/?newsletter=3D728 >

Morten Allentoft <morten.allentoft@gmail.com>

UGreifswald Germany AnimalEvolution

University of Greifswald, Zoological Institute and Museum Postdoctoral Research Assistant in Animal Ecology Application deadline: 15.08.2013

The Department of Animal Ecology, Zoological Institute and Museum at the University of Greifswald invites applications for a

Postdoctoral Research Assistant.

Starting date: October 1st 2013. Duration: 3 years with the possibility of extension (for up to 6 years in total). Salary: German salary scale (TV-L 13, 100%). Teaching obligation (in German or English): 4 hours per week.

We are seeking a highly motivated and productive candidate who is interested in and capable of developing his/her own independent research profile. We will consider a wide spectrum of candidates working in the fields of animal ecology and / or animal evolution. Applicants working on the interface of ecology and evolu-

tion are particularly encouraged to apply. The successful candidate should ideally complement the techniques and approaches used in our group. Areas of interest to us include for example population genetics / molecular ecology, gene / protein expression, ecological genomics / transcriptomics, ecological immunology, and chemical ecology.

The successful candidate will hold a Ph.D. and will have a strong background in ecology and evolutionary biology. Prior postdoc experience and working with insects will be advantageous. English communication skills are essential.

The department of Animal Ecology works in the field of evolutionary ecology, focusing on life-history evolution, stress adaptation and reproductive biology. Research is mainly conducted at the ecological, behavioral, and quantitative genetic level. Current projects focus on temperature stress resistance, temperature-mediated plasticity, altitudinal life-history variation, reproductive resource allocation, sexual selection and sexual conflict, with tropical as well as temperate-zone butterflies serving as model organisms. For further information please visit http://www.mnf.uni-greifswald.de/institute/fr-biologie/institute-und-forschung/zool-institut-museum/tieroekologie.html.

The University of Greifswald is an equal opportunity employer.

Applications should include (1) a cover letter with a short statement of motivation, (2) CV, (3) list of publications, (4) list of externally acquired funds (if any), (5) a short statement of research accomplishments and future plans (max. 1 page), (6) contact details of two academic referees, and (7) degree certificates. Applications should be submitted electronically as a single PDF file to:

Prof. Dr. Klaus Fischer e-mail: klaus.fischer@uni-greifswald.de

For any enquiries please contact Klaus Fischer via e-mail.

Prof. Dr. Klaus Fischer Zoological Institute & Museum Greifswald University J.-S.-Bach-Str. 11/12 D-17489 Greifswald

Phone: +49-3834-864266 Fax: +49-3834-864252

"Dr. Klaus Fischer" <klaus.fischer@uni-greifswald.de>

UHawaii FungalEvolution

title:Postdoc in microbial/fungal ecology in Hawaii

A postdoc position is available in the Amend Lab at the Department of Botany at the University of Hawaii. The successful applicant will join a growing and dynamic group of researchers interested in microbial ecology and evolution within the unique Hawaiian archipelago.

The postdoctoral associate will be responsible for carrying out a study whose goal is to determine how the mycophagous diet of a Federally endangered tree snail,Achatinella mustelina, covaries among populations and host plant species. The snail is one of several species within Achatinella comprising a spectacular adaptive radiation endemic to the island of Oahu. Additional background information is available on the Tree Snail Conservation Lab website: http://www2.hawaii.edu/ ~ trsnlab/index.html Primary research objectives will be to analyze and synthesize for publication, a large Illumina amplicon dataset of fungi and bacteria from 150 host plant biofilm/snail feces pairs to infer diet dynamics from throughout the snail's natural and captive range. A secondary objective will be to isolate and identify fungal species from host trees to augment captive snail breeding programs.

The incumbent will work closely with fungal biologists, malocologist and with civilian US Army biologists who maintain snail conservation exclosures at field sites in the Waianae mountain range. Although both data and samples are in hand, the incumbent will have the opportunity to conduct additional fieldwork as needed.

The postdoctoral researcher will be responsible for participating in the training and oversight of graduate and undergraduate students, publish manuscripts in a timely manner in peer-reviewed academic journals and work to disseminate data to conservation managers.

Please see the full job announcement for additional information and application instructions:

http://workatuh.hawaii.edu/Jobs/NAdvert/17896/-2164686/1/postdate/desc Anthony Amend Assistant Professor of Botany www2.hawaii.edu/~amend

University of Hawaii Department of Botany, 101 St. John 3190 Maile Way Honolulu, HI 96822

amend@hawaii.edu

Anthony Amend <anthonyamend@gmail.com>

UJyvaskyla AdaptationGenetics

A post-doctoral position for 3 years in Evolutionary Genetics in the Department of Environmental and Biological Science (http://www.jyu.fi/bioenv/en), University of Jyvaskyla, Finland. The position is available from September 1, 2013 or as soon as possible thereafter.

The selected candidate will work in a project investigating the effects of alternative splicing in candidate genes in adaptation (focusing on diapause and cold tolerance) using latest genetic and genomic tools (amplicon sequencing, qPCR and RNAi) and northern Drosophila virilis group as a study species. The project will include two months visit for the selected candidate to Czech Republic (University of South Bohemia) and to UK (University of St Andrews) and is funded by the Academy of Finland. The successful candidate will also take part in supervising PhD and MSc students in relevant projects and can participate in teaching evolutionary genetics. The project is lead by Dr. Maaria Kankare (Docent in Evolutionary Genetics) whose group is working in close contact with Professor Anneli Hoikkala (University of Jyvaskyla; https://www.jyu.fi/bioenv/en/divisions/eko/-research/genetics-of-evolutionary-change) and several universal collaborators.

The candidate is required to have Ph.D. degree in molecular biology, genetics, bioinformatics or a related field, as well as good written and oral communication skills in English and a strong interest in evolutionary questions. Candidates should also have experience in genetics and/or genomics methods and/or bioinformatics.

More information about the project: https:/-/www.jyu.fi/bioenv/en/divisions/eko/research/-genetics-of-evolutionary-change/alternative-splicing-in-adaptation The official advertisement (including instructions how to apply and dead line) is available at www.jyu.fi/science/en/faculty/openpositions/-postdocbio Maaria Kankare, PhD Evolutionary Genetics Department of Environmental and Biological Science University of Jyvaskyla Finland email: maaria.kankare@jyu.fi

Kankare Maaria <s.maaria.kankare@jyu.fi>

UMinnesota PopulationGenomicsMetagenomics

Two postdoctoral positions are available at the University of Minnesota - Twin Cities with Ran Blekhman (http://blekhmanlab.org)

The Blekhman Lab's broad focus is on evolutionary, population, and medical genomics. The lab is based jointly in the Departments of Genetics, Cell Biology, and Development (http://gcd.umn.edu), and Ecology, Evolution, and Behavior (http://cbs.umn.edu/-eeb), with computational and wet lab space in the new state-of-the-art Cargill Building on the St. Paul campus.

The successful candidates will work on a major research project is the lab, focused on understanding the mechanism and evolution of host-microbiome interaction and its implications on human health. The Blekhman Lab will collect and analyze host genetic and metagenomic data from humans and other primates, and utilize computational and statistical techniques, to: 1. Understand the role of genetic and environmental factors in determining the composition of the microbiome; 2. Elucidate the combined role of host genetics and the microbiota in susceptibility to complex diseases; and 3. Understand how host-microbiome interactions evolved during human history, and their impact on patterns of genetic variation in modern human populations. The details of the specific project are flexible, and will depend on the expertise and interests of the successful candidate.

Founded in 1851, the University of Minnesota (http:/-/umn.edu) is one of the largest, most comprehensive universities in the United States, and ranks among the most prestigious research universities in the world. The University provides a highly collaborative environment with cutting edge research institutes and facilities, including the Microbial and Plant Genomic Institute (http://www.mpgi.umn.edu), the Biotechnology Institute (http://bti.umn.edu), and the University of Minnesota Genomics Center (http://www.bmgc.umn.edu). Additionally, we are working with the Minnesota Supercomputer Institute (http://msi.umn.edu), which provides excellent infrastructure and support for high-performance computation.

The Minneapolis-St. Paul metropolitan area is one of

the most desirable places to live in North America. The Twin Cities are consistently ranked at the top in quality of life, personal safety, green spaces and parks, arts and culture, public schools, personal health, and are among the best cities to raise a family in the United States. For more information on living in the Twin Cities, see http://umn.edu/wishyouwerehere/welcome .

The ideal candidate would be highly motivated to conduct independent research, and hold a PhD in genetics, bioinformatics, evolutionary biology, computer science, statistics, microbiology, anthropology, or a related field, with a solid publication record. Candidates should have a strong analytical background, have experience with analysis of next-generation sequence data, and proficiency with computer and statistical programing languages. The successful candidates will enjoy a highly competitive salary and benefits package.

Interested candidates are encouraged to contact Ran Blekhman by email (blekhman ˜ umn.edu), and provide a brief cover letter detailing research experience and interests, a CV, and contact information for three references. Informal enquires are welcome. Applications will be accepted starting immediately and until the positions are filled.

P.S - I will be at the SMBE meeting in Chicago next week, and would be happy to talk to anyone who has interest in joining the lab.

The University of Minnesota is an equal opportunity educator and employer.

Ran Blekhman, Ph.D. Assistant Professor Department of Genetics, Cell Biology, and Development Department of Ecology, Evolution, and Behavior University of Minnesota 222 Cargill Building 1500 Gortner Ave., St. Paul, MN 55108 http://BlekhmanLab.org blekhman@umn.edu

UMontpellier CancerEvolution

Postdoctoral research opportunity - Evolutionary models of cancer progression and therapies - University of Montpellier, France

We are looking for a motivated Postdoctoral researcher to employ mathematical and/or computer models to better understand the evolutionary dynamics of cancer progression and chemotherapeutic treatments. We are especially interested in applications of ecology, evolution, and population genetics towards general descriptions and ultimately predictive theories. Candidates having a firm background in quantitative modelling, but also having experience working with either cancer or bacterial cell cultures are particularly welcome.

The Postdoc is for two years, with a starting date on or before January 1, 2014. The contract is funded by INSERM Plan Cancer and is in collaboration with two cell biology research laboratories (Pr. Urszula Hibner and Pr. Daniel Fisher, IGMM).

Selection criteria: (1) PhD; (2) Considerable experience in mathematical or computer modeling in the context of cell biology, population ecology and/or evolutionary biology; (3) Command of written scientific English; (4) Demonstrated track record of refereed publications in leading journals; (5) Capacity to work under limited supervision.

Interested candidates should send (1) a letter of motivation, (2) a CV, and (3) the names, institutional addresses, and emails of 3 persons who can be contacted for references, on or before July 30, 2013 to Michael Hochberg (mhochber@univ-montp2.fr). Information about our interdisciplinary research group can be found at http://www.eec.univ-montp2.fr/people/mike-hochberg/ < http://www.darevcan.univ-montp2.fr/-?page_id=221 >

Michael Hochberg <mhochber@univ-montp2.fr>

UPenn Human PopGen CompBio

Post-Doctoral Position University of Pennsylvania - Perelman School of Medicine

The Voight lab invites applications for computational Post-Doctoral positions at the University of Pennsylvania School of Medicine, within the Departments of Pharmacology and Genetics. A central focus of the Voight lab is aimed toward developing computational approaches that translate discoveries from human genetics data into insights about the biological basis and genetic architecture of human disease and the history of human evolution.

Objectives: The candidate will have the opportunity to work with large collections of human genetic data sets, many of which are paired with a range of metabolic, cardiovascular, and autoimmune related traits. The applicant will focus their efforts on the analysis of these data, by contributing to gene-mapping activities, population genetics analyses, and developing new statistical

and population genetic methods to extract biological insights from these data.

Further, the applicant will also contribute to informatics and computational approaches that integrate biological information sources (e.g., CHIP-Seq, RNA-seq and gene-expression data, protein-protein networks, etc.) with genetic data. The applicant will also have the opportunity to engage in collaborative efforts at the national and international stage.

The position is immediately available with flexible starting dates (Fall 2013 and beyond). Applications will be accepted until the positions are filled. Competitive salaries commensurate with experience and skills, complete with benefits.

Qualifications: 1. The candidate will have a MD, PhD, or equivalent doctorate, a strong background in statistics, biostatistics, population genetics, human genetics, genetic epidemiology, computational biology and/or genomics, bioinformatics, or a related discipline. 2. The ideal candidate will have a track record of scientific productivity and leadership. 3. The ideal candidate will demonstrate a working proficiency in programming, scripting, and statistical computing (i.e., C/C++, Python, PERL, R, etc.), will have experience handling large data sets in the UNIX/LINUX operating environment, experience in high-performance cluster computing, and a working knowledge of computational tools routinely utilized in contemporary human genetics applications (e.g., PLINK, PLINK/SEQ, MACH, SNPTEST, BEAGLE, DAPPLE etc.). 4. Applicants with prior experience in projects and data related to next-generation sequencing, or with prior experience studying metabolic disorder, cardiovascular disease, and/or autoimmune disease will have a strong advantage.

Application Instructions: To apply, please send (1) cover letter that includes the names and contacts for three references and a short statement of research interests, and (2) a current CV to: Benjamin Voight, PhD (bvoight@upenn.edu).

Further information about the lab can be found at: http://coruscant.itmat.upenn.edu
Benjamin F. Voight, Ph.D. Assistant Professor, Departments of Pharmacology and Genetics The University of Pennsylvania - Perelman School of Medicine Tel: (215) 746-8083; Email: bvoight@upenn.edu http://coruscant.itmat.upenn.edu bvoight@broadinstitute.org

UPennsylvania ExperimentalGenomics

Postdoctoral fellowship in human experimental genomics University of Pennsylvania, Perelman School of Medicine

Postdoctoral positions are available in Christopher Brown's lab in the Genetics Department at the University of Pennsylvania. Current research in the Brown lab is focused on understanding the functional consequences of human non-coding sequence variation and understanding the mechanisms through which such variants affect complex phenotypes. We leverage both high-throughput experimental and computational techniques to address these questions. Successful applicants will have the opportunity to design their own projects relating to human functional genomics, gene expression regulation, eQTLs, or post-GWAS fine mapping and functional interpretation. The fellow will also have the opportunity to work as a part of the GTEx consortium and related projects.

Candidates with expertise in experimental or computational biology will be considered, but the ideal candidate will have significant experience in both.

Applicants must have an MD, PhD, or equivalent degree in genetics/genomics, evolutionary biology, bioinformatics, computational biology, or a related discipline. Candidates with backgrounds in statistics, computer science, physics, or other quantitative fields will be considered if they have experience with biological data. Experience with next-generation sequencing techniques and data, ChIP and related functional genomics techniques, and/or scientific programming are desired.

Applications (including CV, statement of research interests, and references) and informal inquiries should be emailed to Christopher Brown (chrbro@upenn.edu). Applications will be considered as they are received; positions are available as early as this summer.

Christopher Brown Assistant Professor Department of Genetics University of Pennsylvania chrbro@upenn.edu www.med.upenn.edu/brownlab chrbro@mail.med.upenn.edu

UPorto EvolutionaryGenomics

POSTDOCTORAL PROPOSALS

Selection of candidates for a grant proposal to submit to the Marie Curie individual fellowships

(European citizens: http://ec.europa.eu/research/-participants/portal/page/people;efp7_SESSION_ID=-pTL1Rv0HpGthgkmzTrGhKJFgp1b5Yc69vTQrjdMM23H8rj6mbZvd!1563113187?callIdentifier=FP7-PEOPLE-2013-IEF#wlp_call_FP7) (Non-European citizens: http://ec.europa.eu/research/-participants/portal/page/people?callIdentifier=FP7-PEOPLE-2013-IIF#wlp_call_FP7)

I am accepting applicants for a Postdoctoral grant proposal to be submitted to the the Marie Curie individual fellowships under the topics of Evolutionary Genomics, Bioinformatics and Biodiversity. Candidates from Europe and non-European countries interested in Marine and Environmental Genomics are welcome. The research will be developed primarily at the CIIMAR-University of Porto, Portugal (http://www.ciimar.up.pt) but may consider biological questions at a worldwide biological scale, thus non-European applicants are also very welcome.

The candidates should have a PhD (or more than 4 years of experience) in Molecular Evolution, Genomics, Population Genetics, Bioinformatics or other related fields of research.

The candidates should include: - Cover letter describing their interests, skills, prior scientific experience - Detailed curriculum vitae with list of publications in indexed scientific journals; - Scanned copy of the PhD degree and qualification marks.

The applications should be submitted till 29 July 2013 by email to Dr Agostinho Antunes (aantunes@ciimar.up.pt or aantunes777@gmail.com)

Reference papers from our group can be seen:

http://www.ncbi.nlm.nih.gov/pubmed/?term=-Agostinho+Antunes Dr. Agostinho Antunes Geneticist CIIMAR, University of Porto Rua dos Bragas, 177; 4050-123 Porto, Portugal; Tel: (351) 22 3401 813 Fax: (351) 22 3390 608

Agostinho Antunes <aantunes777@gmail.com>

URochester EvolutionaryGeneticsGenomics

Two postdoctoral positions are available in Daven Presgraves's lab in the Department of Biology at the University of Rochester.

Current research in the lab combines genetic, molecular, and genomics approaches in Drosophila to investigate speciation, meiotic drive, and the evolution of recombination rates. Successful applicants will have considerable resources and intellectual freedom to pursue projects in any of these areas. The ideal candidates will have experience in bioinformatics, molecular biology, and/or evolutionary genetics. The EEB group in the University of Rochester's Department of Biology provides a stimulating intellectual environment, with particular strength in evolutionary genetics (https://-blogs.rochester.edu/EEB/).

Applicants should email a brief cover letter describing research interests, a CV, and the names and contact information for 2-3 references to daven.presgraves@rochester.edu. Review of applications will begin immediately and continue until the positions are filled. Informal inquiries regarding the positions are welcome.

For more information, visit the Presgraves Lab website (http://blogs.rochester.edu/PresgravesLab/) or contact by email.

The University of Rochester is an Equal Opportunity Employer.

Daven Presgraves Department of Biology University of Rochester

dvnp@mail.rochester.edu http://www.rochester.edu/-College/BIO/labs/Presgraves/index.htm daven.presgraves@rochester.edu

USGS LandscapeGenetics

U.S. Geological Survey Mendenhall Postdoctoral Research Fellowship

We are currently accepting applications for USGS

Mendenhall Postdoctoral Program Opportunity 14-22: *Integrating habitat modeling and landscape genetics to understand impacts of climate change and energy development on species persistence and diversity in the desert southwest*. The USGS Mendenhall Program provides an opportunity for recent PhD graduates (within five years since completion of the doctoral degree) to conduct concentrated research in association with selected members of the USGS professional staff.

The overarching goal of our research program is to assess climate and land use impacts to intraspecific genetic diversity and biodiversity, and to develop science-based tools to inform decision-making in the desert southwest. We encourage applicants with strong skills in landscape genetics, landscape ecology, geospatial statistics, or species distribution modeling to develop proposals to apply innovative approaches to address potential impacts of climate and land use change on habitat suitability and genetic structure across species ranges in the desert Southwest. Applicants may propose research centered on a number of themes including: 1) spatially explicit modeling of population processes to predict changes to patterns of presence and genetic diversity in target species under different land use and climate scenarios; 2) developing novel methods to model species distributions under climate change and assess the significance of changes, and 3) empirical hypothesis testing to understand environmental correlates and other landscape factors associated with high neutral and/or adaptive variation within select species. Significant data have been amassed to support these research themes including species occurrence data, and genetic data for several herpetofauna, small mammals and invertebrate species throughout the study region, derivatives of downscaled global climate models (e.g. climate water deficit and others), and over 70 environmental data layers rasterized at the relevant spatial scales. Other resources include laboratory facilities and next generation sequencing capabilities, GIS and computing resources.

Mendenhall Fellowships are 2-year appointments with competitive salary and benefits. Fellows are typically granted project expense funds appropriate to the scope of research to be conducted.

Opportunities will be open for application through September 20, 2013. Applicants are strongly encouraged to contact the research advisors before developing a research proposal. More information about the Mendenhall Program and this opportunity can be found at http://geology.usgs.gov/postdoc/- and http://geology.usgs.gov/postdoc/opps/2014/14-22%20Vandergast.htm Research Advisors: Amy Vandergast, (619) 225-6445, avandergast@usgs.gov; Kenneth Nussear, (702) 564-4515, knussear@usgs.gov; Todd Esque (702) 564-4506, tesque@usgs.gov

Proposed Duty Stations: San Diego, CA; Las Vegas, NV

"Vandergast, Amy" <avandergast@usgs.gov>

USGS Mendenhall Genomics

USGS Mendenhall Postdoctoral Research Fellowship in Genomics

*Title of Research Opportunity: *Climate change, land-use change, and species of conservation concern: application of novel genomic tools to understand species vulnerability and biological responses

Description of Research Opportunity:

Knowledge about habitat needs and connectivity among groups or populations of threatened or endangered species and how they will respond to changing environments is essential to assess their long-term viability. Extraordinary new advances in genomic techniques now allow for increased understanding about movements, landscape ecology, genetic structure of populations, and responses to environmental changes related to population declines, yet such techniques have only recently begun to be used to aid the conservation and management of threatened and endangered species. Comprehensive datasets exist for three related, yet distinctive species of considerable conservation concern, Greater Sage-grouse (*Centrocercus urophasianus*), Gunnison Sage-grouse (*C. minimus*), and White-tailed Ptarmigan (*Lagopus leucura*). The challenges facing each of these species are unique, yet similarities in life history and habitat needs provide the opportunity to explore multi-species analyses.

We seek a postdoctoral fellow to apply cutting edge genomic techniques to management questions for landscape-level ecological systems that are facing drastic changes due to increasing anthropogenic developments, changing climate, or both. Genomic techniques facilitate the examination of hundreds of thousands of regions of DNA in thousands of individuals spanning vast geographic areas, providing a better understanding of the evolutionary forces at play within a species and across a landscape. This methodology offers a novel approach to disentangle the influences of gene flow and genetic drift from natural selection, which will help managers better define distinct populations and better pre-

dict how climate change and anthropogenic stressors (e.g., habitat loss and fragmentation due to energy development) will influence populations subjected to various selection agents. Additionally, such methods may allow for the identification of key traits (e.g., those associated with shifts in phenology or drought tolerance) so that management may focus specifically on maintaining adaptive genetic potential, in light of current anthropogenic stressors (Stapley et al. 2010).

Genomic techniques are extremely powerful, yet have not been applied generally in non-model species, although this obstacle is quickly being overcome (Bi et al. 2012, Grover et al. 2012). As such, the focus of research under this Opportunity can be flexible, allowing for either a single species or multiple species approach to developing, applying, and evaluating these methods. Next generation sequencing and genomic marker development (single nucleotide polymorphisms, or SNPs) are in progress for all three species and other genomic methods could be investigated and developed as well (e.g., transcriptomics). An extensive set of DNA samples for all species are available for use, ranging from intense sampling within populations, to broader sampling from across populations or the range of a species. Additionally, exceptional demographic and landscape data exist for all systems. This provides us with a unique opportunity to capture and interpret results in a manner that will allow a depth of understanding into a system never before attainable. Likewise, the pioneering efforts of this research will serve as a model for further studies into this field.

This Mendenhall project is highly relevant and the Fellow will contribute directly to the assessment of the impacts of climate and land-use (here in the form of energy and/or urban development) change. Both species of Sage-grouse are at risk from significant energy development and other anthropogenic stresses, as well as more long-term impacts from a changing climate. White-tailed ptarmigan are a species that suffers much less from land-use change but has already shown significant negative impacts due to climate change. Applying the cutting edge genomic methods to analysis of any of these species alone, or in concert, will provide vital clues into the impacts of climate and land-use change on wildlife species. The Mendenhall Fellow's research will be a component of larger research projects that are examining the response of three grouse species to increased anthropogenic development and/or changes in climate through changes in behavior, demography, and/or adaptation using unique datasets that have been compiled for each species. The Fellow's research is expected to be incorporated into biological response models for the species involved, which will help provide information specific to managing these important species in ecosystems particularly vulnerable to development and

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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

USheffield SharkEvoDevo

Post-doctoral Research Associate available in evolutionary developmental biology of shark and ray dentitions, Department of Animal and Plant Sciences, University of Sheffield, UK.

This is an ideal opportunity for an ambitious Post-doctoral Research Associate to work in the Laboratory of Gareth Fraser at the interface of evolutionary and developmental biology. This project aims to explore novel morphological and genetic methods to understand the evolution and development of tooth patterning and functional mechanisms responsible for tooth regeneration in a comparative framework in sharks and rays. The work will be performed in a large, high profile 5* research department with a strong commitment to research-led teaching.

The position is funded by the Natural Environment Research Council (NERC) in collaboration with the Natural History Museum (Dr. Zerina Johanson), King's Collage London (Prof. Moya Smith) and Birkbeck, University of London (Dr. Charlie Underwood) to study the evolution of chondrichthyan dentitions. The overall aim of the project is to use an integrative evo-devo approach to the study the dentition in a major group of jawed vertebrates, the chondrichthyans.

Potential candidates will have a PhD or equivalent experience in evolutionary or developmental biology, preferably in vertebrates, and a track record of publishing in leading specialist or multidisciplinary journals. A strong interest and/or background in evolutionary biology, palaeobiology, developmental biology or regenerative biology would be desirable.

The post is fixed-term for 2 years with the potential for extension.

To apply please follow the current vacancies page at: http://www.sheffield.ac.uk/jobs For informal enquiries about this position and the Department of Animal and

Plant Sciences at the University of Sheffield, please contact Dr. Gareth Fraser at: g.fraser@sheffield.ac.uk or 0114 222 4317.

Gareth J. Fraser, Ph.D Lecturer in Zoology Department of Animal and Plant Sciences Alfred Denny Building University of Sheffield Western Bank Sheffield S10 2TN UK Phone: +44(0)1142224317 Email: g.fraser@sheffield.ac.uk Website: Fraser Lab< https://-sites.google.com/a/sheffield.ac.uk/fraser-lab/home-1 >

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

UZurich Bioinformatics

URPP Evolution in Action

Job Advertisement Embedded Bioinformatician

Postdoctoral Fellow om Evolutionary Bioinformatics

A postdoctoral fellowship in evolutionary bioinformatics is available in the laboratory of Andreas Wagner at the University of Zurich. The lab is collaborating with multiple research groups as part of a university-funded research program in evolutionary biology. The candidate will be able to choose among several collaborative projects on the evolutionary genomics of animals, plants, and microbes, whose common thread is the analysis of high-throughput genome sequence or functional genomic data (See also http://www.evolution.uzh.ch/-research/researchprojects.html). The fellow would be jointly affiliated with the Wagner lab and with one or more of the research group(s) whose data he or she would help analyze.

We are looking for an individual who has received his or her PhD within the last five years, who is highly self-motivated and independent, yet willing to support the computational research of his collaborators in a team-effort. Fluency in a major scripting language such as perl, and experience in software development is a must. The successful candidate will have experience with computational analyses of high-throughput data in genomics or population genomics. Applications without a demonstrated interest and research history in evolutionary biology will not be considered further. The position offers a highly competitive salary of up to three years on annually renewable contracts.

The working language in the laboratory is English. German skills, although helpful, are not essential. Zurich is a highly attractive city in beautiful surroundings, with a multinational population, and many educational and recreational opportunities.

To be considered, please send a single (!) PDF file merged from the following parts to annette.schmid@ieu.uzh.ch: CV including publication list, a statement of research interests not exceeding three pages, and three academic references. Please include the word EVOBIO2013 in the subject line. The application deadline is Sep 6, 2013. The position is available in January of 2014.

Annette Schmid Administrative Assistant of Prof. A. Wagner University of Zurich Institute of Evolutionary Biology and Environmental Studies Wagner lab, Y27-J52 Winterthurerstrasse 190 CH-8057 Z[1]rich Switzerland Mail to: annette.schmid@ieu.uzh.ch Phone +41 (0)44 635 61 42 Fax +41 (0)44 635 61 44 at the office on Tuesday and Friday

annette.schmid@ieu.uzh.ch

UZurich UGrenoble EcoEvoModelingClimateChange

ZURICH-GRENOBLE POSTDOCTORAL POSITION IN ECO-EVOLUTIONARY MODELING

A post-doctoral position is available at the Institute of Evolutionary Biology and Environmental Studies (IEBES), University of Zurich, Switzerland to work in collaboration with Frederic Guillaume (IEBES) and Wilfried Thuiller (Laboratoire d'ECologie Alpine (LECA), Uni Grenoble, France) on a eco-evolutionary modeling project funded by Swiss SNF and ERC grants. We seek a candidate with strong interests in evolutionary biology and community ecology, and a solid background in the modeling of ecological and/or evolutionary dynamics.

The aim of the project is to model the eco-evolutionary dynamics of species' range evolution caused by environmental changes and to predict shifts in species distributions at continental scales under climate change taking account of both adaptive and ecological processes. The project will blend existing modeling approaches in quantitative genetics, metapopulation dynamics, and metacommunity ecology and be applied to datasets on large-scale species distributions for a large number of species.

The candidates will have a PhD in a relevant area, be highly self-motivated, and able to work indepen-

dently. We expect the candidates to have a strong theoretical background in one of evolutionary quantitative genetics, metapopulation genetics/dynamics, or (meta)community ecology, and be able to show expertise in deploying complex computational approaches and in the statistical analysis of high-dimensional datasets. Programming skills are highly recommended with at least one scripting language (R, Matlab, Mathematica, Python, etc.) Knowledge of C/C++ will be preferred.

The position is for 18 months with possibility of extension. Possible starting dates are between November 2013 and January 2014. The candidate will be hosted at IEBES in Zurich with possibilities for frequent stays at LECA, Grenoble. The candidate should be able to travel between Zurich and Grenoble (or midway, expenses covered) for report meetings. Flexibility and willingness to accommodate with different geographical locations will be guarantied from all parties.

LECA (www-leca.ujf-grenoble.fr) is part of the University Joseph Fournier in Grenoble, France. Grenoble is set close to some of the most beautiful mountains of the Alps with excellent connections to Lyon and Geneva. IEBES (www.ieu.uzh.ch) is at the University of Zurich, Switzerland. Zurich is renown for its quality of living and has a multinational population with many educational and recreational opportunities. LECA and IEBES host a large and vibrant community of excellent scientists to interact with. Working language is english at both locations.

Deadline for application: September 6, 2013, (position open until filled)

Application package in a *single* PDF file should include (1) CV with list if publications in peer-reviewed journals, (2) cover letter explaining research interests and fit to the position requirements (max three pages), and (3) three academic references. Applications should be sent to Frederic Guillaume (frederic.guillaume@env.ethz.ch).

For informal inquires, please contact us:

Frederic Guillaume frederic.guillaume@env.ethz.ch +41 (0)44 632 52 78

Wilfried Thuiller wilfried.thuiller@ujf-grenoble.fr +33 (0)4 76 51 44 97

frederic.guillaume@env.ethz.ch

WashingtonStateU TasmanianDevil PopGenetics

POSTDOCTORAL RESEARCHER

Washington State University

School of Biological Sciences

We are seeking a postdoctoral researcher to work on population and landscape genomics of Tasmanian devils and Tasmanian devil facial tumor disease. This NSF -funded international collaboration builds on over 15 years of research tracking the spread of this unique infectious tumor across Tasmania and consequent endangerment of the iconic Tasmanian devil. Reference genomes are available for both tumor and devil. The successful applicant will have an unprecedented opportunity to analyze thousands of devil genotypes and hundreds of tumor samples taken both before and after epizootics to test for selection throughout both genomes, coevolution, patterns of resistance, etc, across Tasmania. We will then use these data to predict the course of disease in uninfected populations. The position is centered in the lab of Dr. Andrew Storfer (www.wsu.edu/~storfer) at Washington State University, in close collaboration with Dr. Paul Hohenlohe at the nearby University of Idaho (8 miles away). Both universities have genomics core facilities, including the Institute of Bioinformatics and Evolutionary Studies (IBEST;http://www.uidaho.edu/research/ibest) with state-of-of-the art equipment, computational facilities and staff support.

Review of applications will begin on August 15, 2013 and continue until the position is filled. A Ph.D. in Biology or a related discipline is required, and we particularly welcome applicants with experience in population genomics, infectious disease evolution, bioinformatics, and/or cancer genomics. Start date is negotiable. Salary and benefits are competitive. Position is for 1-4 years, pending satisfactory progress. To apply, please send in pdf format a CV, and names, addresses and email addresses of 3 references, a research statement and up to 3 representative reprints via email to: Andrew Storfer (astorfer@wsu.edu). *WSU is an Equal Opportunity/Affirmative Action/ADA educator and employer.*

Andrew Storfer, PhD Eastlick Distinguished Professor Associate Director for Graduate Studies School of Bio-

logical Sciences Washington State University Pullman, WA 99164 USA Phone: (509) 335-7922 Fax: (509) 335-3184 astorfer@wsu.edu www.wsu.edu/~storfer

andrew.storfer@gmail.com

WashingtonU YeastEvolutionaryGenetics

Postdoc in yeast evolutionary genetics, Washington University in St. Louis

A postdoctoral position is open in Justin Fay's lab in the genetics department (www.genetics.wustl.edu) at Washington University in St. Louis. The laboratory is located in the Center for Genome Sciences and Systems Biology (http://genomesciences.wustl.edu/) on the Medical School campus.

Current projects in the lab aim to understand the ecology and evolution of Saccharomyces species, and particularly strains of S. cerevisiae domesticated for the production of wine. With the establishment of yeast as an evolutionary model system, we aim to apply genetic and genomic technologies to understand how changes in gene regulation are relevant to phenotypic variation and fitness. Applicants are encourage to contact Justin Fay to discuss those projects relevant to the their interests and background.

Applications should include both a CV and a description of research interests and postdoctoral goals and should be sent to Justin Fay (jfay@wustl.edu). Further inquiries regarding the position are also welcome.

Justin Fay Associate Professor Department of Genetics Center for Genome Sciences & Systems Biology Washington University St. Louis, MO, USA

fayjustin@gmail.com

WorkshopsCourses

Barcelona IntroductionGenomicDataAnalysis Jan20-24

Dear colleagues:

Registration is open for the course: "Introduction to Genomic data analysis using HapMap and 1000 genomes projects - Second edition"; January 20-24, 2014.

Instructors: Dr. Marc Via (Universitat de Barcelona, Spain) and Robert Carreras-Torres (Universitat de Barcelona, Spain).

Place: Premises of Sabadell of the Institut Català de Paleontologia Miquel Crusafont, Sabadell, Barcelona (Spain).

Organized by: Transmitting Science and the Institut Catalá de Paleontologia Miquel Crusafont.

The course is entitled to teach the main concepts of genomic data analysis using real data from the two most

important international projects: The HapMap and the 1000 Genomes Projects. In this course you will get familiar with the data arising from these two projects and learn how to use it alone or in combination with other datasets to answer genetic, demographic and evolutionary questions. The course will alternate theory with practical computer exercises but it will focus on hands-on training. Although examples will be based on single-nucleotide polymorphism (SNP) data in human individuals, most topics covered in this course can be extended to other types of markers and organisms. Basic use of the R statistical package and command-line based environments will be introduced in the course and previous knowledge is not required.

More information: http://-www.transmittingscience.org/courses/gen/hapmap/ This course will be held in the Sabadell facilities of the Institut Català de Paleontologia (Barcelona, Spain) and is co-organized by Transmitting Science and the Institut 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. Course Director

soledad.esteban@transmittingscience.org

Barcelona ModellingDynamics Feb4-7

Dear Colleagues,

Registration is open for the course "MODELLING DINAMICS IN BIOLOGY. FROM HISTORY TO PRACTICAL EXAMPLES", February 4-7, 2014. 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, 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, evolutionary biologists). 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

With best regards

Soledad De Esteban Trivigno, PhD.

soledad.esteban@transmittingscience.org

Barcelona QuantGenetics Feb3-6

Dear Colleagues,

Registration is open for the following course:

"Quantitative Genetics of shape - Second edition"; February 3-6, 2014. Instructors: Dr. Neus Martínez Abadías (Centre for Genomic Regulation, Spain) and Dr. Nicolas Navarro (École Pratique des Hautes Études, France).

Place: Els Hostalets de Pierola, Barcelona, Spain.

Organized by: Transmitting Science and the Council of Els Hostalets de Pierola.

More information: http://-www.transmittingscience.org/courses/gen/quant-gen-shape/ or writing to courses@transmittingscience.org

Participants in any editions of the previous course Integration and Modularity with Geometric Morphometrics < http://www.transmittingscience.org/courses/-gm/modularity-and-gm/ > are entitled to a 20 % discount on the course fee.

The aim of this course is to provide participants with an overview of quantitative genetics, with specific ap-

plication to shape analysis and decomposition of phenotypic variation into components of genetic and environmental variation. The basic theoretical concepts of resemblance between relatives, heritability, estimates of selection, and geometric morphometrics will be introduced. Practical lessons will enable participants to learn to use user-friendly (and not so user-friendly) software packages to estimate heritability, phenotypic and genetic variance covariance matrices, response to hypothetical selection, actual selection and QTL mapping. Participants are encouraged to bring their own data for analysis and discussion in the course. Morphometric data involves any kind of quantitative shape data collected on individuals, such as linear measurements and/or 2D or 3D landmark coordinates. Pedigree files usually consist of text files with a list of three columns (individual ID, father ID, mother ID). Specific details about formatting these files will be provided during the practical lessons.

With best regards

Soledad De Esteban Trivigno Course Director

soledad.esteban@transmittingscience.org

BuenosAires GeometricMorphometrics Mar10-14

BuenosAires.EvolutionAndGeometricMorphometrics.Mar10-14 Reply-To: soledad.esteban@transmittingscience.org

Dear Colleagues:

Registration is open for the course "Studying Evolution with Geometric Morphometrics"

Instructor: Dr. Chris Klingenberg (University of Manchester, UK).

Date: March 10-14, 2014, 50 hours.

Place: Premises of the CONICET in La Plata , Buenos Aires (Argentina).

Language: English.

Organized by: Transmitting Science and IGEVET (CONICET).

PhD students of any Argentinian University are entitled to a 20 % discount on the course fee.

Morphometric approaches are used increasingly to study a wide range of questions concerning the evolution of organismal shape and its developmental and genetic basis. The standard techniques of the 'morphometric synthesis' of the mid-1990s have been supplemented by a set of new methods that address specific biological questions in specific contexts such as morphological integration, modularity, phylogenetic comparative analyses, and studies of symmetry and asymmetry. This course will introduce these recent approaches to an audience of researchers who are familiar with the fundamentals of geometric morphometrics. Lectures will present the theoretical basis of the methods, and software demonstrations and practical exercises will provide participants with the opportunity to try out the methods themselves. Practical work, as far as possible with the participants' own data or with data provided as examples, and discussions of the participants' research questions are intended to help them to apply the new methods to their own projects.

More information: http://-www.transmittingscience.org/courses/gm/evolution-and-gm/ or writing to courses@transmittingscience.org

With best regards

Soledad De Esteban Trivigno, PhD. Course Director Transmitting Science < http://-www.transmittingscience.org/ >

soledad.esteban@transmittingscience.org

BuenosAiresU Evolution Nov11-20

Dear EvolDir members,

The III Latin American School of Evolution (III LASE) will take place from November 11 to 20 in the Faculty of Exact and Natural Sciences of Buenos Aires University, Argentina. The local academic committee has decided to organize the third version of LASE as both a School and workshop, focusing in Genomics, encompassing evolutionary, comparative, functional and structural and applied aspects. This present edition of the School is mainly directed to postgraduate students and will consist in the presentation of theoretical and practical approaches to evolutionary and applied genomic analyses. Classes will be dictated by national and international experts. Invited speakers are:

Trudy Mackay, North Carolina State University, Raleigh, NC, EE.UU. Robert Anholt, North Carolina State University, Raleigh, NC, EE.UU. Enrique Lessa, Universidad de la República, Montevideo, Uruguay. Arcadi Navarro, Institució Catalana de Recerca i Es-

tudis Avançats - Universitat Pompeu Fabra, Barcelona, España. David Posada. University of Vigo Spain. John Novembre, University of California, Los Angeles, CA, EE.UU. Hernán Dopazo, Universidad de Buenos Aires y Human Genomics Institute, Buenos Aires, Argentina. Mario Poli, Instituto Nacional de Tecnología Agropecuaria (INTA), Buenos Aires, Argentina. Luciano Matzkin, The University of Alabama Huntsville, Huntsville, AL, EE.UU. Fernando Carrari, Instituto Nacional de Tecnología Agropecuaria (INTA), Buenos Aires, Argentina. Martín Vazquez, Gerente de Investigación del Instituto de Agrobiotecnologia Rosario, Rosario, Santa Fe, Argentina.

Registration is open until July 31th

Email: 3elaevo@gmail.com

Language: Spanish & English

More information: http://-3escuelalatinadevo.blogspot.com.ar/ .

See you soon in Buenos Aires

Academic Committee, III Latin American School of Evolution (III LASE)

Ignacio Soto <ignaciomsoto@yahoo.com.ar>

ColdSpringHarbor ComputGenomics Nov6-12

Course announcement - Application deadline, July 15, 2013

Cold Spring Harbor COMPUTATIONAL & COMPARATIVE GENOMICS

Nov 6 - 12, 2013 Application Deadline: July 15, 2013

INSTRUCTORS:

William Pearson, University of Virginia, Charlottesville, VA Lisa Stubbs, University of Illinois, Urbana, IL This course presents a comprehensive overview of the theory and practice of computational methods for the identification and characterization of functional elements from DNA sequence data. The course focuses on approaches for extracting the maximum amount of information from protein and DNA sequence similarity through sequence database searches, statistical analysis, and multiple sequence alignment. Additional topics include:

Alignment and analysis of "Next-Gen" sequencing data The Galaxy environment for high-throughput analysis Identification of conserved signals in aligned and unaligned sequences Regulatory element and motif recognition Integration of genetic and sequence information in biological databases The ENSEMBL genome browser and BioMart Function/phenotype prediction for sequence variants The course combines lectures with hands-on exercises; students are encouraged to pose challenging sequence analysis problems using their own data. The course is designed for biologists seeking advanced training in biological sequence and genome analysis, computational biology core resource directors and staff, and for scientists in other disciplines, such as computer science, who wish to survey current research problems in biological sequence analysis. Advanced programming skills are not required.

The lecture/lab schedule for the 2012 course can be found at fasta.bioch.virginia.edu/cshl

Speakers in the 2012 course included: Aaron Mackey, U. of Virginia, Next-Gen analysis pipelines Francis Ouellette, Ontario Institute for Cancer Research, Databases for Biological Function William Pearson, U. of Virginia, Similarity Searching, Multiple Alignment Lisa Stubbs, U. of Illinois, Urbana, ChIP, Transcription Factors, and Comparative Genomics James Taylor, Emory, Galaxy and genome analysis pipelines The primary focus of the computational and comparative genomics course is the theory and practice of algorithms used in computational biology, with the goal of using current methods more effectively and evaluating new approaches. Students who wish to learn Perl programming for Bioinformatics are encouraged to apply to the Programming for Biology course. Students who would like in-depth training in the analysis of next-generation sequencing data (e.g., SNP calling and the detection of structural variants) should apply to the course on Advanced Sequencing Technologies & Applications. This Computational and Comparative Genomics course will discuss methods for phenotype prediction from variation data.

To apply to the course, follow the instructions at:

http://meetings.cshl.edu/course/-courseapp_instr.shtml wrp@virginia.edu

Crete ComputationalMolEvol May5-14

Dear Community,

The 6th summer school on computational molecular evolution that I am organizing with Ziheng Yang, Nick Goldman and Aidan Budd will take place from May 5 - 14 2014 in Crete, Greece again.

Please visit the course web-site for further details, applications are now open.

http://events.embo.org/14-computational-evolution/-index.html Alexis

Alexandros (Alexis) Stamatakis

Research Group Leader, Heidelberg Institute for Theoretical Studies Full Professor, Dept. of Informatics, Karlsruhe Institute of Technology Adjunct Professor, Dept. of Ecology and Evolutionary Biology, University of Arizona at Tucson

www.exelixis-lab.org alexandros.stamatakis@gmail.com

NESCent Ontologies QuantitativeGenetics

There are still spaces available in two upcoming courses at the National Evolutionary Synthesis Center (NESCent) in Durhan, NC.

I. Evolutionary Quantitative Genetics (primary instructors Stevan Arnold and Joe Felsenstein), August 5-10 https://academy.nescent.org/wiki/-Evolutionary_quantitative_genetics II. Ontologies for Evolutionary Biology (primary instructors: Melissa Haendel and Matt Yoder), July 29-August 3 https://academy.nescent.org/-wiki/Ontologies_for_evolutionary_biology
karen.cranston@gmail.com @kcranstn

karen.cranston@gmail.com

UAuckland BEAST Jul4

NEFREX workshop on BEAST suite of Phylogenetic software.

Due to some late cancellations, there are a limited number of places available for the BEAST workshop tomorrow at the Museum (see below), conducted by Remco Bourkaert from the University of Auckland. The program is designed for both the novice and experienced user of the software alike.

Please contact Phillip Endicott to register. endicott@mnhn.fr

You will need to be registered to attend.

Dear colleagues

As part of the academic exchange scheme involving the University of Auckland and the Musée de l'Homme funded by the EU FP7 program under the IRSES scheme

there will be a one day workshop on the BEAST 2 software package.

It will be given by Remco Bouckaert from the Dept of Computer Science, University of Auckland,

on Thursday July 4th

in the Museum National d'Histoire Naturelle (Paris, France)

The day will consist of a seminar in the morning, followed by an afternoon of hands-on use of the software using example files

based on the Divergence Dating and STAR BEAST tutorial. Both available from http://-beast2.cs.auckland.ac.nz/ The seminar will act as an introduction to several new models available in BEAST2; these include:

* the birth-death-skyline model, which allows estimation of parameters for epidemics,

* SNAPP, a multi-species coalescent model for SNP data that allows estimation of species trees,

* substBMA, a substitution model for nucleotide data that estimates per site rate and model parameters, which tends to have a much better fit to the data than other models.

Frederic Austerlitz <austerlitz@mnhn.fr>

Instructions

Instructions: To be added to the EvolDir mailing list please send an email message to Golding@McMaster.CA. At this time provide a binary six letter code that determines which messages will be mailed to you. These are listed in the same order as presented here — Conferences; Graduate Student Positions; Jobs; Other; Post-doctoral positions; WorkshopsCourses. For example to receive the listings that concern conferences and post-doctoral positions this would be 100010. Messages are categorized on the basis of their subject headings. If this subject heading is not successfully parsed, the message will be sent to me at Golding@McMaster.CA. In addition, if it originates from 'blackballed' addresses it will be sent to me at Golding@McMaster.CA. These messages will only be read and dealt with when I have time. The code 000000 has all channels turned off and hence gets only a once monthly 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.