

---

# E v o l D i r

October 1, 2012

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](mailto: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.



Foreword .....	1
Conferences .....	2
GradStudentPositions .....	12
Jobs .....	34
Other .....	74
PostDocs .....	81
WorkshopsCourses .....	113
Instructions .....	117
Afterword .....	117

---

## Conferences

Clemson SEPEEG 2012 Oct12-14 .....	2	Miami Biogeography Jan9-13 DueDates .....	7
Clemson SEPEEG 2012 Oct12-14 2 .....	2	NewOrleans MEEGID XI Oct30Nov2 .....	8
DalhousieU Endocytobiology Aug19-22 .....	3	Oeiras Portugal Evolution Dec21 .....	9
Dubendorf Switzerland EvolutionaryEcol Nov22-23 .	3	Paris Systematics Oct8-10 LastCall .....	9
KansasCity Genomics Oct26-28 TravelSupport .....	4	Sevilla Adaptation Nov15-16 .....	9
KansasCity Genomics Oct26-28 deadline .....	5	StonyBrookU ExptEvol HonorOfDykhuzen Nov3 ..	10
Marseilles 17thEBM Sep17-20 .....	6	UCollegeDublin ComputationalBiology Dec5-7 .....	10
MaxPlanckInst GOEvol Oct2 .....	6	UMichigan EvolutionMedicine Sep14 .....	11
Miami Biogeography Jan9-12 StudentTravelGrants .	7		

---

### Clemson SEPEEG 2012 Oct12-14

Dear Colleagues,

Consider yourselves (and your students, postdocs, colleagues...) warmly invited to attend SEPEEG 2012!

This year, the 37th Annual SouthEast Population, Ecology and Evolutionary Genetics (SEPEEG) meeting will take place at the Clemson Outdoor Laboratory October 12-14th.

A few highlights of SEPEEG 2012... –Keynote speaker Saturday evening: Prof. Dr. David Heckel, Director of the Dept of Entomology at the Max Planck Institute for Chemical Ecology –10 in-service high school biology teachers from upstate South Carolina, sponsored by the American Society of Naturalists (ASN) and the South Carolina LIFE program (SCLife), will join us for dinner and 'An Evening of Science' on Saturday –Discounts for undergraduate and graduate students selected via competition (see website) are available through generous support from ASN

For more information and to register, please see the Google Site below and/or locate 'SEPEEG' on Facebook. The SEPEEG group also has a GoogleGroup, just search for 'SEPEEG' within 'Google Groups' and request to be added.

Google Site: <https://sites.google.com/site/sepeeg2012/> Note that, at this time, it is not

possible to separate room and board for registration because of the discount setup at the CU Outdoor Labs (headcount for meals, ongoing beverage service/snacks, etc.). If you come, you will have a blast... bonfires both nights, nice beverages to share, and good company. It is an excellent opportunity to network, support educational and research efforts, and hear great science!

Cheers, Amy

Amy Lawton-Rauh, Ph.D. Associate Professor Department Genetics and Biochemistry 210 Biosystems Research Complex 105 Collings Street Clemson University Clemson, SC 29634-0318

Tel. 864-656-1507 (office) Fax. 864-656-6879 (department) Email. [amyjr@clemson.edu](mailto:amyjr@clemson.edu) Skype. amy.lawton.rauh

Lab website: [www.clemson.edu/lawtonrauhlab](http://www.clemson.edu/lawtonrauhlab) Department website: <http://www.clemson.edu/genbiochem/> Amy Lawton-Rauh <AMYLR@clemson.edu>

---

### Clemson SEPEEG 2012 Oct12-14 2

UPDATE! ASN student discount deadline extended for the 37th Annual SEPEEG meeting (Clemson Outdoor Laboratory, October 12-14 2012)

September 20th: last call! for ASN student discount

entries Deadline extended for ASN student discount entries... open to undergrads and grad students. The deadline is extended to Thursday September 20th. Very likely ALL entries will receive the student discount of \$25 (if we have more than 25 students, then we have to go into a decision mode ;-)

September 27th: Registration (submit form, submit payment) Deadline for registration (submitting the registration form) is next Thursday September 27th. Payment for registration is due September 27th via PayPal online.

For more information: <https://sites.google.com/site/sepeeg2012/> Also, to request to be added onto the SEPEEG email list: Search 'Google Groups' for 'SEPEEG' (or email me directly)

Hope to see you in Clemson in a few weeks!

Cheers, Amy

Amy Lawton-Rauh, Ph.D. Associate Professor Department Genetics and Biochemistry 210 Biosystems Research Complex 105 Collings Street Clemson University Clemson, SC 29634-0318

Tel. 864-656-1507 (office) Fax. 864-656-6879 (department) Email. amyrl@clemson.edu Skype. amy.lawton.rauh

Lab website: [www.clemson.edu/lawtonrauhlab](http://www.clemson.edu/lawtonrauhlab) Department website: <http://www.clemson.edu/genbiochem/> AMYLR@clemson.edu

---

## DalhousieU Endocytobiology Aug19-22

12th International Colloquium on Endocytobiology and Symbiosis

August 19th - 22nd, 2013 Dalhousie University, Halifax, Nova Scotia, CANADA

Dear Colleagues,

We are happy to announce that the 12th International Colloquium on Endocytobiology and Symbiosis of the International Society of Endocytobiology (ISE) will be held August 19th to 22nd 2013 at Dalhousie University in Halifax, Nova Scotia, Canada. The colloquium is being organized by John Archibald (jarchib[at]dal.ca) and will cover the latest research on all aspects of endosymbiosis and the biology of endosymbiotically-derived organelles. We would be very happy to see you

in Halifax for an exciting meeting. More information will follow in the coming weeks but for now please put a mark in your calendar.

Best regards,

Ralf Oelmüller, ISE President

John Archibald <jmarchib@dal.ca>

---

## Dubendorf Switzerland EvolutionaryEcol Nov22-23

Dear Colleagues

We would like to remind you of our two-day symposium on Evolutionary Applications. There are still some open slots. Registration remains open until 30 September 2012.

EVOLUTIONARY ECOLOGY AND THE MANAGEMENT OF AQUATIC ECOSYSTEMS

22 - 23 November 2012 at the Swiss Federal Institute of Aquatic Science and Technology (Eawag) in Dubendorf, Switzerland

Evolutionary and ecological processes occur over similar timescales and affect the emergence, maintenance, and change of biological diversity. The potential for rapid evolutionary processes can also affect a broad range of applied issues, such as the effects of invasive species, the conservation of threatened species, the management of aquatic pathogens or ecosystem services. We will discuss how approaches from evolutionary ecology can contribute to solving environmental problems in aquatic ecosystems. This is a science-stakeholder interaction symposium that aims to foster collaboration between researchers and practitioners. It comprises talks by invited speakers, contributed talks, podium discussions and a poster session.

Themes and invited speakers

Responses of natural populations to environmental stress Prof. Frédéric Silvestre, University of Namur, Belgium

Role of intraspecific diversity in species conservation Prof. Craig Primmer, University of Turku, Finland

Pathogen evolution and wildlife diseases Prof. Joanne Webster, Imperial College London, UK

Evolutionary ecology of species invasions Prof. Andy Sih, Univ. of California, USA

Fisheries induced evolution Prof. Mikko Heino, Univ. of Bergen, Norway

Evolution, ecosystems and policy Dr. Luis Santamaria, Mediterranean Institute for Advanced Studies, Spain

Please find all relevant informations under [www.eawag.ch/applie devo2012](http://www.eawag.ch/applie devo2012) .

The event is limited to 80 participants. Registration remains open until 30 September 2012. For enquiries please contact us via [appliedevo@eawag.ch](mailto:appliedevo@eawag.ch).

We hope to see you there.

Katja Räsänen, Christoph Vorburger, Blake Matthews & Jukka Jokela

[appliedevo@eawag.ch](mailto:appliedevo@eawag.ch)

## KansasCity Genomics Oct26-28 TravelSupport

10th Annual Ecological Genomics Symposium October 26 to 28, 2012 Kansas City Country Club Plaza Symposium website: <http://ecogen.ksu.edu/symp2012>

This year marks the 10th ANNIVERSARY of the Ecological Genomics Symposium. We have put together an outstanding and extended lineup of fourteen speakers that will cover the latest research results, a retrospective on progress in Ecological Genomics over the last 10 years, as well as challenges and opportunities for the future. A Symposium details can be found at [www.ecogen.ksu.edu/symp2012](http://www.ecogen.ksu.edu/symp2012) . The meeting will convene at 7:00 p.m. on Friday, October 26, and conclude at Noon on Sunday, October 28.

**TRAVEL FELLOWSHIPS:** Funds are available to support student and postdoc travel awards to attend the Ecological Genomics Symposium. The fellowships are supported by the U.S. National Science Foundation (IOS-1244871) with the goal of increasing the cultural and scientific diversity of the young scientists at the symposium. Complete applications are to be submitted as a single pdf document to [dmerrill@k-state.edu](mailto:dmerrill@k-state.edu) by Monday, September 17, 2012. For information and instructions to apply, please visit: <http://ecogen.ksu.edu/symp2012/travel.fellowship.html> .

**REGISTRATION:** Please register online today at: [www.ecogen.ksu.edu/symp2012](http://www.ecogen.ksu.edu/symp2012) . You may also register to attend the optional Saturday night banquet for an additional fee of \$50.

**POSTER ABSTRACTS:** Poster topics should be related to the field of Ecological Genomics. A LIMITED NUMBER OF SUBMITTED POSTER ABSTRACTS WILL BE SELECTED FOR ORAL PRESENTATIONS. Instructions for submitting your abstract online are at: <http://ecogen.ksu.edu/symp2012/-abstract.html> . DEADLINE: September 28, 2012.

**VENUE:** The symposium will take place at the Kansas City Marriott on the beautiful Country Club Plaza in Kansas City, Missouri. Reserve your hotel room online by visiting the Symposium website. Deadline: September 28, 2012.

**FEATURED SPEAKERS:** +Jenn A. Brisson, University of Nebraska **AAA** The genetic basis of wing polymorphism in pea aphids +Bill Cresko, University of Oregon **AAA** Exploring evolution genome-wide in the threespine stickleback +Scott V. Edwards, Harvard University **AAA** Genomic, geographic and temporal tracking of a rapidly evolving host-pathogen system +Martin E. Feder, University of Chicago and +Jack C. Schultz, University of Missouri **AAA** 10 years of Ecological Genomics: Where have we gone and where are we going? +Loretta Johnson, Kansas State University **AAA** Phenotypic and genetic variation of a keystone grass across the Great Plains' precipitation gradient +Jan Kammenga, Wageningen University **AAA** Ecological and evolutionary genomics of *C. elegans* +Thomas Mitchell-Olds, Duke University **AAA** A novel gain of function polymorphism controlling complex traits and fitness in nature +Jeanne M. Serb, Iowa State University **AAA** Molecular ecology and adaptation of visual photopigments in scallops +Emilie Snell-Rood, University of Minnesota **AAA** The transcriptomics of nutritional plasticity in horned beetles +John (Jack) Werren, University of Rochester **AAA** Using *Nasonia* (and its microbes) to investigate the genomics of adaptation and speciation +Chris Wheat, Stockholm University **AAA** Ecological Genomics: Emerging general insights from butterflies +Thomas G. Whitham, Northern Arizona University **AAA** The role of community genetics in providing solutions to climate change, conserving biodiversity, and habitat destruction: Genetic- based ecosystem restoration +Patricia J. Wittkopp, University of Michigan **AAA** Genomic sources of regulatory mutation: Mutation, polymorphism, and divergence

**DEADLINES:** Monday, 9/17 Travel Award Applications Friday, 9/28 Early Registration at discounted rates Friday, 9/28 Poster Abstracts for oral presentation consideration and poster sessions Friday, 9/28 Hotel Reservations

**ADDITIONAL INFORMATION** will be posted on our

website, [www.ecogen.ksu.edu/symp2012](http://www.ecogen.ksu.edu/symp2012), as details are finalized.

FUNDING for this symposium is provided by The National Science Foundation and Kansas State University.

Ecological Genomics Institute Directors: Dr. Loretta Johnson, [johnson@ksu.edu](mailto:johnson@ksu.edu) Dr. Michael Herman, [mherman@ksu.edu](mailto:mherman@ksu.edu) Kansas State University, Division of Biology 116 Ackert Hall, Manhattan, KS 66506-4901 [www.ecogen.ksu.edu](http://www.ecogen.ksu.edu) by Doris Merrill, Program Coordinator [dmerrill@k-state.edu](mailto:dmerrill@k-state.edu)

---

## KansasCity Genomics Oct26-28 deadline

10th Annual Ecological Genomics Symposium

October 26 to 28, 2012

Kansas City Country Club Plaza

Symposium website: <http://ecogen.ksu.edu/symp2012>

DEADLINES:

Friday, 9/28 Early Registration at discounted rates

Friday, 9/28 Poster Abstracts for oral presentation consideration and poster sessions

Friday, 9/28 Hotel Reservations at the Marriott on the beautiful Country Club Plaza

PROGRAM:

This year marks the 10th ANNIVERSARY of the Ecological Genomics Symposium. We have put together an outstanding and extended lineup of fourteen speakers that will cover the latest research results, a retrospective on progress in Ecological Genomics over the last 10 years, as well as challenges and opportunities for the future. Symposium details can be found at [ecogen.ksu.edu/symp2012](http://ecogen.ksu.edu/symp2012). The meeting will convene at 7:00 p.m. on Friday, October 26, and conclude at Noon on Sunday, October 28.

REGISTRATION:

Please register online today at: [www.ecogen.ksu.edu/symp2012](http://www.ecogen.ksu.edu/symp2012). You may also register to attend the optional Saturday night banquet at the Brio Tuscan Grille for an additional fee of \$50.

POSTER ABSTRACTS:

Poster topics should be related to the field of Ecological Genomics. A LIMITED NUMBER OF SUB-

MITTED POSTER ABSTRACTS WILL BE SELECTED FOR ORAL PRESENTATIONS. Instructions for submitting your abstract online are at: <http://ecogen.ksu.edu/symp2012/abstract.html>. DEADLINE: Friday, September 28, 2012.

VENUE: The symposium will take place at the Kansas City Marriott on the beautiful Country Club Plaza in Kansas City, Missouri. Reserve your hotel room online by visiting the Symposium website. Deadline: September 28, 2012.

FEATURED SPEAKERS: +Jenn A. Brisson, University of Nebraska

The genetic basis of wing polymorphism in pea aphids  
+Bill Cresko, University of Oregon

Exploring evolution genome-wide in the threespine stickleback

+Scott V. Edwards, Harvard University

Genomic, geographic and temporal tracking of a rapidly evolving host-pathogen system

+Martin E. Feder, University of Chicago and

+Jack C. Schultz, University of Missouri

10 years of Ecological Genomics: Where have we gone and where are we going?

+Loretta Johnson, Kansas State University

Phenotypic and genetic variation of a keystone grass across the Great Plains' precipitation gradient

+Jan Kammenga, Wageningen University

Ecological and evolutionary genomics of *C. elegans*

+Thomas Mitchell-Olds, Duke University

A novel gain of function polymorphism controlling complex traits and fitness in nature

+Jeanne M. Serb, Iowa State University

Molecular ecology and adaptation of visual photopigments in scallops

+Emilie Snell-Rood, University of Minnesota

The transcriptomics of nutritional plasticity in horned beetles

+John (Jack) Werren, University of Rochester

Using *Nasonia* (and its microbes) to investigate the genomics of adaptation and speciation

+Chris Wheat, Stockholm University

Ecological Genomics: Emerging general insights from butterflies

+Thomas G. Whitham, Northern Arizona University

The role of community genetics in providing solutions to climate change, conserving biodiversity, and habitat destruction: Genetic- based ecosystem restoration

+Patricia J. Wittkopp, University of Michigan

Genomic sources of regulatory mutation: Mutation, polymorphism, and divergence

TRAVEL FELLOWSHIPS :

Funds are available to support student and postdoc travel awards to attend the Ecological Genomics Symposium. The fellowships are supported by the U.S. National Science Foundation (IOS-1244871) with the goal of increasing the cultural and scientific diversity of the young scientists at the symposium. The deadline for submitting applications was September 17.

ADDITIONAL INFORMATION will be posted on our website, [www.ecogen.ksu.edu/symp2012](http://www.ecogen.ksu.edu/symp2012), as details are finalized.

FUNDING for this symposium is provided by The National Science Foundation and Kansas State University.

Ecological Genomics Institute Directors:

Dr. Loretta Johnson, [johnson@ksu.edu](mailto:johnson@ksu.edu)

Dr. Michael Herman, [mherman@ksu.edu](mailto:mherman@ksu.edu)

Kansas State University, Division of Biology

116 Ackert Hall, Manhattan, KS 66506-4901

[www.ecogen.ksu.edu](http://www.ecogen.ksu.edu)

by

Doris Merrill, Program Coordinator

[dmerrill@k-state.edu](mailto:dmerrill@k-state.edu)

---

## Marseilles 17thEBM Sep17-20

The 17th EBM will take place from September 17th to September 20 th 2012

<http://sites.univ-provence.fr/evol-cgr/> best regards  
Pierre

[Pierre.Pontarotti@univ-provence.fr](mailto:Pierre.Pontarotti@univ-provence.fr)

---

## MaxPlanckInst GOEvol Oct2

After the success of the 2011 Göttingen mini symposium on evolutionary biology, the GOEvol organization team is pleased to announce that the date of the next mini symposium/workshop has been set to Tuesday, October 2nd 2012 at the Max-Planck-Institute for Dynamics and Self-Organization (MPIDS, Bunsenstrasse 10, Lecture Hall in House 8). In continuation with the spirit of the GOEvol network, this meeting aims to foster interactions within the diverse and dynamic Göttingen community of evolutionary biologists. The intention of this meeting is to create an interaction platform for scientists working on evolutionary biology in Göttingen. The meeting is open to everyone wanting to present and discuss his/her ideas. Of course visitors and scientists from other universities are also warmly welcome to participate.

The last meeting allowed us to get a first overview of the projects going on in Göttingen. In order to cover the broad spectrum of scientific topics investigated, this year we want to change the structure. In the morning we will have five talks by invited speakers, which might be of interest to a greater audience. During the (extended) lunch break we will have a poster session. Here, we especially encourage master and PhD students to present their projects. In the afternoon the focus will be set on Next Generation Sequencing (NGS). After an introduction, the resources available in Göttingen will be presented, followed by short talks on ongoing projects dealing with NGS.

More details can be found on our webpage, <http://goevol.uni-goettingen.de>. If you plan to attend the symposium, please register at <http://goevol.uni-goettingen.de/contact-form-2/index.php>. Best regards,  
Jens Bast, Gisela Fickenscher, Jean-François Flot, Lukas Geyrhofer, Alexandre Jousset and Nico Posnien

– Nico Posnien Georg-August-University Göttingen  
Johann-Friedrich-Blumenbach Institute for Zoology and Anthropology Department of Developmental Biology Ernst-Caspari-Hause (GZMB) Justus-von-Liebig-Weg 11 37077 Göttingen Germany

Phone: +49 (0) 55139 8268 E-mail: [nposnie@gwdg.de](mailto:nposnie@gwdg.de)  
web: <https://sites.google.com/site/niposcience/>

[nico.posnien@gmail.com](mailto:nico.posnien@gmail.com)

---

## Miami Biogeography Jan9-12 StudentTravelGrants

Dear Biogeographers

The International Biogeography Society and the Paleontological Society are awarding travel grants for students and post-docs (i.e. received the PhD less than two years ago) to attend the 2013 IBS biennial meeting, 9-13 January 2013 in Miami, Florida. Grants will be awarded to individuals giving oral and poster presentations at the meeting; all applicants must be current members of the International Biogeography Society.

The standardized application form for all awards can be downloaded from the conference web site. Applications and supporting materials are due by September 30th, 2012. Awards include registration, attendance at a workshop, and up to \$500 of travel costs.

If you or anyone you know of could benefit from these awards, please refer them to <http://www.biogeography.org/html/Meetings/2013/-travelawards.html> for details and contact [ibstravelawards@gmail.com](mailto:ibstravelawards@gmail.com) with any questions.

If you are a student yourself, please note that all applicants must be current members of the International Biogeography Society. If you are not a current member and are otherwise eligible for the awards, you can renew prior to applying.

See you in Miami!

– Ana M. C. Santos (Guida Santos), PhD

Postdoctoral Researcher Centro de Biologia Ambiental, Faculdade de Ciências da Universidade de Lisboa, Lisbon (Portugal) & Dpt. Biogeography & Global Change, Museo Nacional de Ciencias Naturales (CSIC), Madrid (Spain) Associate Resercher - Azorean Biodiversity Groups, CITA-A, Universidade dos Açores, Angra do Heroísmo (Portugal)

<http://cita.angra.uac.pt/biodiversidade/-equipa/ver.php?id> Researcher ID: <http://www.researcherid.com/rid/E-7598-2010> The International Biogeography Society <http://www.biogeography.org/> Iranian Journal of Entomology <http://www.ijent.ir/>  
[ana.margarida.c.santos@googlemail.com](mailto:ana.margarida.c.santos@googlemail.com)

---

## Miami Biogeography Jan9-13 DueDates

Dear Colleagues: A reminder of important due dates - Registration for student travel awards for the upcoming International Biogeography Society meeting are due by September 30th, 2012. <http://www.biogeography.org/html/Meetings/2013/travelawards.html> Early registration for the meeting ends October 18th. [http://www.biogeography.org/html/Meetings/2013/-registration\\_info.html](http://www.biogeography.org/html/Meetings/2013/-registration_info.html) =6th Biennial Conference of the International Biogeography Society North Miami, Florida, USA - January 9-13th

The meeting is built around four successive SYMPOsia (10th & 11th January) each with a suite of leading international scientists and \*openings for contributed papers\*:

1. Island Biogeography: new syntheses (Organizers: Rob Whittaker & Kostas Triantis).
2. Beyond Bergmann: new perspectives on the biogeography of traits (Organizers: Adam C. Algar and Nathan G. Swenson).
3. The convergence of conservation paleontology and biogeography (Organizers: Jenny McGuire & Edward Davis).
4. Predicting species and biodiversity in a warmer world: are we doing a good job? (Organizers: Antoine Guisan & Niklaus E. Zimmermann).

The meeting also has 12 sessions of CONTRIBUTED PAPERS (12th January) on key topics: i. Island biogeography ii. Neotropical biogeography iii. Climate-change biogeography iv. Conservation biogeography v. Pre-quaternary paleoecology and biogeography vi. Quaternary paleoecology vii. Phylogeography viii. Marine biogeography ix. Natural disturbance biogeography x. Global-scale biogeography xi. Hot topics in biogeography

Dr. Jim Brown will give a keynote lecture after receiving the Alfred Russel Wallace Award, recognizing his lifetime of outstanding contributions to biogeography. & Dr. Miguel Araújo will give a keynote lecture after receiving the Macarthur & Wilson Award, a new award recognizing an early-research individual for a notable, innovative contribution to biogeography.

In addition, before the meeting, on the 9th of January, five WORKSHOPS will be held: Biodiversity Informatics Training, Biogeography of Stress, Communicating Biogeography, Popular Science Writing, & an Introduc-

tion to Bayesian Statistical Analysis.

On the 9th & 13th of January, arranged FIELD EXCURSIONS will visit a number of Florida's beautiful biogeographic locations.

Check out the IBS meeting website for more details and to register (<http://www.biogeography.org/html/Meetings/2013/index.html>)

=Michael N Dawson [mdawson@ucmerced.edu](mailto:mdawson@ucmerced.edu)

[dawson.mn@gmail.com](mailto:dawson.mn@gmail.com)

---

## NewOrleans MEEGID XI Oct30Nov2

### MEEGID XI

The 11th International Conference on Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases (MEEGID)

October 30 to November 2, 2012, New Orleans

Registration is now open for the 11th edition of the highly successful international conference series on the Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases. <http://www.meegidconference.com/index.html> MEEGID is a wide-ranging conference that deals with the molecular evolution of all pathogens: viruses, pathogenic bacteria, fungi, parasites and prions.

Together, the MEEGID congress series and its companion journal, < [http://www.elsevier.com/wps/find/journaldescription.cws\\_home/621317/-description#description](http://www.elsevier.com/wps/find/journaldescription.cws_home/621317/-description#description) >Infection, Genetics and Evolution, represent the main forum for cross-fertilization between evolutionary science and biomedical research on infectious diseases.

REGISTER HERE: <https://conferences.elsevier.com/index.cfm> Main Topics Include:

Evolutionary genetics, genomics, proteomics Genetics, population biology and morphometrics of vectors Host genetic susceptibility to infectious diseases Mathematical modeling & bio-informatics Molecular diagnostics Molecular epidemiology Population biology Coevolution

#### Speakers

< <http://www.meegidconference.com/bio-ayala.html> >Francisco Ayala, UC Irvine, USA Talk title: Whence

Plasmodium falciparum? A new understanding of its evolutionary origin

< <http://www.meegidconference.com/bio-carlton.html> >Jane M. Carlton, New York University, USA Talk title: Parasite Genomics: The next generation

< <http://www.meegidconference.com/bio-crandall.html> >Keith Crandall, George Washington University, USA Talk Title: Bioinformatic approaches to study pathogen evolution

< <http://www.meegidconference.com/bio-criscione.html> >Charles D. Criscione, Texas A&M University, USA Talk title: Testing the null hypothesis of local scale panmixia: Providing insights into the cryptic ecology, evolution and epidemiology of metazoan animal parasites

< <http://www.meegidconference.com/bio-foley.html> >Brian Foley, Los Alamos National Laboratory, USA Talk title: Molecular epidemiology: Comparing and contrasting the evolution and epidemiology of HIV-1 to HTLV, HCV, HBV and other viruses

< <http://www.meegidconference.com/bio-gagneux.html> >Sebastien Gagneux, Swiss Tropical & Public Health Institute, Basel, Switzerland Talk title: Host-pathogen co-evolution in human tuberculosis

< <http://www.meegidconference.com/bio-hanage.html> >William P. Hanage, Harvard School of Public Health, USA Talk title: Whole genome epidemiology: Case studies and potential for the future

< <http://www.meegidconference.com/bio-kreiswirth.html> >Barry N. Kreiswirth, University of Medicine and Dentistry of New Jersey, USA Talk title: A molecular epidemiologist's view of Mycobacterium tuberculosis evolution and pathogenesis

< <http://www.meegidconference.com/bio-shaw.html> >Marie-Anne Shaw, University of Leeds, UK Talk title: 'All animals are equal but some animals are more equal than others' - exploring the genetics of susceptibility to infectious disease.

< <http://www.meegidconference.com/bio-simard.html> >Frederic Simard, IRD, Montpellier, France Talk title: Population genetics, evolution and epidemiological role of main mosquito vector species

< <http://www.meegidconference.com/bio-soll.html> >David R. Soll, The University of Iowa, USA Talk title: The evolution of new signal transduction pathways involved in fungal pathogenesis

< <http://www.meegidconference.com/bio-tibayrenc.html> >Michel Tibayrenc, IRD, Montpellier, France Talk title: Population genetics of microbial



pathogens

< <http://www.meegidconference.com/bio-walk.html>  
>Seth Walk, University of Michigan Health System,  
Ann Arbor, Michigan Talk title: Meet the neighbors:  
Discovery of cryptic Escherichia clades changes our  
understanding of E. coli evolution

— / —

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

---

## Oeiras Portugal Evolution Dec21

Dear colleagues of the evolution community,

We are happy to announce that the VIII Portuguese Evolutionary Biology Meeting (ENBE) will be held on the 21st of December, 2012, at the Instituto Gulbenkian de Ciência in Oeiras, Portugal.

We also expect this meeting to be a landmark for the study of evolution in Portugal, since we will have the first elections for the Portuguese association for evolutionary biology. For more information regarding the APBE and its' mission, please visit [www.biologia-evolutiva.net](http://www.biologia-evolutiva.net) (in portuguese).

Details about the meeting and the website for registration will follow soon.

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

Mark your calendars!

The ENBE organizing committee

Caros colegas evolucionistas,

É com grande prazer que anunciamos que o VIII Encontro Nacional de Biologia Evolutiva vai realizar-se no Instituto Gulbenkian de Ciência em Oeiras, no dia 21 de Dezembro de 2012. Esperamos que este encontro venha a ser um ponto de referência para o estudo da evolução em Portugal, uma vez que teremos as primeiras eleições da Associação portuguesa para a Biologia Evolutiva.

Para mais informações acerca da APBE, visite o site [www.biologia-evolutiva.net](http://www.biologia-evolutiva.net) . Em breve enviaremos mais detalhes sobre o meeting e o website para o registo.

Por favor reencaminhem este e-mail para possíveis interessados.

Marquem nos vossos calendários!

O comité de organização do ENBE

[lilia.perfeito@gmail.com](mailto:lilia.perfeito@gmail.com)

---

## Paris Systematics Oct8-10 LastCall

Last call for participating to the French Society of Systematics Annual meeting on \*8-10th October, 2012\*, in Paris, France!. Submit your abstract online for talks and poster sessions to the Secretary of the SFS <[jdubuis@snv.jussieu.fr](mailto:jdubuis@snv.jussieu.fr)> before the \*15 of September\*.

This year, our annual meeting will address the issue of: \*Systematics beyond phylogenetics

Registration form is available at this address <[http://sfs.snv.jussieu.fr/resources/Journees\\_automne/-SFS%20annual%20meeting%202012,%20circular-7.doc](http://sfs.snv.jussieu.fr/resources/Journees_automne/-SFS%20annual%20meeting%202012,%20circular-7.doc)> .

\*Société Française de Systématique\* Courriel : [sfs.systematique@gmail.com](mailto:sfs.systematique@gmail.com) Site web : <http://sfs.snv.jussieu.fr> [sfs.systematique@gmail.com](mailto:sfs.systematique@gmail.com)

---

## Sevilla Adaptation Nov15-16

CALL FOR PARTICIPATION

GLOBAL CHANGE IN THE MEDITERRANEAN.  
LEARNNG FROM EXPERIENCE WORLDWIDE.

15-16 November 2012 Sevilla, Spain <http://www.ebd.csic.es/website1/congreso/Index.aspx>

SESSION 1. Plasticity, epigenetics and global change.  
SESSION 2. Physiological response to climate change.  
SESSION 3. Stable isotopes as indicators of global change.  
SESSION 4. Modeling the effects of global change, beyond genes.

GOAL This meeting seeks to provide a general view to common problems in the Mediterranean, gathering leading experts in different fields that will collectively provide a cutting-edge, multifaceted view of the manifold ecological and evolutionary implications of global change. Investigating phenotypic responses of individuals using a multidisciplinary approach, at scales above

and below the organism, provides a suitable framework for predicting the consequences of global change on wildlife and understanding feedbacks with the biosphere.

REGISTRATION IS FREE. LUNCH AND COFFEE BREAKS ARE INCLUDED. Participants need to pay for their own travelling and accommodation costs.

REGISTRATION DEADLINE: 30 September 2012

To register and for more information: <http://www.ebd.csic.es/website1/congreso/Index.aspx> This symposium will take place in Sevilla, Spain, organized by the Donana Biological Station (EBD-CSIC) (<http://http://www.ebd.csic.es>) within the EcoGenes project (<http://www.ebd.csic.es/ecogenes/index.html>), funded under the Research Potential theme of the EU's Seventh Framework Programme (FP7).

–

Dr Violeta Munoz-Fuentes

Estacion Biologica de Donana (EBD) - CSIC Avda. Americo Vespucio s/n 41092 Sevilla Spain Tel. (W) +34 95 44 66 700 ext. 1082 Tel. (M) +34 670 89 1478 <http://www.ebd.csic.es/> Conservation and Evolutionary Genetics Group: <http://www.consevol.org/> (under construction)

violeta.munoz@ebd.csic.es

---

### StonyBrookU ExptEvol HonorOfDykhuzen Nov3

A one-day symposium entitled “Experimental Evolution and DNA” will be held at Stony Brook University on November 3, 2012. The symposium will recognize the scientific achievements of Dan Dykhuzen and mark his 70th birthday. Registration is now open. Please go to the symposium website for information on the speakers, banquet, and registration:

<http://life.bio.sunysb.edu/ee/symposium> For further information, please contact Fabrizio Spagnolo via email:

spagnolo@life.bio.sunysb.edu

---

### UCollegeDublin ComputationalBiology Dec5-7

Dear Colleagues,

It may be of interest to you and your department that the Conway Institute at University College Dublin is hosting the third annual \*PhD Symposium in Computational Biology and Innovation \*this December. Abstract submission for this event is due to close on \*October 15th.\*

We would be very grateful if you could communicate this information to the members of your institution, especially to the PhD students and young researchers. Please find attached a poster for this event. Further details are listed in the email below and on our website ([www.ucd.ie/phdsymposium](http://www.ucd.ie/phdsymposium)).

We thank you in advance for your assistance,

Best regards, Computational Biology and Innovation PhD Symposium Committee

Dear Colleagues,

We are pleased to announce the third annual \*PhD Symposium in Computational Biology and Innovation, 5 - 7 December 2012\*

Please visit the conference website for further information: [www.ucd.ie/phdsymposium](http://www.ucd.ie/phdsymposium)

The symposium will take place in University College Dublin (UCD) at the Conway Institute of Biomolecular and Biomedical Research. The organising committee of this symposium is composed of PhD students of the UCD Bioinformatics and Systems Biology, and the Wellcome Trust Computational Infection Biology PhD Programmes.

Abstract submission deadline (oral or poster): \*15th October 2012 \*Registration fee\*: 54 Euro (ISCB member), 60 Euro (non-ISCB member) \*

Our aim is to bring together young researchers (Masters and PhD students, junior post-docs) in various research areas of computational biology (e.g. genomics, proteomics, systems biology and mathematical modelling) and provide an opportunity for participants to showcase their research in an encouraging interdisciplinary environment. The symposium offers young researchers the opportunity to interact with eminent computational biologists and is the perfect occasion for exchange of

innovative ideas and inspiring discussions between students, experienced researchers and industry professionals alike.

*/\*Confirmed Speakers:\** Sir. Prof. Philip Cohen, University of Dundee, Scotland Dr. Jürgen Cox, Max Planck Institute of Biochemistry, Germany Prof. Manolis Kellis, MIT, USA Prof. Mihaela Zavolan, Biozentrum Basel, Switzerland Dr. Sven Nelander, University of Gothenburg, Sweden Dr. Henning Hermjakob, EBI, England/

/Additional industry speakers TBC/

Please circulate this announcement to those in your group or your institute who may be interested in attending.

We look forward to welcoming you to University College Dublin this December. If you have any questions, please do not hesitate to contact us.

Kind regards, UCD Computational Biology and Innovation PhD Symposium Committee

*\*/Symposium Sponsors:/\** Irish Research Council  
Clique Systems Biology Ireland  
Enterprise Ireland  
Roche Science Foundation Ireland  
International Society for Computational Biology

UCD Computational Biology and Innovation PhD Symposium  
Email: [phdsymp2012@ucd.ie](mailto:phdsymp2012@ucd.ie)  
Website: [www.ucd.ie/phdsymposium](http://www.ucd.ie/phdsymposium)  
PhD Symposium 2012  
<[phdsymp2012@ucd.ie](mailto:phdsymp2012@ucd.ie)>

---

## UMichigan EvolutionMedicine Sep14

New Evolutionary Foundations for Medicine and Public Health

A Symposium and Lecture Series at the University of Michigan

Special Kick-off symposium Friday Sept 14th

Lectures Tuesdays at 4 PM in 1755 School of Public Health I

Organized by Randolph Nesse & Betsy Foxman in conjunction with Psych 515 and Epid 509

For full information see <http://EvolutionAndMedicine.com>  
For email updates, join EHAnnouncements on MCommunity, or send a note to [EHAP@umich.edu](mailto:EHAP@umich.edu)

This lecture series is sponsored by the Evolution and Human Adaptation Program, (EHAP), the School of Public Health Department of Epidemiology, and the LS&A Department of Ecology and Evolutionary Biology. The lecture by Richard Dawkins is also co-sponsored by the UM Museum of Natural History

Symposium: World Leaders in Evolutionary Medicine

Friday Sept 14 Special Symposium 8:30 AM-Noon in M1020 SPH II (Large Auditorium)

No fee, all welcome. Advance registration is appreciated, but required only for those who would like to stay for lunch discussion. Click here to register by Monday Sept 10 if you would like to join us for lunch

9:00 Stephen Stearns, Evolutionary Biology, Yale University  
Evolutionary medicine: Recent progress and current questions that urgently need answer

10:15 Break

10:30 Cynthia Beall, Genetics, Case Western Reserve  
Evolution and adaptation to high altitude

11:30 Sir Peter Gluckman, Pediatrics and Development, University of Auckland, New Zealand  
Evolution and epigenetics; mismatched living in a mismatched world

12:30 Lunch and discussion for participants who register by Monday Sept 10

Lectures: Tuesdays at 4 PM at The School of Public Health I Auditorium Room 1755 (except as otherwise indicated)

Sept 18 Gilbert Omenn, Genetics, Bioinformatics, Molecular Medicine, University of Michigan  
An Overview of Evolution and Public Health

Sept 25 Bernard Crespi, Evolutionary Biology, University of British Columbia  
Where Darwin Meets Freud: Evolutionary Biology & Genetics of Autism, Psychosis, & the Social Brain  
Tuesday Noon EEB talk: Evolutionary-ecological tradeoffs in human cognition

Oct 2 Carlo Maley, Center for Evolution and Cancer, UCSF (Special Location: Danto Aud. in CV Center)  
Evolutionary insights for understanding, preventing, and treating cancer

Oct 9 James Bull, Molecular Biology, University of Texas at Austin  
Control and prediction of engineered viral genomes (Tue Noon EEB talk: Control and prediction of engineered viral genomes)

Oct 23 Richard Dawkins, Biology, Oxford University (Special Location: Michigan Theatre)  
The Magic of Reality (based on his book by that title)

Oct 30 Kenneth Pienta, Cancer Center, University of Michigan  
Evolutionary applications in cancer research

and treatment

Nov 6 Barbara Natterson, Cardiology, Internal medicine, UCLA Zoobiquity: What 200 Million Years of Congestive Heart Failure, Brain Tumors, and Separation Anxiety Can Teach Us About Contemporary Human Health

Nov 13 Daniel Nettle, Center for Behavior and Evolution, University of Newcastle, UK The long reach of childhood: Why does experience in early-life have such a big effect on adult behavior?

Nov 20 Special Presentations: Is evolution useful in the clinic, the lab, or both? Paul Turke, Department of Pediatrics, University of Michigan Breaking the barriers to Darwinian pediatrics Alan Weder, Department

of Medicine, University of Michigan

Nov 27 William Leonard, Anthropology, Northwestern University What did humans evolve to eat?

Dec 3 Gillian Bentley, Medical Anthropology University of Durham, UK Migration, modern environments, and female reproductive disorders

Dec 10 Pejman Rohani, School of Public Health, University of Michigan Evolutionary modeling of infectious disease

EHAP is sponsored by LS&A, the Department of Psychiatry, The Department of Psychology, and the Research Center for Group Dynamics at ISR. To add your address to the mailing list for weekly updates on each lecture, send a note to EHAP@umich.edu.

---

## GradStudentPositions

BIKF Germany EvolutionaryEcol .....	12	UGhentUGroningen EvolutionaryDynamics .....	24
ETH Zurich PathogenEvolutionaryGenomics .....	13	UGroningen EvolutionaryBiol .....	25
FloridaIntlU EvolutionaryBiol .....	14	UGroningenUZurich HouseflySex .....	26
IIASA Austria SummerProgram .....	15	ULausanne AlternativePhenotypesAnts .....	26
INRA France PlantBiodiversity .....	15	UMissouri AmphibianGeneticDynamics .....	27
MaxPlanckInst Biodiversity .....	16	UQueensland EvolutionaryGenetics .....	27
MaxPlanckInst EvolutionBehaviour .....	17	USeville EvolutionaryBiology .....	28
MaxPlantInst GuppyGenomics .....	18	USussex ULund EvolutionaryGenetics .....	29
MichiganTechU TreeComparativeGenomics .....	18	UWyoming PlantConservation .....	29
Portugal InvasiveFungi .....	18	UZurich 2 BrainEvolution .....	30
RennesU PopGenetics and Asexuality .....	19	UZurich AvianFamilyEvolution .....	30
RennesU France TheoPopGenet .....	20	UZurich HIV evolution .....	31
SanFranciscoStateU PlantSystematics .....	21	UZurich HostParasiteEvolGen .....	31
Spain ComparativeGenomics .....	22	UppsalaU PlantDNABarcoding .....	32
StonyBrookU EvolutionaryBiol .....	22	Vienna EvolutionMouseCommunication .....	33
UCambridge Speciation Behavioural Genetics .....	23		
UGeorgia SREL 12 EvolutionaryBiol .....	24		

---

### BIKF Germany EvolutionaryEcol

“ The Aquatic Evolutionary Ecology and Integrated

Modelling of Stream Ecosystems Research Groups of the Biodiversity and Climate Research Centre (BiK-F) jointly invite applications for a PhD Student Position (Caddisfly genera in the Tibetan-Himalayan region) [Ref. #A37a]

Job description: The PhD candidate will study the

molecular systematics, larval morphology, and trait evolution of the caddisfly genera *Rhyacophila* and *Himalopsyche* in the Tibetan-Himalayan region. The position is integrated in the German Research Foundation (DFG) project "Niche Evolution of Tibetan-Himalayan Rhyacophilidae" (DFG PA1617/2-1). The candidate will investigate the phylogenetic relationships and trait evolution of the target species. In particular, three main objectives will be addressed: a) DNA-based assignment of larvae and adults and morphological and ecological characterization of larvae, and b) reconstruction of phylogenetic relationships and historical biogeography, and c) assessment of morphological and ecological trait evolution through time. The successful candidate will join a highly motivated team of 10 scientists and research support staff working in the groups of Dr. Steffen Pauls and Dr. Sonja Jähnig on a variety of topics in molecular systematics and population genetics of aquatic insects and riverine modeling. The workplace is Frankfurt, Germany, but field trips to Himalayan countries will be necessary.

Essentials: Candidates must hold a Master Degree in Biology or related disciplines. He or she should have a background in evolutionary biology or molecular systematics and phylogenetics, a strong interest in working with aquatic insects using both molecular and morphological approaches, very good organization skills, and the ability and motivation to perform field work in remote mountain areas. We are seeking an individual with excellent verbal and written communication skills who is willing to co-operate with other research groups at BiK-F and with our international collaborators in the Europe, North America and Asia.

Conditions of employment: The position is part-time (65%). Salary and benefits are according to a public service position in Germany (Hessen) (TVH-E13). BiK-F and Senckenberg wish to increase the share of women in areas where they are underrepresented, and strongly encourage women to apply. BiK-F and Senckenberg have an affirmative action policy for the disabled and especially encourages them to apply. The contract is for three years and shall start Dec 1, 2012 or as soon as possible thereafter. The workplace is Frankfurt, Germany, but extended field trips to Himalayan countries will be necessary. The Biodiversity and Climate Research Centre (BiK-F) is an interdisciplinary institute with a dedicated focus on the interaction of biodiversity and climate change. Founded by the Senckenberg Gesellschaft fuer Naturforschung, Goethe-University Frankfurt am Main, and partners, BiK-F is funded by the Federal State of Hesse through its Initiative for the Development of Scientific and Economic Excellence (LOEWE). It provides a young, dynamic

research environment that integrates a variety of disciplines from biological, geological, and social sciences. Senckenberg Gesellschaft für Naturforschung has an international reputation in all fields of Natural History research. It runs six research institutes and two museums in Germany and is also custodian of the UNESCO World Heritage Site at Messel.

Interested? Please send applications including a letter outlining your motivation and suitability for the PhD student position, a detailed CV including a list of publications and solicited funding, contact details of 2 referees, and copies of educational transcripts in a single PDF file to [recruiting@senckenberg.de](mailto:recruiting@senckenberg.de). For full consideration send your application by September 30th 2012. For scientific enquiries feel free to contact: [steffen.pauls@senckenberg.de](mailto:steffen.pauls@senckenberg.de)"

–  
Dr. Steffen Pauls Aquatic Evolutionary Ecology Biodiversity and Climate Research Centre (BiK-F) Senckenberganlage 25 D-60325 Frankfurt am Main +49 (69) 7542-1884 +49 (69) 7542-1800 [steffen.pauls@senckenberg.de](mailto:steffen.pauls@senckenberg.de)

Steffen Pauls <[steffen.pauls@senckenberg.de](mailto:steffen.pauls@senckenberg.de)>

---

## ETH Zurich PathogenEvolutionaryGenomics

PhD position in evolutionary genomics of pathogens at the ETH Zurich / Switzerland

Modern agriculture relies on effective control of pathogens. The continent-scale homogenisation of crop varieties and the heavy reliance on a small set of fungicides has greatly increased risks to global food security. The speed of pathogen adaptation to new crop varieties is directly related to the extent of mono-cultures. The genomic revolution fundamentally altered the field of pathogen research. The establishment of reference genome sequences for a large number of pathogenic fungi and bacteria provided extensive catalogues of the genomic and functional characteristics of pathogens. The comparison of different pathogen genomes revealed similar strategies for host exploitation. However, the evolutionary history of effectors or host specific toxins remains largely obscured by the fact that these genes seem to arise rapidly and share little sequence similarity.

The next phase in the genomic revolution will be the

sequencing of very large numbers of isolates within one species. *Mycosphaerella graminicola* (synonym *Zymoseptoria tritici*) is a major pathogen of wheat that incurs up to 30% yield loss during outbreaks and has a well documented evolutionary history. The pathogen emerged from wild progenitor species found on wild grasses in the Fertile Crescent. *M. graminicola* carries an extensive set of accessory chromosomes (chromosomes not found in all members of a species). Accessory chromosomes likely provide a cradle for adaptive evolution in pathogens. Despite the high-quality genomic resources, very few genes involved in host virulence and climate adaptation are known.

We aim to identify the various selective pressures that acted on the genome by analyzing 120 genomes from four different populations covering the geographic range and the phenotypic diversity of the species. We will use genome-scale comparisons to document fundamental mechanisms shaping the evolution of gene and chromosomal structure. This project will be at the interface of genome and evolutionary biology, as well as agricultural sciences.

This project is best suited for a biologist (MSc or Honors BSc) with a strong interest both in evolutionary biology and the analysis of genomic sequences. Experience in bioinformatics, statistics (e.g. R) and/or programming is a plus but not a requirement. A strong motivation to learn these techniques and a willingness to work in a team will be important.

You will be supervised jointly by Dr. Daniel Croll and Prof. Bruce McDonald at the Institute for Integrative Biology at the ETH Zurich. You will have access to a state of the art user laboratory (Genetic Diversity Centre), next-generation sequencing center (at the D-BSSE) and high-performance computing resources (BRUTUS). The workplace is located in the center of Zurich and provides a wealth of opportunities to interact with other students.

For further information, please contact: [daniel.croll@usys.ethz.ch](mailto:daniel.croll@usys.ethz.ch)

For your application, please send a pdf containing both a statement of your research interests (1 page) and a CV (2 pages) including addresses and phone numbers of two academic references to [daniel.croll@usys.ethz.ch](mailto:daniel.croll@usys.ethz.ch).

Dr. Daniel Croll ETH Zurich Institute for Integrative Biology Universitätsstrasse 2 CH-8092 Zürich

<http://n.ethz.ch/~dcroll>

Prof. Bruce A. McDonald ETH Zurich Institute for Integrative Biology Universitätsstrasse 2 CH-8092 Zürich

<http://www.path.ethz.ch>

Daniel Croll

[<daniel.croll@usys.ethz.ch>](mailto:daniel.croll@usys.ethz.ch)

---

## FloridaIntIU EvolutionaryBiol

The Bracken-Grissom Lab at Florida International University in the Department of Biology and Marine Sciences Program is looking for highly motivated graduate students with an interest in evolutionary biology, marine invertebrates and molecular methods.

### Research Interests

The Bracken-Grissom Lab is fundamentally interested in the evolution of marine invertebrates with an emphasis in decapod crustaceans. Specifically, our present research combines molecular, morphological and fossil evidence to gain insights into evolutionary relationships (phylogeny), biogeography, biodiversity, ecology, origins and diversification of crabs, lobsters and shrimp. As part of this research, we have been developing and applying novel methods for DNA sequencing using next-generation technology and directed sequencing. More recently, we have been exploring visual systems and structures involved in marine bioluminescence using deep-sea shrimp as model organisms. Present awarded grants propose to study the effects of the Deepwater Horizon Oil Spill on the Gulf of Mexico coastal and deep bank ecosystems. We are using gene expression studies and transcriptomics to assess the stress response of nearshore decapod crustaceans to increased oil exposure.

### Qualifications

Applicants should have a background in evolutionary biology and molecular methods. Experience with invertebrate zoology, phylogenetics, systematics, next generation sequencing methods and/or bioinformatics is a plus. Students would ideally have a B.S. degree in Biology or related discipline. Student must be proficient in English (both spoken and written). Our work requires good organizational and computational skills and the ability to work collaboratively as part of a team. Occasional physically demanding fieldwork may also be required to support research.

### Requirements

The Bracken-Grissom lab is looking for 2 graduate students to start in the Fall of 2013. PhD candidates are preferred but students interested in pursuing an MS degree are welcome to apply. If you are interested in applying for a graduate posi-

tion in my lab, please send a letter of interest to [hbracken@fiu.edu](mailto:hbracken@fiu.edu) describing your research interests, career goals and rationale for pursuing a graduate degree along with a CV. Graduate students admitted to the program receive guaranteed funding from the Department for up to 4 years. Additional information on my lab's research, the biology department, and marine sciences program can be found here: and <http://heatherbracken.wix.com/brackengrissomlab>, <http://biology.fiu.edu/> and [www.fiu.edu/~marine](http://www.fiu.edu/~marine). More information on the application process and Graduate School at FIU can be found here <http://gradschool.fiu.edu/>. Application deadline Jan 15th 2013.

#### Contact Information

Heather Bracken-Grissom, PhD Assistant Professor  
Dept. of Biological Sciences Florida International  
University-Biscayne Bay Campus 3000 NE 151 Street,  
MSB-353 North Miami, Florida 33181, USA 305 919-  
4190 (Phone)

[heather.bracken@gmail.com](mailto:heather.bracken@gmail.com)

---

## IIASA Austria SummerProgram

Evolutionary biologists may be especially interested in IIASA's Evolution and Ecology Program < <http://www.iiasa.ac.at/web/home/research/-researchPrograms/EvolutionandEcology/New-page.en.html> >.

Summer Program in Austria for Ph.D. candidates - Applications open as of 1 October 2012

Where: International Institute for Applied Systems Analysis - IIASA When: June, July, August each year

About the Program: IIASA's annual 3-month Young Scientists Summer Program (YSSP) in Austria/Europe offers research opportunities to 50 talented PhD students whose interests correspond with IIASA's ongoing research on real life global issues such as climate change, evolution & ecology, energy, food & water, economics, and poverty.

>From June through August accepted participants work within the Institute's research programs under the guidance of IIASA's scientific staff.

Funding is provided through IIASA's 20 National Member Organizations. < <http://www.iiasa.ac.at/web/-home/about/nationalmembers/National-Member-Organizations.en.html> >

Accepted participants work in a unique atmosphere at a castle located south of Vienna, where they:

- \* advance their research under the direct supervision of experienced IIASA scientists,
- \* broaden their research interests by working in IIASA's interdisciplinary and international research environment;
- \* build contacts with IIASA's worldwide network of collaborators and with other YSSP fellows;
- \* have an opportunity to present their research at a designated summer workshop.

The program offers a wide range of scientific events, including both social and natural sciences, often with important policy dimensions. Since 1977 over 1700 participants from 85 countries have participated in the program and establishing networks which helped them in their future scientific careers, and making new friends all over the world.

Applications are submitted online and are running from October until January each year. For further information please get in touch with the YSSP Coordinator Tanja Huber ([huber@iiasa.ac.at](mailto:huber@iiasa.ac.at)), visit our website ([www.iiasa.ac.at/yssp](http://www.iiasa.ac.at/yssp)), or find us on facebook (IIASA).

#### Contact Information:

Tanja K. Huber (Mag.) IIASA YSSP Coordinator  
IIASA Postdoctoral Coordinator International Institute for Applied Systems Analysis Austria - Schlossplatz 1, 2361 Laxenburg

Tel +43-2236-807-344 Fax +43-2236-713-13 link to: Young Scientists Summer Program < <http://www.iiasa.ac.at/web/home/education/yssp/About-the-Program.en.html> >

HUBER Tanja <[huber@iiasa.ac.at](mailto:huber@iiasa.ac.at)>

---

## INRA France PlantBiodiversity

PhD in Plant functional ecology, INRA Clermont-Ferrand, France.

The project will assess how the effects of extreme weather events can act as pressures threatening biodiversity, resilience and ecosystem services of semi-natural grasslands and can suddenly drive them beyond thresholds of system integrity. Plant diversity itself may buffer against these pressures. Potential stabilizing mechanisms include species richness, presence of key species such as legumes. These potential buffers can be promoted by conservation management and political decisions. The frequency and magni-

tude of extreme climatic events are expected to increase with ongoing climate change. Their effects on biodiversity and ecosystem functioning can be severe, e.g. reduced productivity or altered successional trajectories of species compositions in response to extreme drought. However, other studies find surprisingly high resilience of several ecosystem functions in the face of extreme drought. Yet, it is suggested that more extreme rainfall regimes will negatively affect mesic ecosystems, while xeric ecosystems might even benefit.

Grasslands provide the domestic herbivores diet in quantity and quality. A decline in production, linked to more severe stress, could be accompanied by a decline in forage quality, due to a change in species composition, structure herbaceous cover and / or the nutritional status of plants. Climate scenarios developed in the last IPCC report forecast an increase in the number of days without precipitation. Under these conditions, it is important to assess the ability of plants of upland grassland to resist and recover from more frequent and intense stress.

PhD student will study the resistance and recovery of perennial grassland in response to water stress, for which the seasonality of occurrence will be taken into account. This will be discussed at the plant community and the functional groups levels in a field experiment and in mixtures of grasses associated with legume species in semi-controlled conditions.

We are looking for highly motivated students with a background in plant ecology, or plant ecophysiology. Applicants should have the equivalent of a master degree. The working languages in the lab is English (French is a plus for social interactions, courses will be offered by the lab if needed). The student should be able to start by February 2013.

Evidence of excellent written and analytical skills, as well as enthusiasm for field and laboratory research, work with a team, will be a plus.

Applicants should send a CV, an authorized copy of a Master, and contact information of at least two reference persons to [catherine.cochard@clermont.inra.fr](mailto:catherine.cochard@clermont.inra.fr) before the 21<sup>st</sup> December 2012. Please, in a first email of contact, indicate briefly but clearly your interests and skills with plant functional ecology.

Review of applications will begin immediately and continue until the position is filled. Please contact C. Picon-Cochard with any questions.

Mail address: 5 chemin de Beaulieu, F-63100 Clermont-Ferrand, 33 4 73 62 45 84

Email : [catherine.cochard@clermont.inra.fr](mailto:catherine.cochard@clermont.inra.fr)

Start date is flexible and can be as early as February 2013.

Graduate position for 3 years.

Gross salary: 1757 â¬permonth

Catherine Picon-Cochard, INRA, UR Ecosystème Prairial (Grassland Ecosystem Research), 5 chemin de Beaulieu, 63100 Clermont-Ferrand, tel : 33 4 73 62 45 84, fax :33 4 73 62 44 57 [https://www1.clermont.inra.fr/urep/page\\_perso/-Catherine.PiconCochard.htm](https://www1.clermont.inra.fr/urep/page_perso/-Catherine.PiconCochard.htm) Catherine Cochard <[catherine.cochard@clermont.inra.fr](mailto:catherine.cochard@clermont.inra.fr)>

---

## MaxPlanckInst Biodiversity

\*PhD position\*

\*\*

\*Influence of plant genetic traits on insect biodiversity and plant productivity \*

A PhD position is available in the Biodiversity Project Group of the Max-Planck-Institute for Chemical Ecology (MPICE), Department of Molecular Ecology and the newly established German Center for Integrative Biodiversity Research (iDiv) in Leipzig. The group uses the well characterized ecological model plant *Nicotiana attenuata* to identify genetic traits that mediate functional links with ecological networks.

We will use molecular tools (transcriptome, metabolome analysis) and bioassays to study the effects of specific genes (by using transgenic plants) on performance of single herbivore species. Mesocosm experiments in the newly established ecotron facility will be used to study the influence of single plant genetic traits (by using reversed genetics) on herbivore population dynamics and plant productivity. We will also perform field experiments in the plants natural environment (Great Basin desert, Utah, USA) to verify the data we have obtained from mesocosm studies. In collaboration with the Ecological Modeling Department of the Helmholtz Center for Environmental Research in Leipzig (Prof. Volker Grimm), we will create models to simulate plant productivity and herbivore population dynamics. These results will be important to formulate general hypotheses about the underlying mechanisms shaping plant-insect interaction networks and thereby, biodiversity.

We are seeking for a highly motivated candidate with



strong background in insect and plant ecology and physiology. The project can start immediately at the MPI in Jena, but will continue at the iDiv in Leipzig by the end of 2013.

We offer exciting research questions, state-of-the art equipment and an excellent research environment. Successful candidate will receive a PhD fellowship. The position is available immediately and opens until filled.

Please send your application including CV, statement of research interests, names and e-mail addresses of two referees to: Dr. Stefan Meldau, [smeldau@ice.mpg.de](mailto:smeldau@ice.mpg.de)

Dr. Stefan Meldau Group leader iDiv MPI-CE Biodiversity project group Department of Molecular Ecology Max-Planck-Institute for Chemical Ecology Hans-Knöll-Str.8 07745 Jena <http://www.ice.mpg.de/ext/hopa.html?pers=stme2338&d=itb> <http://www.ice.mpg.de/ext/itb-groups.html#c2793> German Center for integrative Biodiversity Research (iDiv) Leipzig

[smeldau@ice.mpg.de](mailto:smeldau@ice.mpg.de)

---

## MaxPlanckInst EvolutionBehaviour

Master internship in Ethology - Animal communication. (Vocal communication among zebra finches)

We are seeking one motivated master student (MsC internship or equivalent) interested in taking part in laboratory studies at the Max Planck Institute in Seewiesen, Germany. Applicants will complete his/her thesis being part of the behavioral neurobiology group, department Gahr. [http://orn.iwww.mpg.de/2542/-Department\\_Gahr](http://orn.iwww.mpg.de/2542/-Department_Gahr) Supervisor: Dr. Andries ter Maat

Tutor: Pietro D'Amelio

The project aims to clarify whether Zebra Finches are able to recognize the unlearned contact calls by vocal clues and whether these calls are necessary for pair bonding maintenance.

Project description:

The Zebra Finches are one of the commonest study model for research on vocal communication, mainly regarding song learning and production. However dynamics of call production and messages delivered still remain to be unraveled. Our group aims to find out why and how calls are elicited within a social network.

The relationships within pairs represent an especially

salient aspect of the social system of Zebra Finches, a socially monogamous species with long term pairing. By employing behavioural analysis and correlating the call production of different individuals we want to investigate whether the different call types are important for pair bond maintenance and for advertising this to all the other members of the group.

Using techniques developed in our group, the student has to design experiments aiming to answer 2 questions:

- a) Are Zebra Finches able to discern their mate's unlearned contact calls on the basis of their acoustic features?
- b) Is calls production necessary for pair bond continuity?

Students are encouraged to develop their own experimental setting within the framework of the research program.

Main Material and Methods:

-Use of micro-cameras and backpack wireless microphones.

-Video analysis (software: Observer 10.5)

-Audio analysis

-Use of statistical software (R)

How to Apply:

Interested applicants are encouraged to make informal enquiries to Pietro D'Amelio, [pdamelio@orn.mpg.de](mailto:pdamelio@orn.mpg.de) . Or directly send a CV and a short motivation letter to the address given below.

The student will work in the cutting edge environment of a Max Planck Institute that gives the possibility to follow seminars, participating to journal club, getting know with established research scientist <http://orn.iwww.mpg.de/en> It is possible to apply for accommodation in the guest house.

Pietro Bruno D'Amelio

PhD student Department Gahr Behavioural Neurobiology Max Planck Institute for Ornithology Eberhard-Gwinner-Straße Haus Nr. 6a 82319 Seewiesen

Tel.: +49 (0) 8157 932 - 263 [pdamelio@orn.mpg.de](mailto:pdamelio@orn.mpg.de)

[pie.damelio@gmail.com](mailto:pie.damelio@gmail.com)

---

## MaxPlantInst GuppyGenomics

M. Sc. research opportunity in bioinformatics on high-density genetic map

Recent advances in sequence technologies enable researchers to sequence genomes in a reasonable time frame. Our group makes use of these improvements and is sequencing and assembling the whole guppy (*Poecilia reticulata*) genome. This project will be fundamental to our understanding of natural variation, adaptation to contrasting habitats, as well as comparative genomics and sex chromosome evolution.

To be able to order and to verify the assembled genome, fine-scale genetic maps are a useful tool. We construct such maps based on Restriction Enzyme associated DNA (RAD).

We offer a Master of Science project devoted to compilation and verification of high-density genetic maps. Very dense maps are an important brick stone for whole genome de novo assembly and for QTL mapping. A subsequent Ph.D. project may be envisaged.

Applicants we expect to have significant computer science skills and motivation. We can offer you a very friendly international group of biochemists, biologists and bioinformaticians.

Applications should be directed by e-mail to christine.dreyer at tuebingen.mpg.de or to Dr. Axel Künstner axel.kuenstner at tuebingen.mpg.de

Prof. Dr. Christine Dreyer Max-Planck-Institut für Entwicklungsbiologie Abt. Molekularbiologie Spemannstr. 37-39

<http://www.weigelworld.org/research/projects/-guppyvariation/> The Max Planck Society is an equal opportunity employer and is committed to improving opportunities for women in science.

Christine Dreyer <christine.dreyer@tuebingen.mpg.de>

---

## MichiganTechU TreeComparativeGenomics

Ph. D. position Identification of the genes controlling wood composition in poplar Biotechnology Research Center School of Forest Resources and Environmental Science Michigan Technological University, Houghton, MI

A Ph.D. position (4 years) on a NSF-funded project is available at the earliest possible date (anticipated start

of the project: fall 2012). You will be involved in a project that employs diverse molecular techniques to identify and map the genes controlling wood composition in poplar. Comparative genomic approaches (gene trees) will be used to better understand the evolution of these genes and to identify functional sites. You will be part of Michigan Tech's Ph. D. in Forest Molecular Genetics and Biotechnology graduate program and will have ample opportunities to interact with other faculty, research scientists and graduate students (<http://forest.mtu.edu/gradstudies/prospective.htm>).

A MS degree earned in the field of plant molecular biology and/or genetics is essential. A background in molecular biology (e.g. recombinant DNA techniques, gene expression analyses), genetic mapping (QTL mapping) and evolutionary genetics is highly desirable. Selection will be based on academic achievements, reference letters and previous research experience. An on-Campus personal interview may be required. Tuition and fees waiver and a standard stipend package commensurate with your experience will be offered.

Send resume highlighting your experience and interests, GRE scores (TOEFL required for international students), and names and email addresses of three references to Drs. Shekhar Joshi (cpjoshi@mtu.edu) and Oliver Gailing (ogailing@mtu.edu) School of Forest Resources and Environmental Science, Michigan Technological University, Houghton, MI 49931. Please visit <http://www.mtu.edu/forest/about/faculty/> for more information on our research programs. Michigan Technological University is an equal opportunity education institution/equal opportunity employer.

Oliver Gailing <ogailing@mtu.edu>

---

## Portugal InvasiveFungi

Centre for Functional Ecology Department of Life Sciences University of Coimbra

Fellowship opportunity Reference PTDC/BIA-BIC/122142/2010 - "What makes *Amanita phalloides* a successful invader? Insights from studies in its native range" (AMANITA)

We offer a fellowship as part of the research project AMANITA (PTDC/BIA-BBIC/122142/2010) recently funded by the Portuguese National Science and Technology Foundation (FCT) that aims at dissecting possible genetic and ecological controls on host associations

of *A. phalloides* in its native range (Europe), providing insight into the behavior of *A. phalloides* in North America, where the fungus has been introduced and is now an invader. The research will involve field work across Europe and laboratory work at the Department of Life Sciences of Coimbra University (Portugal) in collaboration with Anne Pringle at the Department of Organismic and Evolutionary Biology of Harvard University (USA) where the fellow will receive complementary training.

The fellow shall: 1) Perform field work to sample soil, sporocarps of *A. phalloides* and mycorrhizas across Europe; 2) Carry out laboratory work using a variety of molecular tools to identify *A. phalloides* mycorrhizas and hosts, perform genetic fingerprinting of sporocarps, estimate the relative abundance of extramatrical mycelia of *A. phalloides* in soil and assess the diversity of ectomycorrhizal fungi communities; 3) Collaborate in the analysis of results and writing of scientific papers.

Candidates should hold a Master degree in Biology, Molecular Biology or related areas and have proven laboratory experience in molecular biology techniques (DNA extraction, PCR, electrophoresis, genotyping, real-time PCR). Preference will be given to candidates with a background in Ecology or/and Genetics, interest in Fungal Biology and on the topic of Biological Invasions, candidates that are genuinely motivated about the project, are enthusiastic about field work (should have a driving license and the ability to conduct independent field work) and are willing to often travelling. Fluency in English and informatics literacy are mandatory (experience in bioinformatics is a plus).

The fellowship awards a monthly allowance of 980 EUR to be paid by bank transfer. The fellow also benefits from a personal accident insurance policy covering research activities and will be reimbursed of costs resulting from contributions to social security would he decide to sign up for the voluntary social security regime. The project will cover the research expenses. The fellowship is open to all nationalities and is funded for a period of 6 months renewable for the entire duration of the project. Portuguese citizens, or citizens from other European Union member states, are eligible to obtaining further funding from FCT to pursue PhD studies.

Please apply by sending a covering (motivation) letter describing your research interests and past scientific experience, a detailed CV, copy of the Msc degree certificate, and the contact information for two professional referees to Susana Gonçalves (sconcal@ci.uc.pt). Please include the reference of the project in the subject line of the e-mail. Deadline for applying is September 21, 2012. Starting date is flexible

but foreseen for the winter of 2012. Informal inquiries are welcome.

Susana Gonçalves Post-Doctoral Researcher

Centro de Ecologia Funcional Centre for Functional Ecology

Departamento de Ciências da Vida Universidade de Coimbra Apartado 3046 3001-401 Coimbra Portugal

Tel: +351 239855210 Direct: +351 239855249 Fax: +351 239855211

email sconcal@ci.uc.pt email' sconcal@gmail.com  
URL <http://cfe.uc.pt/susanagoncalves> Save a tree.  
Don't print this e-mail unless it's really necessary.

Catch up with the latest research on serpentine ecology! <http://icse2011.ultramafic-ecology.org> Susana Gonçalves <sconcal@ci.uc.pt>

---

## RennesU PopGenetics and Asexuality

We invite applications for a full-funded PhD position at Rennes University, France

Population Genetics and Evolution of partial asexuality: Inferring and modelling the impacts of partial asexuality on population genomics

\*Assumptions and questioning\*

\*~~~~~

The PhD student will tackle what are the quantitative effects of partial asexuality on the expected genetic/genomic diversity and its structure in metapopulations when those ones undergo selective pressures and, Do the joint effects of the evolutionary forces and partial asexuality result in distinctive genomic patterns from which biologists may infer the current and past evolution of such species.

The PhD student will answer by completing a population genetics model dedicated to partially asexual organisms to take into account for selective processes and by analysing a wide range of datasets and simulations results. The mathematical model will allow to study the evolutionary specificities and the genomic patterns left by of such functioning, and to propose some inference methods. The model we use without selection has already shown that evolution of the genetic diversity of partially asexual species diverges the ones expected

from pure sexual and asexual species.

\*The main prospective steps of the thesis\*

\*~~~~~

The work will consist in extending a mathematical model by formalizing the selective processes applied on genotypes. The model will become automated in optimized computation algorithms (in collaboration with the Symbiosis team, IRISA, Rennes). The model outputs will be analyzed and confronted to simulation results, biological knowledge and experimental data (already acquired in a wide range of organisms), the four other partners of the ANR (the collaborative grant that fund the PhD expenses) and a scientific network. The PhD student will explore the trends of his/her quantitative predictions, identify the specific effects of partial asexuality on population genetics indices under selection and participate in providing new descriptive indices adapted to such species (in collaboration with S.Arnaud-Haond, Ifremer, Montpellier). She/He will participate in the development of quantitative inference methods to identify forces and effective rates of asexuality under which genomes have evolved. Finally, the PhD student will reinterpret the historical significance of asexuality in the evolutionary histories of varied organisms.

/Methodological and technical approaches considered/

-Running and developing mathematical population genetics models (Markov chain, differential equation, diffusion process, network analyses, sensitivity analysis) and simulations.

-Low level parallel computation, optimized compilation, GPGPU.

-Analyses and interpretations of theoretical predictions in population genomics and of already acquired datasets (plants, algae, fungi, insects, coral, human diseases).

//

\*Scientific and technical skills required by the candidate\*

\*~~~~~

We are looking for highly motivated students with a background in population genetics, applied mathematics or computer sciences. Applicants should have the equivalent of a masters degree. The working languages in the lab is English (French is a plus for social interactions, courses will be offered by the lab if needed). The student should be able to start by November 2012.

Good knowledge in at least one of those domains and a high motivation to learn the others: a) Mathematical

modelling (Markov chain, diffusion processes, stochastic differential equation); b) optimized algorithm and computation (python, C, GPGPU, cloud computing); c) Population genetics and Evolution. As a part of the PhD project will gain from collaborations and interaction with many other scientists from other institutes and countries, we are looking for skilled applicants also at ease in teamworking.

Applicants should send a CV, an authorized copy of a Master or equivalent degree, and contact information of at least two reference persons by the 1st of September 2012 to [solenn.stoeckel@rennes.inra.fr](mailto:solenn.stoeckel@rennes.inra.fr)

For more information, please contact quickly [solenn.stoeckel@rennes.inra.fr](mailto:solenn.stoeckel@rennes.inra.fr) and [jean-christophe.simon@rennes.inra.fr](mailto:jean-christophe.simon@rennes.inra.fr) or by phone at +33 (0)2 23 48 70 83

—

\*More information about the Practical context and objectives of the PhD\*

\*~~~~~

This PhD position forms a part of a stating project entitling Revisiting the Population Genetics and Genomics of clonal organisms funded by the French National Research Agency for the next 4 years. It will involve 4 other reputed French teams in population genetics and will imply collaborations with other labs in other countries. The student will visit their labs yearly using the funds already allocated for and we will encourage the student to create his/her own collaborations to

— / —

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

## **RennesU France TheoPopGenet**

Theoretical population genetics and evolution of partial Asexuality/Clonality, Rennes University, France.

Due to a last-minute withdrawal for another PhD, new call for this PhD proposal:

The project will assess the quantitative effects of partial asexuality on theoretical population genetics. The PhD student will use mathematics and simulations to study the evolutionary specificities and the genomic

patterns left by partial asexuality with the aim to develop indirect inference method. Methods will be applied to a broad range of datasets (plants, Insects, Algae, Fungi). Several extensions are possible around this topic. The PhD student will be helped in its developments by mathematicians, computer scientists and population geneticists within a larger funded project.

We are looking for highly motivated students with a background in population genetics, applied mathematics or computer sciences. Applicants should have the equivalent of a master degree. The working languages in the lab is English (French is a plus for social interactions, courses will be offered by the lab if needed). The student should be able to start by November 2012. Good knowledge in at least one of those domains and a high motivation to tackle the others are required: a) Mathematical modelling (Markov chain, diffusion processes, stochastic differential equation); b) optimized algorithm and computation (python, C, GPGPU, cloud computing); c) Population genetics and Evolution. We are looking for motivated applicants that are also at ease in teamworking.

Applicants should send a CV, an authorized copy of a Master or equivalent degree, and contact information of at least two reference persons as quickly as possible to [solenn.stoeckel@rennes.inra.fr](mailto:solenn.stoeckel@rennes.inra.fr) before the 1<sup>st</sup> October 2012. Please, in a first email of contact, indicate briefly but clearly your interests and skills with theoretical population genetics, applied mathematics or numeric computation.

For more information, contact [solenn.stoeckel@rennes.inra.fr](mailto:solenn.stoeckel@rennes.inra.fr) and [jean-christophe.simon@rennes.inra.fr](mailto:jean-christophe.simon@rennes.inra.fr) or by phone at +33 (0)2 23 48 70 83

Graduate position for 3 years. Opportunities afterwards.

[solenn.stoeckel@rennes.inra.fr](mailto:solenn.stoeckel@rennes.inra.fr)

---

## SanFranciscoStateU PlantSystematics

M.Sc. Position in Plant Systematics/Evolutionary Biology

Project title: Assessing phylogeny and biogeography in a megadiverse tropical plant family (Melastomataceae)

Available position: A two-year Master of Science

position is available in the Biology Department at San Francisco State University (SFSU: <http://biology.sfsu.edu/programs/graduate>), and in conjunction with the California Academy of Sciences (CAS: <http://www.calacademy.org/>). The M.Sc. student will enroll in classes at SFSU, and have an office and lab based at CAS under the supervision of Frank Almeda, Peter Fritsch, and Darin Penneys.

Description of the project: Melastomataceae (Princess Flowers) are one of the largest families of plants, forming prevalent components of many tropical biodiversity hotspots. They serve as a major food source for bees and seed dispersers such as birds and mammals, and play a critical successional role in the regeneration of disturbed forests. Through a combination of field work in targeted countries, molecular phylogenetic techniques, and scanning electron microscopy, the investigators aim to improve the classification of Melastomataceae, develop means to easily identify its major groupings (genera and tribes), track how diagnostic characters in the family have evolved, test ideas on how pollination systems have evolved in tropical ecosystems, evaluate models of ancient climate change, and provide new data to inform and direct conservation priorities.

Tasks for M.Sc. student: Execute scientific research as detailed in the project description; scanning electron microscopy and descriptions of seeds; DNA sequencing; fieldwork in southeast Asia; gathering and analyzing data leading to a successful thesis defense within two years; completion of required graduate credits at SFSU while maintaining at least a 3.0 GPA.

Requirements: B.S. degree in Biology or very closely related discipline with a minimum 3.0 GPA; courses in botany, plant systematics, molecular biology, evolution, or equivalent; highly proficient in both written and spoken English (must have high scores in TOEFL and GRE exams). Ability to work efficiently, independently as well as in collaboration, and high motivation will be assets. Experience with fieldwork in Southeast Asia, participation in scientific investigations, and fluency in a Southeast Asian language(s) is strongly preferred. Additional university application requirements will also need to be fulfilled (see <http://biology.sfsu.edu/programs/graduate>).

Financial support: An annual stipend will be provided for a total of two years to cover tuition for full-time enrollment at SFSU, rent, food, textbooks, basic living expenses, visa fees, and two round-trip international flights to the home country.

Application closing date: Open until filled, but the position will start at the earliest possible date (beginning either January 2013, or August 2013). Candidates

should indicate when they could start the position. To apply, assemble the following documents into a single pdf file: 1) cover letter describing abilities and motivation; 2) Curriculum Vitae; 3) unofficial transcripts; 4) copies of relevant published or in-press papers, if any; and 4) contact information for three professional references. Please email this file to Darin S. Penneys at dpenneys@calacademy.org.

For inquiries, please contact: Darin S. Penneys, Ph.D. Department of Botany California Academy of Sciences 55 Concourse Drive Golden Gate Park San Francisco, CA 94118 USA (415) 379-5389 dpenneys@calacademy.org

DPenneys@calacademy.org

---

## Spain Comparative Genomics

We seek candidates for a Spanish FPI doctorate grant for a graduate student related to the project COMPARATIVE GENOMICS, BIOGEOGRAPHY AND FLORAL AND ADAPTIVE EVOLUTION OF MODEL GRASSES funded by the Spanish Ministry of Economy and Competitiveness. Grant project CGL2012-39953-C02-01.

Characteristics of the doctorate grant:

Length: 4 years (1.March.2013-28.February. 2017, Aragon Government grant;

1.September.2013 - 31.October.2017, Spanish Ministry grant;

both yearly renewable according to the scientific production of the PhD student)

Doctorate thesis: Genome annotation, comparative genomics and phylogenomics of the *Brachypodium* model complex (Poaceae)

Centre of research: University of Zaragoza (High Polytechnic School of Huesca, Huesca, Spain) and Estacion Experimental Aula Dei (CSIC, Zaragoza, Spain)

Funding: 2 years grant + 2 years contract based on the Aragon Government or the Spanish Ministry salaries.

Requirements of applicants:

Open to European Community citizens and other countries citizens with homologated degree title

Degree in Biology, Environmental Sciences, Genetics, Agriculture or equivalent with academic formation in

Genomics, Bioinformatics, Evolutionary Biology, Ecology and/or Botany/Plant Biology.

Date of degree: June. 2011 or later

Academic Curriculum of Grade A (average marks equal or above 8, over 10).

Fluid English

Merits:

Expertise in laboratory work (Molecular Biology, Genetics, Genomics), in computation (Bioinformatics), greenhouse work (hybridizations, phenomics) and field work (Botany, Plant Ecology)

Master degree in the area

Deadlines:

30.September.2012: Spanish Aragon Government grant

31.December.2012: Spanish Ministry FPI grant (pending on official announcement)

Aspirants please send a Curriculum Vitae and a message/letter to: Prof. Pilar Catalán (pcatalan@unizar.es), Escuela Politécnica Superior de Huesca (Universidad de Zaragoza), Ctra. Cuarte km 1, 22071 Huesca (Spain).

ernextop@unizar.es

---

## Stony Brook U Evolutionary Biol

GRADUATE OPPORTUNITIES IN ECOLOGY AND EVOLUTIONARY BIOLOGY

The Graduate Program in Ecology and Evolution at Stony Brook University (Long Island, New York) is recruiting doctoral and master's level graduate students for Fall 2013. The following faculty members are seeking graduate students:

H. Resit Akcakaya <http://life.bio.sunysb.edu/ee/akcakayalab/> H. Resit Akcakaya <http://life.bio.sunysb.edu/ee/akcakayalab/prospective.htm>

Stephen B. Baines <http://life.bio.sunysb.edu/ee/baineslab/> Michael A. Bell <http://life.bio.sunysb.edu/ee/belllab/> Liliana M. Dávalos <http://life.bio.sunysb.edu/ee/davaloslab/>

John Fleagle <http://anat.stonybrook.edu/people/facultypage/-fleagle> Lev Ginzburg <http://life.bio.sunysb.edu/ee/ginzburglab/>

Catherine Graham <http://life.bio.sunysb.edu/ee/grahamlab/> Jessica Gurevitch <http://life.bio.sunysb.edu/gurevitchlab/>

Brenna M. Henn [http://www.stanford.edu/~sylpha/Brenna\\_Henn/](http://www.stanford.edu/~sylpha/Brenna_Henn/) Heather Lynch <http://lynchlab.wordpress.com/opportunities/> Dianna K. Padilla <http://life.bio.sunysb.edu/ee/padillalab/> Joshua Rest <http://life.bio.sunysb.edu/ee/restlab/> John True <http://life.bio.sunysb.edu/ee/truelab/> For more information regarding the Graduate Program in Ecology and Evolution see <http://life.bio.sunysb.edu/ee> and <http://life.bio.sunysb.edu/ee/programs.htm> The deadline for receipt of all application materials for the PhD program is January 15, 2013. However, prospective students are strongly encouraged to contact a faculty member well before the deadline, with a detailed description of specific research questions that interest them, their educational and research background, and any special skills, training or experience they may have. In addition, early submission of the formal application is encouraged to ensure full consideration for available fellowships. The deadline for receipt of all application materials for the master's program is April 15, 2013. For additional assistance, please contact our Graduate Program Coordinator, Lee Stanley, [alethia.stanley@stonybrook.edu](mailto:alethia.stanley@stonybrook.edu).

Liliana M. Davalos

Assistant Professor Consortium for Inter-Disciplinary Environmental Research (CIDER), and Ecology and Evolution, SUNY Stony Brook

Office phone: 631 632 1554

[http://life.bio.sunysb.edu/ee/davaloslab/The\\_Lab.html](http://life.bio.sunysb.edu/ee/davaloslab/The_Lab.html) Associate Editor, Molecular Phylogenetics and Evolution <http://www.sciencedirect.com/science/journal/10557903> "Liliana M. Davalos" <[imdavalos@gmail.com](mailto:imdavalos@gmail.com)>

---

## UCambridge Speciation Behavioural Genetics

We are seeking a highly motivated PhD student to investigate butterfly speciation in the tropics. The student will focus on the behavioural genetics of reproductive isolation in the parapatric species *H. erato* and *H. himera*. These two species share a narrow but strongly bimodal hybrid zone in southern Ecuador. Despite genetic differentiation there is no evidence of hybrid sterility/inviability and speciation appears to have been catalyzed by the association of strong mating preferences with divergence in warning coloration and ecology (see below for some relevant publications).

The project would suit someone keen to combine field-work and behavioural experiments in the tropics with molecular lab work. The focus of the project would be to map the genetic basis of mate preferences shifts between *H. erato* and *H. himera*, and would involve spending considerable time at the Smithsonian Tropical Research Institute in Panama, but could additionally involve additional field, lab or insectary experiments depending on the candidate's interests.

The student will be co-supervised by Dr Richard Merrill and Dr Chris Jiggins at the University of Cambridge (<http://heliconius.zoo.cam.ac.uk/>), as well as Dr Owen McMillan at STRI ([http://www.stri.si.edu/english/scientific\\_staff/staff\\_scientist/scientist.php?id=62](http://www.stri.si.edu/english/scientific_staff/staff_scientist/scientist.php?id=62)). As such, he/she will join a highly active international community of researchers studying the genetics of speciation and adaptation in *Heliconius*.

Please note that this is not a funded post. Interested applicants will be supported in their application for funding at Cambridge. The funding deadline for US applicants is 16 October, so potential applicants from the US should get in touch as soon as possible. For more details please see <http://www.zoo.cam.ac.uk/zooone/pgradbk/int.html> and <http://www.admin.cam.ac.uk/students/gradadmissions/prospec/apply/deadlines.html> For further information please contact Richard Merrill ([r.merrill@zoo.cam.ac.uk](mailto:r.merrill@zoo.cam.ac.uk)) - preferably with a CV and the names and contact details of two referees. Please use the subject header: "HELICONIUS SPECIATION PHD".

Relevant publications:

McMillan, W., Jiggins, C., & Mallet, J. (1997) What initiates speciation in passion-vine butterflies? PNAS, 94, 8628-8633.

Merrill, R.M., Van Schooten, B., Scott, J.A., & Jiggins, C.D. (2011) Pervasive genetic associations between traits causing reproductive isolation in *Heliconius* butterflies. Proc. Roy. Soc. B., 278, 511-8.

Mallet, J., McMillan, W.O., & Jiggins, C.D. (1998). Estimating the mating behavior of a pair of hybridizing *Heliconius* species in the wild. Evolution 52: 503-510.

[rmm60@hermes.cam.ac.uk](mailto:rmm60@hermes.cam.ac.uk)

---

**UGeorgia SREL 12 EvolutionaryBiol**

## 12 GRADUATE POSITIONS AVAILABLE AT THE SAVANNAH RIVER ECOLOGY LABORATORY OF UGA

The University of Georgia's Savannah River Ecology Laboratory (SREL) is recruiting a cohort of 7 M.S. and 5 Ph.D. level graduate students to work on various topics in the fields of radioecology, toxicology, conservation biology, and restoration ecology. Specific topic areas and faculty mentors include: Radionuclide and heavy metal contamination in long-lived reptiles (Dr. Tracey Tuberville - 2 M.S.); Scavenging ecology and contaminant uptake (Dr. Jim Beasley - 1 M.S./Ph.D. and Dr. Gene Rhodes - 1 M.S.); Spatial ecology of vertebrates in relation to radionuclide exposure (Dr. Jim Beasley - 1 Ph.D.); Genomic biomarkers and genotoxicology in wildlife exposed to chronic low dose irradiation and/or metals (Dr. Stacey Lance - 1 Ph.D.); Amphibian ecotoxicology and evolutionary toxicology (Dr. Stacey Lance - 1 M.S.); Metagenomics of bacterial communities exposed to chronic radionuclide contamination (Dr. J Vaun McArthur - 1 Ph.D.); Biogeochemical quantification of tritium in living organismal tissues (Dr. John Seaman - 1 Ph.D.); Biogeochemistry, bioavailability and bioaccumulation of heavy metals in constructed wetlands (Dr. Gary Mills - 1 M.S.); Restoration ecology of invertebrate communities in erosion impacted watersheds (Dr. J Vaun McArthur - 1 M.S.); Soil restoration and erosion mitigation (Dr. John Seaman - 1 M.S.); and Mitigation of invasive species impacts on threatened and endangered species in the Pacific (Dr. Gene Rhodes - 1 Ph.D.).

It is anticipated that students would start their programs of study in the spring or summer of 2013. SREL is located on the Savannah River Site in Aiken, South Carolina, approximately 2.5 hours from the main UGA campus. Students will be directly supervised by SREL faculty and will be appointed through various departments on the main UGA campus depending upon their ability to meet the admission requirements of individual academic units and the departmental affiliation of the SREL faculty member with whom they work. Prospective departments include: The Odum School of Ecology (Rhodes, Lance, McArthur); the Warnell School of Forestry and Natural Resources (Tuberville, Beasley, Mills, Rhodes); and the Department of Crop and Soil Sciences (Seaman).

Graduate Assistantship support for M.S. students (\$21,308.00) and Ph.D. students (\$23,031.00) will be provided to successful applicants on an annual basis. Students on an annual stipend receive tuition waivers, however student fees of approximately \$1,095 per semester, which include the matriculation fee and activity, athletic, health, student facilities, technology

and transportation fees will be assessed.

Students should have a B.S. or M.S. degree in a field closely related to their prospective research topic. We are seeking students with a strong work ethic, excellent verbal and written communication skills, excellent quantitative skills, the ability to work independently and as a productive member of a research team, and the ability to perform work in challenging field conditions or in laboratory environments as required. Student must have a minimum 3.0 GPA and competitive GRE scores. Please see the following links for specific requirements for each school/department:

Savannah River Ecology Laboratory  
<http://www.srel.edu/> Odum School of Ecology  
[http://www.ecology.uga.edu/-admissions.php?Graduate\\_Application\\_Information-3/](http://www.ecology.uga.edu/-admissions.php?Graduate_Application_Information-3/)  
 Warnell School of Forestry and Natural Resources  
<http://www.warnell.uga.edu/grad/prospective-applicants.php> Department of Crop and Soil Sciences  
<http://www.cropsoil.uga.edu/graduate/-admissions.html> Department of Geology  
<http://www.gly.uga.edu/graduate/applications.html> Please contact the individual SREL faculty member with whom you are interested in working at the email address given below by October 15 for full consideration. With your email, please provide a statement of interest, a current C.V., copies of your most recent GRE scores, and a copy of your transcripts. If selected to compete for these assistantships, you will be encouraged to apply to the appropriate UGA department.

Tracey Tuberville (tuberville@srel.edu); Jim Beasley (beasley@srel.edu); Gary Mills (mills@srel.edu); J Vaun McArthur (mcarthur@srel.edu); Stacey Lance (lance@srel.edu); John Seaman (seaman@srel.edu); Gene Rhodes (rhodes@srel.edu).

lancestacey@gmail.com

---

## UGhentUGroningen EvolutionaryDynamics

Vacancy for a joint Phd position at University Ghent and University of Groningen on eco-evolutionary dynamics in a spatial context.

According to classical island biogeography by MacArthur and Wilson (1967), immigration, speciation and extinction determine species diversity. However, diversity is not only an outcome of ecological



and evolutionary processes but will also feedback on them. Thus eco-evolutionary dynamics are expected to determine macroecological and macroevolutionary patterns such as foodweb structure and phylogenetic relatedness.

Within a joint doctoral program between the University of Ghent, Belgium and the University of Groningen, The Netherlands, we have an open PhD vacancy with a focus on these eco-evolutionary dynamics. Your work will combine theoretical (analytical and simulation models) and experimental (mesocosms) approaches. You will be supervised by Prof. dr. R.S. Etienne (Groningen) and Prof. dr. D. Bonte (Ghent).

Description:

- . You will prepare a doctoral thesis in the field of eco-evolutionary dynamics
- . You will conduct this research at the Terrestrial Ecology Unity (Univ. Ghent) and the Community and Conservation Ecology Group (Univ. Groningen)

Profile :

- . You are an enthusiastic and highly motivated student with a strong interest in spatial and evolutionary ecology
- . You are keen to combine experimental and theoretical approaches, to be a member of two dynamic labs
- . You are mobile and willing to travel between the involved research units
- . You have a Master degree in Biology or an equivalent degree in life sciences with a sufficient background in ecology, evolutionary biology and modelling
- . You have excellent study grades

Our offer:

- . We offer a Ph.D. scholarship for two years, that will be extended for two more years after a positive evaluation
- . Starting date is 1 January 2013.

Interested?

- . Send your CV, study results and a motivation letter by email before October 17th 2012 to [Dries.bonte@ugent.be](mailto:Dries.bonte@ugent.be) and [R.S.Etienne@rug.nl](mailto:R.S.Etienne@rug.nl).
- . For more information, contact Prof. dr. D. Bonte (+32 9 264 5213) or Prof. dr. R.S. Etienne (+31 50 363 2230) by phone or use the email addresses above.

Dries Bonte <[Dries.Bonte@ugent.be](mailto:Dries.Bonte@ugent.be)>

---

## UGroningen EvolutionaryBiol

PhD position in Animal Ecology (1,0 fte) University of Groningen

The Animal Ecology group has an opening for a PhD position for a highly motivated field ecologist with evolutionary interests for a four-year PhD project. The ideal candidate is fascinated by evolutionary and ecological questions, is a keen field biologist, independent and creative. Working experience with birds is an advantage. A MSc (or equivalent) in Biology/Ecology is required.

Background Environments change at an unprecedented rate, challenging the adaptive potential of living organisms. Species that cannot adapt to such fast environmental changes will suffer, and may even go extinct. Relatively little is known about adaptation of species to directional environmental changes: How flexible are species and what are their constraints? The advertised PhD position will focus on the possibilities and constraints regarding adaptation to ongoing climate change, using migratory birds as model species.

Research of the Animal Ecology Group of the last decade has shown that a small migratory passerine, the pied flycatcher, has difficulties to adapt to climate change. Flycatchers breed in seasonal forests that are often characterized by a short peak in insect abundance in spring. Reproductive success is high when the chicks grow up during this period of peak abundance. Recent increases in spring temperature have advanced this food peak to a greater extent than the flycatcher breeding time, creating a temporal mismatch between the birds and their food. This insufficient adaptation was shown to lead to population declines in this, and other long-distance migrants. A possible reason why birds have difficulty to adjust is that at their African wintering grounds the birds cannot directly sense advances in spring at their European breeding sites. A recent exciting development is that birds slowly seem to adapt to the new situation. Possibly we witness the first signs of evolutionary changes by which pied flycatchers adapt to climate change.

We are interested in different aspects of adaptation on the species level, but also in possible community consequences of climate change. Possible lines of research are: (1) dispersal of locally maladapted individuals to more northern sites, (2) genetic variation and pheno-

typic plasticity of annual cycles and selection, (3) carry-over effects of wintering locations and migration on reproductive success, (4) community effects of increased mismatches in forest ecosystems.

Within the theme “adaptation to climate change” in the pied flycatcher system we offer the candidate time and space to develop his/her own ideas. After the initial selection, we ask the candidates to come up with a brief research plan on their preferred research line as a starting point to develop their career in ecology.

Research group: The PhD will work in the Animal Ecology research group which is part of the research institute CEES (Center for Ecological and Evolutionary Studies) of Groningen University. Christiaan Both and Joost Tinbergen will supervise the project.

Candidates must have a degree in biology, with specialisation in ecology. We are looking for an enthusiastic researcher with ample experience in field research on birds. Theoretical interest in evolutionary ecological research is a prerequisite.

Preferred starting date is 1 January 2013.

Application: Successful applications include a letter containing your motivation for applying for this position and a description of previous relevant research experience, a full curriculum vitae and the vacancy number. Applications that are incomplete or are otherwise faulty will not be taken into account. Interviews will be held at 9 November. Applications should be submitted through the application form on the website: <http://www.rug.nl/corporate/vacatures/vacaturesRUG> (job . Please send your application before 15 October 2012.

Information about the position can be obtained from: Christiaan Both (++(31)-50-3632235, [c.both@rug.nl](mailto:c.both@rug.nl)), Joost Tinbergen (++(31)-50-3632065, [j.m.tinbergen@rug.nl](mailto:j.m.tinbergen@rug.nl))

Christiaan Both Animal Ecology Group Centre for Ecological and Evolutionary Studies University of Groningen PB Box 11103 9700 CC Groningen The Netherlands

Visiting address: Linnaeusborg, Zernike Campus Nijenborgh 7, 9747 AG Groningen Room: 5172.0542

Tel ++31 (0)50-3632235 <http://www.rug.nl/staff/c.both/index> C Both <[c.both@rug.nl](mailto:c.both@rug.nl)>

---

## UGroningenUZurich HouseflySex

Open PhD position Evolutionary Genetics for 4 years.

PhD position to study the evolution of sex determination in houseflies at the University of Groningen (The Netherlands) in collaboration with the University of Zurich (Switzerland)

Deadline: 1 October 2012

More information on the project and electronic application procedure: <http://www.rug.nl/medewerkers/-Vacatures/vacaturesRUG> For questions please contact:

Prof. Dr. Leo W. Beukeboom Evolutionary Genetics Centre for Ecological and Evolutionary Studies University of Groningen

P.O Box 11103 9700 CC Groningen, The Netherlands  
Phone +31 50 363 8448 (direct) or 2092 (secr.) Fax +31 50 363 2412 Email [l.w.beukeboom@rug.nl](mailto:l.w.beukeboom@rug.nl)  
<http://www.rug.nl/fmns-research/evolutionary-genetics/index> Visiting address: Nijenborgh 7 Building 5172, room 0678 NL-9747 AG Groningen <http://www.rug.nl/staff/location/5172>  
L.W.Beukeboom@rug.nl

---

## ULausanne AlternativePhenotypesAnts

A fully-funded PhD position is available at the Department of Ecology and Evolution at the University of Lausanne, to work on maternal and genetic effects on queen and worker determination in ants.

Reproductive division of labor between queens and workers is at the root of the tremendous ecological success of social insects, yet the developmental pathways underlying these alternative phenotypes and the trajectories that led to their evolution remain speculative. Several recent studies revealed that maternal and/or genetic effects have an important role in queen and worker caste determination in some species. The aim of this PhD project is to develop insights into the mechanisms mediating these effects, taking advantage of next generation sequencing tools, molecular genetics and the recently published ant genomes.

The project will be hosted by the Keller lab (<http://www.unil.ch/dee/page6763.html>), and co-advised by Laurent Keller and Tanja Schwander. Candidates should have a master degree in an appropriate discipline and a keen interest in evolutionary biology. The position requires an independent, highly motivated, and

scientifically curious individual with strong interests in the above described central topic. All our projects are highly integrative and require willingness to closely collaborate with researchers of different backgrounds.

The Department of Ecology and Evolution in Lausanne provides a stimulating research environment, with an active program of seminars and discussion groups (in English); see <http://www.unil.ch/dee/>. Lausanne is located in the French part of Switzerland, on the shore of Lake Geneva, and is an attractive city with a high quality of life. The city is surrounded by beautiful mountain environments- an excellent area for outdoor activities. See <http://www.lausanne.ch/> Application requirements: Informal enquiries and applications can be sent to Tanja Schwander ([tanja.schwander@gmail.com](mailto:tanja.schwander@gmail.com)). Formal applications should include: a 1-2 page cover letter (in English) indicating research interests, your CV, and two letters of reference (please include everything in a single pdf file).

<http://www.tanjaschwander.com>  
[tanja.schwander@gmail.com](mailto:tanja.schwander@gmail.com)

---

### UMissouri AmphibianGeneticDynamics

PhD Position: Genetic Assessment of Amphibian Source-Sink Dynamics (University of Missouri)

Salary: 24K/year + tuition waiver + insurance

#### DESCRIPTION

The focus of this research project is on assessing the population and landscape genetics of ringed and spotted salamanders as they relate to source-sink dynamics at Fort Leonard Wood, MO. To date, we have developed and optimized site-specific microsatellites for each species. Research responsibilities will include training and oversight of undergraduates in the lab, DNA extraction, PCR, analysis of microsatellite data, and spatial analysis of results using GIS.

Fort Leonard Wood is a 25,000 hectare military training facility with >400 constructed wetlands that are inhabited by >12 amphibian species. This research is part of an ongoing project funded by SERDP, which involves intensive yearly ecological sampling of a 7,000 hectare area containing ~193 ponds for species abundance of egg, larval, and metamorph stages of both salamanders.

#### QUALIFICATIONS

Applicants should have 3.5 GPA and competitive GRE scores, with emphasis being placed on the quantitative reasoning section. Students should have strong writing and analytical skills, and experience with one or all of the following: GIS, statistical modeling, and population genetics. The selected student must be able to start no later than August 2013.

This position provides a stipend of \$24,000/year plus tuition waiver and health insurance. Students will be guaranteed funding for 5 years on a TA, with the opportunity for RA support.

Please send a CV, copy of transcripts, GRE scores, and publications to Ray Semlitsch at [SemlitschR@missouri.edu](mailto:SemlitschR@missouri.edu).

[bhoq6b@mail.missouri.edu](mailto:bhoq6b@mail.missouri.edu)

---

### UQueensland EvolutionaryGenetics

The newly established evolutionary genetics group of Jan Engelstädter at The University of Queensland (Brisbane, Australia) invites applications for PhD positions. We are interested in the evolutionary biology of sexual processes, parasitism, and the various interplays between these two phenomena. Our main approach is to develop mathematical models and conduct computer simulations, but projects involving field and lab work are also possible. Potential PhD topics include, but are not limited to the following:

- Evolution of antibiotic resistance and recombination in bacteria
- Wolbachia and other reproductive parasites of arthropods
- Sex chromosome evolution
- Host-parasite co-evolution

We are looking for motivated students with a strong background in either evolutionary biology, mathematical modeling, or molecular microbiology. Candidates with a non-biology degree (mathematics, physics, computer science) are especially encouraged to apply, but are expected to have some basic knowledge of biology. Good communication skills, scientific curiosity and enthusiasm for evolution are essential.

Funding can be obtained through a new international PhD scholarship scheme for overseas students interested in undertaking PhDs in the School of Biological Sciences at the University of Queensland. Applicants will be considered under a new competitive, but school-

specific, scheme. For more information about this scholarship scheme as well as formal requirements for PhD students and The School of Biological Sciences at UQ, see below.

Interested candidates should send a letter describing their motivation and research interests, CV, copy of degrees, and contact information for two academic references to: [j.engelstaedter@uq.edu.au](mailto:j.engelstaedter@uq.edu.au).

Dr. Jan Engelstädter Lecturer School of Biological Sciences The University of Queensland Brisbane QLD 4072 Australia

phone: +61 7 336 57959 fax: +61 7 336 51655 email: [j.engelstaedter@uq.edu.au](mailto:j.engelstaedter@uq.edu.au) website: [www.biology.uq.edu.au/staff/jan-engelstadter](http://www.biology.uq.edu.au/staff/jan-engelstadter) International PhD Scholarships in Biology at UQ

The School of Biological Sciences is a large and research intensive unit at the University of Queensland, one of Australia's most prestigious Universities. The School has broad expertise across the disciplines of ecology and evolution, molecular and quantitative genetics, developmental biology, behaviour, plant and animal physiology, and conservation biology. Our research programs span all scales of biological organisation, from molecules and cells, to organisms, populations, species and communities, and take advantage of study animal and plant systems in a large variety of habitats (see <http://www.biology.uq.edu.au/> for detailed information on our research programs). The School is very pleased to announce a new initiative that has made available a number of PhD scholarships for talented International students who enroll in our PhD program in 2012.

Qualifications Applicants should possess a Bachelor's degree with Honours, Master of Science, MPhil or equivalent, and must be accepted into the PhD program at the University of Queensland. The UQ Graduate School website provides further information on the entry requirements for admission to the PhD program (<http://www.uq.edu.au/graduate-school/our-research-degrees>).

Remuneration Living stipend (scholarship) of \$23,728 per annum for 3 years which is tax free, with the possibility of a 6 month extension. International students normally pay international student fees of \$29,600 per year, however individuals successful in gaining one of these scholarships will also be granted a full tuition-fee waiver.

The Application Process Interested students should identify potential supervisors within their research area of interest (<http://www.biology.uq.edu.au/academic-staff>) and contact them to discuss potential projects.

Strong candidates will be invited to apply for entry to the PhD program, and if accepted into the program will be considered for the School of Biological Sciences International Scholarships on a competitive basis.

Enquiries For further information on the application process please contact the Postgraduate Administration Officer Gail Walter [gj.walter@uq.edu.au](mailto:gj.walter@uq.edu.au)

[j.engelstaedter@uq.edu.au](mailto:j.engelstaedter@uq.edu.au)

---

## USeville EvolutionaryBiology

Dear colleagues,

Please, could you distribute the notice below about a MSc degree on Evolutionary Biology at the University of Seville, Spain? Although courses are mostly in Spanish perhaps it is useful for many students who are able to use it. We are just opening the last call to join. Sorry for not offering it in English, we are considering this possibility for the near future Thanks Juan Arroyo

NOTICIA IMPORTANTE SOBRE EL MÁSTER UNIVERSITARIO DE BIOLOGÍA EVOLUTIVA DE LA UNIVERSIDAD DE SEVILLA (2012-2013)

Máster Universitario en Biología Evolutiva

ESTÁ A PUNTO DE ABRIRSE LA INSCRIPCIÓN EN TERCERA FASE

Aunque el precio de las matrículas de muchos estudios se ha elevado considerablemente, no es el caso de los másteres habilitantes ni de los enfocados a la investigación EN ESTA UNIVERSIDAD.

Las tasas de matrícula del Máster Universitario en Biología Evolutiva no ha superado la subida del IPC y es similar a la del año pasado.

MAS INFORMACIÓN EN:

<http://www.us.es/estudios/master/preinscripcion-2012-2013> <http://master.us.es/evomaster/index.html>  
 – Dr. Juan Arroyo Departamento de Biología Vegetal y Ecología (Plant Biology and Ecology) Universidad de Sevilla, Spain tel. +34 954 557058 fax +34 954 557059 e-mail: [arroyo@us.es](mailto:arroyo@us.es) EVOCA research group: <http://grupo.us.es/grnm210/> Master on Evolutionary Biology: <http://www.master.us.es/evomaster/> Some publications: <http://us.academia.edu/JuanArroyo>  
 Juan Arroyo <[arroyo@us.es](mailto:arroyo@us.es)>

---

## USussex ULund EvolutionaryGenetics

PHD POSITION University of SUSSEX (UK) and LUND University (Sweden)

EVOLUTIONARY GENETICS

DEADLINE FOR APPLICATIONS: 15 OCTOBER 2012

The project will investigate the role of dominance variance and epistasis in sex-chromosome evolution within the conceptual framework of sexual antagonism. It will primarily involve both short-term laboratory assays and long-term experimental evolution methods using the fruit fly *Drosophila melanogaster*. The PhD position is available as a part of a Swedish Research Council grant in collaboration between researchers at the University of Sussex (UK) and Lund University (Sweden). Funding is from the Swedish Research Council (Vetenskapsrådet) and the School of Life Sciences, University of Sussex.

The position would be ideal for a highly motivated student interested in the evolutionary genetics of sex-chromosomes and/or sexual antagonism, who wishes to be involved in an internationally collaborative project. There will be many opportunities for the student to develop their skills and experience, and the student is expected to play an important role in developing the project in directions that they find most interesting. The candidate should have excellent organisational and communication skills as well as be willing to travel between, and spend extended periods of time at, the two host universities. Experience of working with *Drosophila* is not essential, but the candidate should have a keen interest in evolutionary biology. The candidate should have a Bachelor's or Master's degree in a biological or related subject.

The starting date is 1st January 2013.

The School of Life Sciences at the University of Sussex includes a range of experimentalists and theoreticians working on various aspects of molecular and whole organism evolutionary biology. There are good transport links between the Falmer campus and the lively town of Brighton and London.

The University of Lund is one of the world's top 50 universities within the life sciences, and research at the

Biology Department covers a wide range of topics, including Molecular Biology, Biodiversity research, and Evolutionary Ecology. Lund has good communications with Malmö (15 min. by train) and Copenhagen (40 min by train), and has been voted the best place to live in Sweden.

Informal enquiries with a CV are welcome and should be sent to Ted Morrow or Jessica Abbott: ted.morrow@sussex.ac.uk or jessica.abbott@biol.lu.se

Current webpages of supervisors: <http://www.sussex.ac.uk/lifesci/morrowlab/index> <http://jessicakabbott.com>

To be considered for a place you will need to complete our online application for, which can be found at <http://www.sussex.ac.uk/study/pg/applying/> Please include a brief statement of interest, CV, transcripts and details of two academic references. On the application please mention Ted Morrow as the suggested supervisor.

Some relevant papers: - Innocenti & Morrow 2010. The sexually antagonistic genes of *Drosophila melanogaster*. *PLoS Biology* 8: e1000335. - Morrow, Stewart & Rice 2008. Assessing the extent of genome-wide intralocus sexual conflict via experimentally enforced gender-limited selection. *Journal of Evolutionary Biology* 21(4):1046-1054. - Abbott & Morrow 2011. Obtaining snapshots of genetic variation using hemiclinal analysis. *Trends in Ecology and Evolution* 26:359-368. - Abbott, Bedhomme, & Chippindale 2010 Sexual conflict in wing size and shape in *Drosophila melanogaster*. *Journal of Evolutionary Biology* 23(9):1989-1997.

Edward H. Morrow School of Life Sciences University of Sussex John Maynard Smith Building Falmer Brighton, BN1 9QG UNITED KINGDOM

Email: ted.morrow@sussex.ac.uk Tel: +44 (0)1273 87 2862 Mobile: +44 (0)783 772 7714 ResearcherID: <http://www.researcherid.com/rid/C-2358-2011> Ted Morrow <Ted.Morrow@sussex.ac.uk>

---

## UWyoming PlantConservation

Ph.D. assistantship available for the study of ecological genetic and landscape approaches to plant community restoration at the University of Wyoming. Research will investigate genotype-environment interactions relevant for plant establishment at restoration sites in high elevation ecosystems. Prospective students with a background in natural resources, ecology, and/or pop-

ulation genetics are encouraged to apply.

Qualifications should include a strong academic record and interest in ecological restoration. Evidence of excellent written and analytical skills, as well as enthusiasm for field and laboratory research will be a plus.

The assistantship includes a generous annual stipend, tuition and fees, health insurance and research support for three years. To apply, send application materials, including a cover letter and copies of transcripts, GRE scores, resume and contact information for 3 references to Dr. Kristina Hufford: khufford@uwyo.edu

Review of applications will begin immediately and continue until the position is filled. Please contact K. Hufford with any questions.

Ecosystem Science and Management University of Wyoming Dept. 3354 1000 E. University Avenue Laramie, WY 82071 USA

Kristina Hufford <khufford@uwyo.edu>

---

## UZurich 2 BrainEvolution

Two PhD positions - University of Zurich

Energetic aspects of brain size evolution

Two three-year PhD positions are available at the Anthropological Institute and Museum (University of Zürich) to work on a broad comparative study of the energetic aspects of brain size evolution. The project "Energetic aspects of brain size evolution: Cognitive vs. physiological strategies for survival" is funded by the Swiss National Science Foundation. We have shown recently that, to allow an increase in brain size, either total energy metabolism must be increased, or the organism reduces energy allocation to other functions such as production or locomotion (but not digestion). In the current project, we will investigate links between ecology, lifestyle, and brain size in a broad sample of mammals. Ultimately, the results of this project will enhance our understanding of the hominin evolutionary history.

One PhD project will focus on behavioral flexibility in dealing with periods of food scarcity (cognitive buffering) in mammals (i.e. by stabilizing energy input). The other PhD project will focus on physiological adaptations to buffer energy shortages during lean or cold periods, (i.e. by reducing energy expenditure). You will collect data in museums and zoos, compile data

from the literature, and test various predictions using "phylogenetically informed" statistical methods.

You will be working in an international, multidisciplinary team of primatologists and paleoanthropologists at one of Europe's leading institutions in this field. Salary is according to the regulations of the Swiss National Science Foundation.

Applicants should excel in both practical and academic skills, have a Master's degree in biology (e.g. zoology, physical anthropology, evolutionary or computational biology), and be fluent in English. Advanced skills in statistical data analysis and, for the second project, previous experience with dissections are required.

Candidates should send a letter of application, a curriculum vitae, a transcript of study records, contact information for two academic referees, and a half-page summary of the Master's thesis (all combined to a single PDF) to Karin Isler at kisler@aim.uzh.ch no later than October 23, 2012. Start of the project is planned for January 1, 2013.

For further information, please contact Karin Isler (kisler@aim.uzh.ch).

Dr. Karin Isler Anthropological Institute and Museum University of Zürich-Irchel Winterthurerstrasse 190 CH-8057 Zürich Switzerland

E-mail: kisler@aim.uzh.ch Phone: 0041 (0)44 635 54 01 Fax: 0041 (0)44 635 68 04

Karin Isler <kisler@aim.uzh.ch>

---

## UZurich AvianFamilyEvolution

MSc student position in Biology, University of Zurich, Switzerland.

One MSc position is available in the lab of Michael Griesser to study the evolution of family living in birds.

We seek an enthusiastic graduate student with a strong interest in evolutionary biology and behavioural ecology. The candidate should have previous experience from experimental fieldwork, preferably with birds. The selected candidate is expected to join us in the field in October 2012.

The candidate, with help of field experiments, will investigate family dynamics in black wheatears (*Oenanthe leucura*) in southern Spain. In this species, offspring of second broods remain with their parents until

the onset of the breeding season the year thereafter. Field experiments in other species have suggested that offspring remain with their parents due to nepotistic benefits which arise from staying with the parents, and thus offspring remain only as long as their family is intact. We will use field experiments to investigate the role of changes in family dynamics for the decision of offspring to remain in their natal group.

The project will require fieldwork during autumn/winter 2012 and 2013. The candidate is expected to perform the field work (after initial help) independently. Thus, previous experience with avian research in the field, behavioural observations, and bird handling are valuable. A drivers license is required for this project. Basic knowledge of Spanish is an advantage. The candidate will be supervised by Gretchen Wagner and Michael Griesser.

Our research group is part of the Anthropological Institute at the University of Zurich ([www.aim.uzh.ch/-index.html](http://www.aim.uzh.ch/-index.html)), where several research groups work on the evolution of social dynamics and cooperative breeding in primates. The working language at the institute is English.

MSc studies at the University of Zurich take 2 years, and cover both degree project work and courses. For details see [www.mnf.uzh.ch/en/studies/students/-courses-of-study.html#c887](http://www.mnf.uzh.ch/en/studies/students/-courses-of-study.html#c887). A BSc in Biology is mandatory for enrollment.

Please apply by sending your Curriculum Vitae, contact information of at least two references, and a cover letter with statement of research interests to [michael.griesser@uzh.ch](mailto:michael.griesser@uzh.ch) and [gretchenwagner3@gmail.com](mailto:gretchenwagner3@gmail.com).

Michael Griesser <[Michael.Griesser@slu.se](mailto:Michael.Griesser@slu.se)>

---

## UZurich HIV evolution

Graduate position: Molecular Epidemiology and Phylodynamics of HIV

We are looking for a highly motivated PhD-Student on a project at the interface of bioinformatics, evolution, and the epidemiology of HIV. The aim is to combine molecular epidemiology approaches with clinical data and mathematical models in order to investigate the transmission of HIV and its coinfections. The PhD student will carry out his projects in the context of the Swiss HIV Cohort Study (SHCS) Drug Resis-

tance Database. The SHCS is the ideal setting for these projects as it is highly representative for the HIV population in Switzerland and combines sequence and clinical data of extraordinary quality. The student will work on a range of specified research projects, but will be also highly encouraged and expected to develop and investigate his own research questions.

The ideal applicant has strong quantitative/computational skills and a strong interest in infectious-disease epidemiology. The applicant should hold a Masters degree in a discipline relevant to the project (e.g. Epidemiology, Statistics, Mathematics, Biomedical Sciences, Physics, Computer Science).

The research will be conducted at the Division of Infectious Diseases at the University Hospital of Zurich (University of Zurich; head of research: Huldrych Günthard). The Division of Infectious Diseases provides a highly interdisciplinary and translational research environment with links both to clinical practice and basic science. Moreover, we are strongly interconnected with a variety of other research institutes in Zurich and beyond. In particular, we maintain strong collaborations with the Institute of Medical Virology (Alexandra Trkola) at the University of Zurich, and the Institutes of Theoretical Biology (Sebastian Bonhoeffer) and Computational Biology (Niko Beerenwinkel) at the ETH Zurich.

Applicants should send a cover letter, a detailed CV, and contact information for two or three academic references to: [roger.kouyos@uzh.ch](mailto:roger.kouyos@uzh.ch).

Roger Kouyos, PhD Division of Infectious Diseases and Hospital Epidemiology University Hospital Zurich University of Zurich Rämistr. 100 CH-8091 Zürich Switzerland

ph +1 44 255 36 10

[roger.kouyos@uzh.ch](mailto:roger.kouyos@uzh.ch)

---

## UZurich HostParasiteEvolGen

PhD Position in Evolutionary Genetics of Wildlife Disease University of Zurich, Switzerland

A 3-year PhD position is available in Barbara Tschirren's group at the University of Zurich, Switzerland, to work on the genetic basis of *Borrelia* resistance in natural rodent populations.

Lyme borreliosis is the most important zoonotic dis-

ease in Europe and North America, having major debilitating effects in humans. It is caused by the spirochete *Borrelia* sp., which is transmitted by ticks of the *Ixodes ricinus* complex to animal hosts, in particular small rodents. Natural hosts are commonly and heavily infested with ticks throughout their life, and thus encounter *Borrelia* on a regular basis. Yet, only about 20-30% of animals become *Borrelia* infected, demonstrating that natural hosts have evolved powerful defence mechanisms, which prevent and / or control *Borrelia* infection. To date, this variation in *Borrelia* resistance remains poorly understood, which hampers further progress in the management of this emerging public health risk, as well as our understanding of coevolutionary processes in host-*Borrelia* systems.

In this PhD project, as part of the University Research Priority Program 'Evolution in Action', we will combine ecological research in natural rodent populations with molecular work in the laboratory to obtain comprehensive insights into the genetic and regulatory basis of variation in resistance to *Borrelia* in the wild.

Sequencing of candidate regions in animals from populations, which differ in *Borrelia* prevalence (along altitudinal gradients in the Swiss Alps) will allow us to investigate the role of parasites in population differentiation. Due to climate change, *Borrelia* now occurs in Switzerland at altitudes that were previously *Borrelia*-free. This provides a unique opportunity to investigate changes in the genetic composition of host populations that have no coevolutionary history with *Borrelia*, providing a powerful model to study rapid evolutionary changes in response to emerging pathogens.

The ideal candidate for this project is fascinated by evolutionary questions, highly motivated, independent and creative, and has a strong interest to combine work in the field with molecular analyses in the lab. She / he has a background in evolutionary ecology or molecular ecology (or a related field) and some lab experience. The project requires substantial amount of fieldwork under sometimes difficult conditions (terrain, weather) for several weeks in the Swiss Alps. A driver's license is required.

The successful applicant will be based at the Institute of Evolutionary Biology and Environmental Studies of the University of Zurich, providing ample opportunities for collaborations and interactions with researchers working in related and complementary fields (<http://www.ieu.uzh.ch>). The research groups are very international and the working language is English.

Applications should include 1) a cover letter outlining your motivation to work on this project as well as your relevant experience, 2) a detailed curriculum vitae, 3)

copies of academic qualifications, 4) the contact details of two academic referees, and 5) a 1/2-page description of your MSc project. Send the above as a single .pdf file to [barbara.tschirren@ieu.uzh.ch](mailto:barbara.tschirren@ieu.uzh.ch)

Review of applications will start on October 15 2012, but candidates will be considered until the position is filled. The ideal starting date is early 2013. For more information, feel free to contact me!

Barbara Tschirren SNF Assistant professor Institute of Evolutionary Biology and Environmental Studies University of Zurich Winterthurerstrasse 190 8057 Zurich Switzerland

Email: [barbara.tschirren@ieu.uzh.ch](mailto:barbara.tschirren@ieu.uzh.ch) <http://www.ieu.uzh.ch/staff/professors/tschirren.html>  
[barbara.tschirren@ieu.uzh.ch](mailto:barbara.tschirren@ieu.uzh.ch)

---

## UppsalaU PlantDNABarcoding

PhD-student position in Biology with specialization in Systematics at the Department of Organismal Biology. Application no later than 2012-11-01. UFV 2012/2245

Starting date: As agreed upon.

The overall objective of the PhD project is to improve quality in identification of traded plant wildlife using molecular barcoding. The project aims to develop tools and reference libraries for accurate species identification of traded plant material such as roots, powders and mixtures, using both standard and experimental DNA barcoding markers; and to use next generation sequencing for the identification of individual ingredients in processed products such as powders and mixtures. The project will look specifically at the regional and international trade of wild harvested medicinal plants and orchids in/and from Tanzania.

In addition to the objectives above the project aims to conduct quantitative investigations of wild-harvested traditional herbal medicines to identify diversity and volumes of medicinal plants traded in Tanzania. Surveys to monitor the chain of commercialization will give insights into the processing, collection, identification and availability of plant species traded.

The project includes fieldwork in Tanzania, studying herbarium collections in Leiden and St. Louis, and molecular lab work in Uppsala and Leiden, as well as phylogenetic analyses and taxonomical studies. The student is expected to follow appropriate courses in



systematics theory and practice, including molecular barcoding, next generation sequencing, phylogenetics, bioinformatics, statistics, taxonomy, ethnobotany, participate in the research school in biosystematics (For-Bio), and have no moral objections to carry out experiments with zebrafish embryo's.

The PhD student will be supervised by a team of researchers on a collaborative TASENE funded project: Hugo de Boer, Uppsala University, Naturalis Biodiversity Center, NHM-Oslo; Sandra Baldauf, Uppsala University; Barbara Gravendeel, Naturalis Biodiversity Center, University of Applied Sciences Leiden; Tinde van Anandel, Naturalis Biodiversity Center; and Joseph Otieno, ITM-MUHAS Dar es Salaam.

The applicant should have a Master of Science degree in Biology or similar qualification. A strong academic record and training in molecular barcoding, quantitative ethnobotany, systematics, or molecular sequence analyses is preferable. The project will require an independent and dedicated person, proficient in both written and spoken English. She/he should be able to work well as part of a team but also independently; be flexible and willing to travel for field and labwork; and have excellent communication and reporting skills. In filling this position the university aims to recruit the person who, in the combined evaluation of competence, skills and documented qualifications, is judged most suitable to carry out and develop the work-in-hand and to contribute to a positive development of the department.

The PhD-student will primarily devote the time to his/her own research studies. The PhD student ship consist of a 1-year study grant followed by a 3-year appointment. Furthermore other departmental work, such as teaching or administration, can be included in addition to the appointment (max 20 %). Salary placement is in accordance with local guidelines at UppsalaUniversity. The applicant must be eligible for PhD studies at UppsalaUniversity. Information about research education can be found at the web site of the Faculty of Science and Technology, <http://www.teknat.uu.se/Doktorand/>. Regulations for Swedish PhD-students can be found in Högskoleförordningen 5 kap.Å§Å§1-7 and in the regulations and guidelines of Uppsala University <http://regler.uu.se/>. The application should be written in English and should include a letter of intent, curriculum vitae, two support letters from referees, addresses and phone numbers of two academic reference persons, copies of the diploma, and the master thesis. The letter of intent (no more than two pages) should describe yourself, your scientific/educational background, and your interest in and competence for the position.

More information about the position can be obtained from Hugo de Boer [hugo.deboer@ebc.uu.se](mailto:hugo.deboer@ebc.uu.se), tel: +46 18 471 29 32, +46 704 666 139 or Sandra Baldauf [Sandra.Baldauf@ebc.uu.se](mailto:Sandra.Baldauf@ebc.uu.se), tel: 018-471 64 52. Union representatives are: Anders Grundström, Saco-rÅdet, tel: 018-471 53 80, Carin Söderhäll, TCO/ST, tel: 018-471 19 96, and Stefan Djurström, Seko, tel: 018-471 33 15.

You are welcome to submit you application no later than November 1st, 2012, UFV-PA 2012/2245. Use the link below to access the application form.

<http://www.uu.se/jobbdoktorander/-annonsering?tarContentId=206432> Dr. Hugo J. de Boer Dept. of Systematic Biology

— / —

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

---

## Vienna EvolutionMouseCommunication

PhD position: Chemosensory communication in wild house mice Dustin J. Penn, Konrad Lorenz Institute of Ethology Vienna, Austria

Project: This 3-year project will investigate the proximate mechanisms and evolutionary functions of complex, chemical signals in wild house mice. The project and position are funded by the Austrian National Science Fund (FWF).

Ideal candidate: We are looking for an enthusiastic PhD candidate with background in evolutionary/behavioral biology with strong interests in sexual selection or communication. The ideal candidate would have experience with mice (or other small mammals), chemistry (GC-MS or protein chemistry), and the ability to work independently, as well as part of a team. Excellent writing and communication skills in English are necessary. Experience with molecular genetics, experimental design and/or statistics are desirable, but not essential. A BSc or MSc (or equivalent) in Biology is required.

Location: Our institute is located in the Vienna Woods, it is international and operates in English and German. Vienna is a very attractive international city (English is widely spoken), and it is generally ranked as one of top cities in the world to live. There are many

cultural activities, outstanding public transportation, green spaces, and it is easy to leave the city for travel and outdoor activities, such as hiking, climbing and skiing.

To apply send: 1. 1-page cover letter outlining motivations, research interests and relevant experience; 2. CV with list of publications (if any); 3. copies of transcripts with academic qualifications; 4. contact information of 2 academic references; and 5. short abstract describing your previous research experience. Send enquiries and applications to: Dustin J. Penn (dustin.penn@vetmeduni.ac.at) Konrad Lorenz Institute of Ethology Department of Integrative Biology

and Evolution University of Veterinary Medicine, Vienna, Austria <http://www.vetmeduni.ac.at/klivv> Application deadline: 30 September 2012 Starting date is flexible, but preferably before 1 November 2012.

Thank you, Renate Hengsberger

Konrad Lorenz Institute of Ethology Department of Integrative Biology and Evolution University of Veterinary Medicine, Vienna

Savoyenstrasse 1a, A-1160 Vienna T +43 1 489 09 15 - 843 F +43 1 489 09 15 - 801 e-Mail: [renate.hengsberger@vetmeduni.ac.at](mailto:renate.hengsberger@vetmeduni.ac.at) [www.vetmeduni.ac.at/klivv](http://www.vetmeduni.ac.at/klivv) Hengsberger Renate <Renate.Hengsberger@vetmeduni.ac.at>

---

## Jobs

AlfredWegenerInst GenomicsBioinformatics	35	MPI Leipzig EvolutionaryStatistics	50
ArizonaState BiodiversityInformatician	36	MichiganTechU ChairEvolBiol	51
ArizonaStateU BiodiversityInformatician	36	NorthCarolinaMuseumNatSci Director	52
BarnardC ColumbiaU EvolBiol	37	OklahomaStateU EvolutionaryEcol	52
BrighamYoungU Bioinformatics	38	Paris HumanPopGenetics	52
BrownUniversity OpenRank PlantEvolutionaryBiologySearch	38	ProvidenceCollege EvolutionaryBiology	53
CCharleston MicrobialEvolution	39	QueensU MathematicalBiology	53
CaliforniaStateU LongBeach CurationTechnician	39	QuestUCanada EvolutionaryBiol	54
ColoradoStateU ChairBiol	40	SaudiArabia Bioinformatics	54
ConcordiaU EvolutionaryEcol	41	Smithsonian 2 MolGenet LabTechs	54
DarmouthC EvolutionaryPhysiology	41	StonyBrookU HumanEvolutionaryBiol	55
DenverBotanicGardens GeneticsLabTech	42	UBritishColumbia ResAssist Bioinformatics	55
EastCarolinaU EvolutionaryPlantBiochemist	42	UCaliforniaBerkely EvolutionInfectiousDisease	56
EmoryU EvolutionaryGenetics	43	UCaliforniaSanFrancisco LifeHistoryTheory	57
EmoryU EvolutionaryGenetics 2	43	UCambridge ResAssoc ViralPhyldynamics	57
GeorgetownU PathogenEvolution	44	UConnecticut Storrs EvolutionaryMicrobiology	58
GeorgiaTech 2 EvolutionaryEcol	45	UGeorgia ResTech	58
IBED UAmsterdam PlantEvolution	45	UHawaii EvolutionaryBiol	59
InstBotany CzechRepublic PopGenetics	46	UIllinois HostParasiteInteractions	60
IowaStateU BiologicalNetworks	46	UKansas SystematicIchthyology	60
IowaStateU PlantEvolutionaryGenomics	47	ULouisianaLafayette LabTech CoralPopGenet	61
KFBG China BotanyConservation	48	UMaryland DirectorAppalachianLab	61
Karlsruhe ComputationalBiology	49	UMaryland Lecturer Evolution	62
Kiel MarineGenomics Bioinformatics	49	UMassAmherst ComputationalGenomics	62
KielU MaxPlanckInst EnvironmentalGenomics	50	UMassAmherst PlantEvoDevo	63
Lancaster PA EvolBiol OneYearVisiting	50	UMissouri EvolutionaryBiol	64
		UNebraska EvolutionaryBiol	64

UNevada Reno GenomeBiology .....	65	UWisconsin EvoDevo ComparativeGenomics .....	70
UNewMexico LabTech EvolutionInteractions .....	65	UWisconsinMilwaukee Bioinformatics .....	70
UNorthCarolinaWilmington FivePositions .....	66	UWisconsin Madison MolecularEvolution .....	71
UNottingham LabTech SticklebackEvolution .....	66	UYork ResTech AphidAdaptation .....	71
UPuertoRico PlantSystematics .....	67	UZurich ResAssist PopulationBiology .....	71
URochester EvolutionaryBiology .....	68	UdelosAndes EvoDevo .....	72
USouthernCalifornia PrimateEvolutionaryGenetics	68	ValdostaStateU US PhylogeneticsMacroevolution ..	73
UStAndrews ResTech EvolutionSexAdaptation ....	68	Vienna PopGenetics GroupLeader .....	73
UTorontoScarborough ConservationBiol .....	69		

---

## Alfred Wegener Inst Genomics Bioinformatics

The Alfred Wegener Institute for Polar and Marine Research (AWI), division of \*‘‘Biosciences’’\*, sections ‘‘Integrative Ecophysiology’’ & ‘‘Functional Ecology’’, is seeking to appoint within the framework of the BMBF funded ‘Verbundprojekt’ BIOACID phase II, consortium 4 a

\*Scientist (Postdoc) (f/m) (with focus on transcriptomics/genomics /bioinformatics)\*

\*Description:\* Embedded within the framework of BIOACID II (Biological Impacts of Ocean ACIDification, [www.bioacid.de](http://www.bioacid.de)), consortium 4 (‘Effects of ocean acidification in a warming climate on species interactions at distribution boundaries: mechanisms and consequences at ecosystem level’) will investigate how the combined effects of ocean acidification and warming will affect interaction of different life stages of the competing fish species *Gadus morhua* and *Boreogadus saida* and their prey. Several intertwined work packages that rely on joint acclimation experiments will allow a thorough analysis of shifting species interactions and their implications at ecosystem and socioeconomic levels by an integrative approach across levels of biological organisation, from the genome to the ecosystem. We seek a candidate for work package 4.3 ‘Comparative genomics: Linking population structure, transcriptomic responsiveness and species vulnerability to abiotic factors’. The work will include:

- Development of a gene model for *Boreogadus saida* based on next- generation sequencing and the published genome from *Gadus morhua* - In-depth expression analyses (transcriptomics) in both species (and different life stages) under defined experimental conditions - Characterisation of the population structure and its adaptive significance in both species in relation to functional adaptive traits - Advanced bioinformatics and further

development of data processing and analyses

\*Requirements: \*PhD degree with focus on molecular biology/genetics/bioinformatics. The candidate should have proven experience in working with transcriptomic and genomic data and in-depth expression analyses (RNA-Seq; micro arrays, high-productive Real-time PCR) including database management, annotation tools and advanced statistics using ‘R. Experience in population genetics and a substantial education in genetics, respectively, would be highly advantageous. Knowledge in assembly of genomic /transcriptomic data is desirable. Questions regarding the project should be directed to Dr. Magnus Lucassen ([Magnus.Lucassen\(at\)awi.de](mailto:Magnus.Lucassen(at)awi.de)), Dr. Stephan Frickenhaus ([Stephan.Frickenhaus\(at\)awi.de](mailto:Stephan.Frickenhaus(at)awi.de)) or Dr. Christoph Held ([Christoph.Held\(at\)awi.de](mailto:Christoph.Held(at)awi.de)).

The position is limited to 2 years, the salary will be in accordance with the German Tarifvertrag für den öffentlichen Dienst (TVöD Bund): salary group E13. The successful candidate will be encouraged to develop his/her own scientific career based on the project by acquiring further funding., The position will be filled after September 1st, 2012 and as soon as a suitable candidate has been found.

The AWI aims to increase the number of female employees within the scientific staff and especially invites female scientists to apply for the position. Handicapped applicants with comparable qualifications receive preferential status. Please see the notification on our homepage under [job\\_offers/jobs](#). ?AWI supports balanced work-life career development via a variety of schemes.

To apply for the position, please cite the code \*80/G/Bio\* and send your application by \*September 14th, 2012\*, to: \*Alfred Wegener Institute for Polar and Marine Research, Personnel Department, P.O. Box 12 01 61, 27515 Bremerhaven, Germany\*

Although the term ‘‘evolutionary biologists’’ is not explicit used in the text, the job should be of great interest for people focussing on evolutionary biology.

Best regards,

Magnus

Magnus Lucassen <Magnus.lucassen@awi.de>

---

## ArizonaState BiodiversityInformatician

Biodiversity Informatician, School of Life Sciences, Arizona State University (position announcement)

The School of Life Sciences at Arizona State University invites applications for a Biodiversity Informatician. This is an academic, non-tenure track faculty research associate appointment.

Arizona State University is a dynamic, progressive university dedicated to interdisciplinary collaborations, to rethinking university education, and to integrating excellence in both research and teaching. The School of Life Sciences (SOLS) at Arizona State University's Tempe campus is committed to strengthening its impact in the fields of biodiversity informatics research and virtual collections management. SOLS maintains organismal collections totaling more than 1.5 million preserved specimens, and has played an instrumental role in creating the Southwest Environmental Information Network (SEINet) which serves more than 2 million records and 100,000 images on-line.

The successful candidate will work in close collaboration with SOLS curators, collection managers, and affiliated researchers and students to advise, develop, and implement database-driven web applications aimed at the electronic dissemination of biological specimen and observation records. Focal areas include the future development of SEINet and its underlying software platform Symbiota, amalgamation and synthesis of all SOLS virtual collections into a unified web portal, participation in novel biodiversity informatics research projects, and integration with other initiatives and services in this dynamic field (e.g. CAP-LTER, Complexity of Life, Global Names, GBIF, iDigBio). The selected candidate will assume co-leadership in developing successful externally funded informatics projects, and serve as liaison between ASU collections researchers and students, network administrators, and other ASU information technology support staff. Additional responsibilities may include participation in the creation and implementation of a new teaching curriculum in the field of biodiversity informatics.

Candidates must have an advanced degree (M.Sc. or

higher) in Biology or Computer Science; minimally three years of experience in biodiversity informatics research and software development; and a strong familiarity with biocollections data management (e.g. DarwinCore) and contemporary nomenclatural and taxonomic practices and standards (e.g. TDWG). Desired qualifications include participation in recent federally funded research projects in this field (NSF-ADBC program, iDigBio, GBIF, etc.); extensive experience with programming languages and database-driven web application development, and specifically skills in database design and management such as AJAX, CMS (e.g. Drupal), HTML 5, CSS, SQL, XML, network and server administration, and scripting languages (Java, JavaScript, Perl, PHP, Python, Ruby); familiarity with Web 2.0 programming technologies; high adaptability to meet new challenges; and evidence of strong verbal and written communication skills, including grantspersonship.

Salary will be negotiable, depending on qualifications. To apply, send a cover letter, curriculum vitae, and up to three other items of choice that represent the ability to work as biodiversity informatician to Anna Fields, attn: Biodiversity Informatician Search Committee, School of Life Sciences, PO Box 874501, Tempe, AZ 85287-4501, with electronic applications sent as PDF files to [solsfacultysearch3@asu.edu](mailto:solsfacultysearch3@asu.edu) preferred (mailto: [solsfacultysearch3@asu.edu](mailto:solsfacultysearch3@asu.edu)). The initial closing date for receipt of complete applications is October 14, 2012. For additional information, please feel free to contact Nico Franz ([nico.franz@asu.edu](mailto:nico.franz@asu.edu)) or Les Landrum ([les.landrum@asu.edu](mailto:les.landrum@asu.edu)). A background check is required for employment at Arizona State University, an equal opportunity/affirmative action employer committed to excellence through diversity. We especially encourage women and minorities to apply (see <https://www.asu.edu/titleIX/>). For additional information on the School of Life Sciences, please visit <http://sols.asu.edu>.

This announcement is also available as a PDF at [http://sols.asu.edu/employment/pdfs/f12\\_bio\\_info\\_research\\_associate.pdf](http://sols.asu.edu/employment/pdfs/f12_bio_info_research_associate.pdf) Submitted by Nico Franz. <http://franz.lab.asu.edu/> [nmfranz@asu.edu](mailto:nmfranz@asu.edu)

---

## ArizonaStateU BiodiversityInformatician

Biodiversity Informatician, School of Life Sciences, Arizona State University (position announcement)

The School of Life Sciences at Arizona State University invites applications for a Biodiversity Informatician. This is an academic, non-tenure track faculty research associate appointment.

Arizona State University is a dynamic, progressive university dedicated to interdisciplinary collaborations, to rethinking university education, and to integrating excellence in both research and teaching. The School of Life Sciences (SOLS) at Arizona State University's Tempe campus is committed to strengthening its impact in the fields of biodiversity informatics research and virtual collections management. SOLS maintains organismal collections totaling more than 1.5 million preserved specimens, and has played an instrumental role in creating the Southwest Environmental Information Network (SEINet) which serves more than 2 million records and 100,000 images on-line.

The successful candidate will work in close collaboration with SOLS curators, collection managers, and affiliated researchers and students to advise, develop, and implement database-driven web applications aimed at the electronic dissemination of biological specimen and observation records. Focal areas include the future development of SEINet and its underlying software platform Symbiota, amalgamation and synthesis of all SOLS virtual collections into a unified web portal, participation in novel biodiversity informatics research projects, and integration with other initiatives and services in this dynamic field (e.g. CAP-LTER, Complexity of Life, Global Names, GBIF, iDigBio). The selected candidate will assume co-leadership in developing successful externally funded informatics projects, and serve as liaison between ASU collections researchers and students, network administrators, and other ASU information technology support staff. Additional responsibilities may include participation in the creation and implementation of a new teaching curriculum in the field of biodiversity informatics.

Candidates must have an advanced degree (M.Sc. or higher) in Biology or Computer Science; minimally three years of experience in biodiversity informatics research and software development; and a strong familiarity with biocollections data management (e.g. DarwinCore) and contemporary nomenclatural and taxonomic practices and standards (e.g. TDWG). Desired qualifications include participation in recent federally funded research projects in this field (NSF-ADBC program, iDigBio, GBIF, etc.); extensive experience with programming languages and database-driven web application development, and specifically skills in database design and management such as AJAX, CMS (e.g. Drupal), HTML 5, CSS, SQL, XML, network and server administration, and scripting languages (Java, JavaScript,

Perl, PHP, Python, Ruby); familiarity with Web 2.0 programming technologies; high adaptability to meet new challenges; and evidence of strong verbal and written communication skills, including grantspersonship.

Salary will be negotiable, depending on qualifications. To apply, send a cover letter, curriculum vitae, and up to three other items of choice that represent the ability to work as biodiversity informatician to Anna Fields, attn: Biodiversity Informatician Search Committee, School of Life Sciences, PO Box 874501, Tempe, AZ 85287-4501, with electronic applications sent as PDF files to [solsfacultysearch3@asu.edu](mailto:solsfacultysearch3@asu.edu) preferred (<mailto:solsfacultysearch3@asu.edu>). The initial closing date for receipt of complete applications is October 14, 2012. For additional information, please feel free to contact Nico Franz ([nico.franz@asu.edu](mailto:nico.franz@asu.edu)) or Les Landrum ([les.landrum@asu.edu](mailto:les.landrum@asu.edu)). A background check is required for employment at Arizona State University, an equal opportunity/affirmative action employer committed to excellence through diversity. We especially encourage women and minorities to apply (see <https://www.asu.edu/titleIX/>). For additional information on the School of Life Sciences, please visit <http://sols.asu.edu>.

This announcement is also available as a PDF at <http://sols.asu.edu/employment/pdfs/f12.bio.info.research.associate.pdf> Submitted by Nico Franz. <http://franz.lab.asu.edu/> Nico Franz <[nico.franz@asu.edu](mailto:nico.franz@asu.edu)>

---

## BarnardC ColumbiaU EvolBiol

\*Assistant Professor Of Biology\*

The Department of Biology at Barnard College, Columbia University, seeks a full-time, tenure-track Assistant Professor (starting July 2013) to participate in undergraduate teaching and establish an active, externally funded research program. We are interested in candidates who are broadly trained and address questions at the physiological and/or whole-organism level.

Teaching responsibilities include an advanced lecture, laboratory, and seminar course in the candidates area of specialization, and participation in the core genetics course. Ph.D. and postdoctoral experience is required; teaching experience is desirable.

Applicants should send cv, research and teaching statements, three representative publications and three

letters of recommendation electronically to biologyjob@barnard.edu. Review of applications will begin November 1.

Barnard College is an Equal Opportunity Employer. Women and members of under-represented minorities are encouraged to apply.

Hilary Callahan Associate Professor, Department Chair Department of Biological Sciences 1007 Altschul Barnard College, Columbia University 3009 Broadway New York, NY 10027 212-854-5405

Learn to do common things uncommonly well; we must always keep in mind that anything that helps fill the dinner pail is valuable. - George Washington Carver

Hilary Callahan <hcallaha@barnard.edu>

---

## BrighamYoungU Bioinformatics

<https://yjobs.byu.edu/applicants/jsp/shared/-frameset/Frameset.jsp?time=3D1347316683330>

Bioinformatics/Computational Biology Position Announcement

The Department of Biology at Brigham Young University (BYU) invites applications for a continuing faculty status (BYU's equivalent to tenure) track position in the area of computational biology/bioinformatics. In addition to bioinformatics, faculty research strengths in the Biology Department include evolution, systematics and ecology. We seek exceptional individuals with a PhD and postdoctoral experience relevant to computational biology and bioinformatics. The applicant should have a strong background in biology with publications in recognized biological journals. A successful applicant will also have strong computer programming skills with experience in running applications from the command line on a Linux based supercomputer. The successful candidate is expected to develop an externally funded research program and teach courses in computational biology/bioinformatics and the biology core. The department offers competitive start-up packages and reduced teaching loads for new faculty. The anticipated start date for this position is August 2013.

Complete applications will include a cover letter, curriculum vitae, teaching statement, research statement, and a completed BYU employment application form (found at <https://yjobs.byu.edu>). Applicants should provide names and contact information for three references; letters of recommendation will be requested for

those candidates that make our short list. The initial review process will begin November 1st, 2012 and continue until the position is filled. Inquiries should be directed to Dr. John S.K. Kauwe, Computational Biology/Bioinformatics Faculty Search, 401 WIDB, Department of Biology, BYU, Provo, UT 84602, USA (or email bio@byu.edu).

Brigham Young University, an equal opportunity employer, does not discriminate on the basis of race, color, gender, age, national origin, veteran status, or against qualified individuals with disabilities. All faculty are required to abide by the university's honor code and dress and grooming standards. Preference is given to qualified candidates who are members in good standing of the affiliated church, The Church of Jesus Christ of Latter-day Saints. Successful candidates are expected to support and contribute to the academic and religious missions of the university within the context of the principles and doctrine of the affiliated church.

seth.bybee@gmail.com

---

## BrownUniversity OpenRank PlantEvolutionaryBiologySearch

Brown University Department of Ecology and Evolutionary Biology

Faculty Position in Plant Evolutionary Biology Assistant, Associate or Full Professor

The Department of Ecology and Evolutionary Biology at Brown University seeks to fill an open-rank faculty position in Plant Evolutionary Biology. We will consider outstanding candidates from all areas of evolutionary biology, but especially encourage applications from researchers working on ecological adaptation and plant-environment interactions, employing a macro-evolutionary, comparative perspective. The Department is a highly interactive, diverse group of faculty with numerous collaborations with affiliated departments and research centers at Brown. We are seeking candidates whose research is naturally interdisciplinary and who can make connections with colleagues in the Department of Molecular and Cellular Biology, the Center for Computational Molecular Biology, the Environmental Change Initiative, and the Ecosystems and Josephine Bay Paul Centers at the Marine Biological Laboratory, Woods Hole, MA.

The successful applicant will be expected to develop

a vigorous, externally funded research program and share a strong commitment to excellence in teaching and mentoring graduate and undergraduate students.

Applications should be submitted through Interfolio at <http://www.interfolio.com/apply/16746>. Applicants should submit a letter of interest addressed to Dr. Thomas Roberts, Search Committee Chair, along with a current CV, a concise description of research and teaching interests and goals, and representative preprints or reprints. Additionally, candidates for the Assistant Professor position should arrange to have at least three letters of recommendation sent via Interfolio. Candidates for Associate or Full Professor should provide names and contact information for at least five references who may be contacted by the search committee. All applications will be treated with confidentiality. Review of applications will begin November 15, 2012. The anticipated start date is July 1, 2013.

Brown University is an affirmative action/equal opportunity employer.

Women and minorities are encouraged to apply.

[daniel.weinreich@brown.edu](mailto:daniel.weinreich@brown.edu)

---

## Charleston Microbial Evolution

The Department of Biology at the College of Charleston invites applications for a tenure-track position in Molecular Biology at the Assistant Professor level to begin August 2013. Candidates must have a Ph.D. in the biological sciences and a strong commitment to teaching and maintaining an active research program involving undergraduates. The area of research in molecular biology is open, but particular consideration will be given to candidates whose research focuses on microbes. Primary teaching responsibilities will include undergraduate courses in molecular biology and introductory biology, with the opportunity to develop specialty courses in an area of expertise. The College of Charleston, located in Charleston, SC, is a public liberal arts and sciences institution of 11,000 students, with MS degrees in Marine Biology and Environmental Studies, and a commitment to excellence in teaching and research. Information about the department is available at <http://biology.cofc.edu/>. Applicants should submit electronic (pdf) copies of their curriculum vitae, statement of teaching and research interests, up to three relevant publications, and a list with names and contact information for

three referees. Instructions for submitting applications can be found at <http://biology.cofc.edu/about-the-department/positions-available>. Review of applications will begin November 5, 2012 and will continue until the position is filled. The College of Charleston is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minorities.

Erik Sotka Associate Professor of Biology, College of Charleston Grice Marine Laboratory, 205 Fort Johnson Road, Charleston, SC 29412 Office: 843-953-9191 eMail: [SotkaE@cofc.edu](mailto:SotkaE@cofc.edu) [www.MarineEvolutionaryEcology.org](http://www.MarineEvolutionaryEcology.org) [SotkaE@cofc.edu](mailto:SotkaE@cofc.edu)

---

## California State U Long Beach Curation Technician

Instructional Support Technician

Vertebrate Biology Position open

Salary The salary range for this classification is \$3,698 to \$5,546 per month. Starting salary may be set as high as \$4,160 per month based on experience.

Biological Sciences

[https://my.cms.csulb.edu/psp/-pa91prd/EMPLOYEE/SA/c/-HRS\\_HRAM.HRS\\_CE.GBL?FolderPath=-PORTAL\\_ROOT\\_OBJECT.HR\\_JOBS\\_EXT&IsFolder=false&IgnoreParamTempl=FolderPath%2cIsFolder](https://my.cms.csulb.edu/psp/-pa91prd/EMPLOYEE/SA/c/-HRS_HRAM.HRS_CE.GBL?FolderPath=-PORTAL_ROOT_OBJECT.HR_JOBS_EXT&IsFolder=false&IgnoreParamTempl=FolderPath%2cIsFolder)

Full Time, 40 hours/week.

Must be able to work variable hours.

Position Description

Curates the vertebrate and insect collections of the Department of Biological Sciences. Makes the collections available for appropriate non-destructive uses in teaching and research. Sets up laboratory exercises for the vertebrate and entomological courses. Provides technical support for all faculty members who use these collections in teaching and research.

Knowledge, Skills & Abilities

Ability to curate and maintain a diversity of vertebrate collections. Ability to compile and maintain a collection database. Ability to communicate effectively in a professional manner both verbally and in writing. Sufficient manual dexterity and proficiency with small tools

to prepare specimens.

Ability to communicate with an ethnically and culturally diverse campus community. Ability to follow all university policies, procedures, and guidelines including but not limited to safety, civility, information security, and non-discrimination policies and procedures. Ability to contribute to a positive university experience for each and every student, and assist in achieving the university's commitment to a "vision of excellence."

#### Education and Experience

Equivalent to three years of academic or professional laboratory experience in vertebrate biology required. BA or BS degree in biological sciences preferred. Additional experience in entomology preferred. Experience preparing specimens for museum collections is desirable.

#### Application Deadline

October 19, 2012

#### Equal Employment Opportunity

The university is an Equal Opportunity Employer and does not discriminate against persons on the basis of age, disability, disabled veteran or Vietnam-era veteran status, gender, marital status, national origin, race, religion, sexual orientation or any other protected status.

#### Benefits

Excellent benefits through CalPERS (health, vision, dental), tuition fee waiver, generous vacation and sick leave, and 14 paid holidays each year.

Dr. Ted Stankowich Assistant Professor California State University Long Beach

Ted Stankowich <teds@bio.umass.edu>

---

## ColoradoStateU ChairBiol

Chair of the Department of Biology Colorado State University OPEN SEARCH JOB DESCRIPTION and LONG ADVERTISEMENT

**DESCRIPTION OF THE DEPARTMENT OF BIOLOGY:** The Department of Biology at Colorado State University is one of eight departments in the College of Natural Sciences. The Department has a strong commitment to undergraduate and graduate teaching, as well as excellence in research supported by >\$30 million dollars in active grants. Faculty research interests include global ecological change, organismal interactions

with pathogens, evolutionary ecology, stream ecology, developmental and physiological processes, regulation of gene expression, synthetic biology, molecular evolution, and plant biotechnology. The Department is home to about 1600 undergraduate majors, 75 graduate students, 65 postdoctoral fellows and research associates, and 30 regular faculty members.

Colorado State University and the Department of Biology provide a highly collaborative and supportive environment with opportunities to interact with faculty in other colleges on campus through programs such as the Program in Molecular Plant Biology (<http://plant.biology.colostate.edu/>), and the Graduate Degree Programs in Ecology ([www.colostate.edu/Depts/GDPE/](http://www.colostate.edu/Depts/GDPE/)), in Cell and Molecular Biology (<http://www.colostate.edu/Depts/CMB/>) and in Molecular, Cellular and Integrative Neuroscience (<http://mcin.colostate.edu/>). The Department also plays a major role in entry-level instruction in the biological sciences through the Life-core set of coursesXthe Chair of Biology serves as one member of the Advisory Committee for this program. For more information about CSU in general and the Biology Department in particular, please visit the Biology Department website: <http://www.colostate.edu/Depts/Biology/>. **RESPONSIBILITIES:** The Department Chair serves as the chief administrative officer of the department and is appointed by the Dean of Natural Sciences. With the aid of appropriate departmental committees, the Chair institutes recommendations for appointments, promotion, contract renewal, tenure, salary increases, and dismissals; manages the department budget and teaching assignments; and is the direct liaison between the department and the university administration. The Chair is expected to provide dynamic leadership conducive to excellence in research, instruction, and outreach. As chief representative of the department, the Chair is expected to be an individual of demonstrated scholarship, actively engaged in research, who effectively represents the department to the university and the Biology community at large.

**MINIMUM QUALIFICATIONS:** The Department Chair should have a proven record of excellence in research and teaching, and evidence of effective leadership. Candidates must have earned a Ph.D. in Biology or an allied field and be eligible to hold the rank of Full Professor at a Carnegie RU/VH institution.

**PREFERRED QUALIFICATIONS:** It is essential that the Chair have the ability to communicate effectively with members of the department, administrative officials, students, and other members of the university community. The Department Chair should be engaged in an active research program, and have interest in par-



ticipating in undergraduate and/or graduate instruction and outreach.

**EMPLOYMENT CONDITIONS:** This is a twelve-month, full-time position. Salary and other forms of support will be commensurate with qualifications.

**SELECTION PROCEDURE:** All completed applications will be screened and evaluated by the Search Committee, with input solicited from the faculty, staff, and students in the Department of Biology. A list of candidates that the Committee regards as best qualified for the position will be presented to the Dean, who will make the final selection.

**DATES AND RECORDS:** The Chair position will be available as early as July 1, 2013. For full consideration, complete applications must be received by November 15, 2012.

To apply: combine into one pdf document these four documents: a letter of intent, statement of leadership experience and skills pertaining to research, teaching, and outreach, a current curriculum vitae (CV), statement of research accomplishments and future directions, and list of professional peers who can serve as references. Submit this document via: <http://cns.natsci.colostate.edu/-employment/BiologyChair> Application materials, including letters of recommendation of semifinalist candidates will be made available for review by the Biology Faculty. Additional inquiries should be addressed to:

Professor P. Shing Ho, Chair Biology Chair Search Committee

— / —

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

---

## ConcordiaU EvolutionaryEcol

Tenure-track position in Community and Ecosystem Ecology

The Department of Biology at Concordia University in Montreal, Quebec, Canada invites applications for a tenure track position in any area of Community and Ecosystem Ecology. The successful candidate will have a PhD and postdoctoral experience, and he/she is expected to establish an active, externally-

funded research program, to supervise graduate students, to teach an undergraduate course in community and ecosystem ecology, and to contribute to the teaching of other undergraduate and graduate courses. The ability to teach undergraduate or graduate courses in biostatistics would be an asset. Concordias Department of Biology has research programs in ecology and population biology as well as cellular, genomic and molecular biology.

Applications must consist of a cover letter, a current curriculum vitae, copies of recent publications, a statement of teaching philosophy/interests, a statement of research achievements, and evidence of teaching effectiveness. Electronic applications are encouraged. Candidates must also arrange to have three letters of reference sent directly to:

Dr. Patrick Gulick, Chair, Department of Biology Concordia University 1455 De Maisonneuve Blvd. W. Montreal, QC, H3G 1M8. [patrick.gulick@concordia.ca](mailto:patrick.gulick@concordia.ca) <http://biology.concordia.ca/> Subject to budgetary approval, we anticipate filling this position, normally at the rank of Assistant Professor, for July 1, 2013. Review of applications will begin immediately and will continue until the position has been filled. All applications should reach department no later than November 1, 2012. All inquiries about the position should be directed to the Dr. Gulick at [patrick.gulick@concordia.ca](mailto:patrick.gulick@concordia.ca). For additional information, please visit our website at [artsand-science.concordia.ca](http://artsand-science.concordia.ca).

All qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents of Canada will be given priority. Concordia University is committed to employment equity.

Donal Hickey <[Donal.Hickey@concordia.ca](mailto:Donal.Hickey@concordia.ca)>

---

## DartmouthC EvolutionaryPhysiology

Faculty Position in Ecological and Evolutionary Physiology Department of Biological Sciences

The Department of Biological Sciences at Dartmouth seeks applicants for a tenure track Assistant Professorship in physiology. We seek candidates who study physiological processes at the biochemical, cellular or whole organism level and who are using the tools of biochemistry, biophysics, engineering, mathematics, or computer modeling with the goal of understand-

ing their evolutionary or ecological significance. Areas of interest include the physiology of adaptation, functional morphology, biomechanics, or comparative analyses of morphological, physiological and functional diversity. Candidates who are taking empirical, theoretical or statistical approaches to major questions in these areas in any biological system are welcome. The successful candidate will be expected to supervise an independent research program that will attract extramural funding, to provide research training for graduate and undergraduate students, and to teach physiology at the undergraduate and graduate levels. Application materials should include curriculum vitae, representative publications, statements of research and teaching interests, and the names of at least three references. Please send materials electronically to \$B!H(Bphysiologist.search@cloud.dartmouth.edu“.

Application review will begin on October 10, 2012 and continue until the position is filled. For further information about the department and graduate programs, see <http://www.dartmouth.edu/~biology/> Dartmouth is an Equal Opportunity and Affirmative Action Employer. We welcome applications from & will extend equal opportunity to all individuals without regard for gender, race, religion, color, national origin, sexual orientation, age, disability, handicap or veteran status.

”Ryan G. Calsbeek“ <Ryan.G.Calsbeek@dartmouth.edu>

---

### DenverBotanicGardens GeneticsLabTech

\*Job Title\*: Genetics Laboratory Technician

\*Position Type\*: Full-time

\*Job Summary\*: \*The genetics laboratory technician will be responsible for collection of plant conservation genetic data, genetic data analysis, and day-to-day ordering and upkeep in the Conservation Genetics lab at Denver Botanic Gardens. Data collection and analysis will focus on ongoing projects including the examination of population genetic patterns and taxonomic status in several federally listed species.

\*Qualifications\*: \*Bachelor’s degree (B. A.) (Masters preferred) in botany, biology, genetics, environmental sciences or related field, from four-year college or university; and one to two years related experience and/or training. Experience working independently in a lab is essential. Experience in any combination of the follow-

ing is preferred: population genetics, ISSR (intersimple sequence repeat) analysis, dominant marker techniques, microsatellite analysis, systematics (Sanger sequencing or RAD/other Next Generation sequencing), hazardous waste handling, and lab management.

Undergraduate class work in genetics and botany and a basic knowledge of plant biology are required. Excellent organizational and interpersonal skills are a must. Experience conducting analyses and producing figures for publishing scientific papers preferred. Database design and management, global position systems (GPS), geographic information systems (GIS), and Microsoft software (Word, Excel, Access) are desirable.

Send resume and/or application to \*Human Resources, Denver Botanic Gardens, 1007 York St., Denver CO 80206\*, or \*e-mail your resume to hr@botanicgardens.org\*. We are a nonprofit, EOE.

becky.h.kao@gmail.com

---

### EastCarolinaU EvolutionaryPlantBiochemist

Although this is not explicitly an “evolution” job, applications from folks that span disciplines are welcome.

Tenure Track Faculty Position

The Department of Biology at East Carolina University, the third largest campus in the University of North Carolina system, invites applications for a tenure-track position in Plant Biochemistry at the Assistant or Associate Professor level (will consider other titles based on degree and qualifications) to begin in August 12, 2013. We particularly welcome applicants with research interests in traits and processes relevant to the biology of agriculturally important plants. Qualified applicants will have a Ph.D. and postdoctoral research experience. The successful candidate will establish a vigorous, well-funded research program, contribute to undergraduate and graduate teaching, and mentor students in the M.S. and Interdisciplinary Ph.D. programs. Appropriate service to the university, community and profession is expected. Please visit our website at <http://www.ecu.edu/biology> for more information on the department.

ECU requires online submission at [www.jobs.ecu.edu](http://www.jobs.ecu.edu) using the position number 000388 V Plant Biochemist. Applicants should complete a Candidate Profile and submit a letter of application, statements of research

interests and teaching experience/philosophy and a curriculum vitae. Also, arrange for three current letters of reference to be sent to: Plant Biochemist Search Committee Chair, Department of Biology V Mail Stop 551, Howell Science Complex, East Carolina University, Greenville, NC, 27858-4353 or emailed to letsingerj@ecu.edu. Official transcript and original hardcopy reference letters are required upon employment.

Inquiries may be directed to Dr. John Stiller, Search Committee Chair, stillerj@ecu.edu. Review of applications will begin October 20, 2012 and continue until the position is filled.

East Carolina University is an Equal Opportunity/Affirmative Action University that accommodates individuals with disabilities. Individuals requesting accommodation under the Americans with Disabilities Act (ADA) should contact the Department for Disability Support Services at [252] 737-1016 (Voice/TTY). Proper documentation of identity and employability are required at the time of employment.

Christopher Balakrishnan <chrisbala10@gmail.com>

---

## EmoryU EvolutionaryGenetics

### Tenure Track Position in Evolutionary Genetics

The Department of Biology at Emory University seeks an investigator who studies the mechanisms of evolution. We will consider applicants holding a PhD or equivalent degree with training and experience in a wide range of specializations including, but not limited to, evolutionary genetics, molecular genetics, population genetics, molecular ecology, experimental systems biology, and functional genomics/bioinformatics. This position is for a tenure-track Assistant Professor, although an appointment at a higher rank will be considered in exceptional circumstances.

Applicants are expected to establish a vigorous, extramurally funded research program and enthusiastically participate in the undergraduate and graduate teaching missions of the Biology Department and Interdepartmental Graduate Program in Population Biology, Ecology and Evolution ([http://www.biomed.emory.edu/-PROGRAM\\_SITES/PBEE/](http://www.biomed.emory.edu/-PROGRAM_SITES/PBEE/))

In addition to a CV and publication list, applicants should submit a single PDF file with the following:

(1) A statement of their current and soon anticipated research and approach with a clear description of the questions they are addressing. This statement should explicitly indicate the significance of their research to evolutionary biology at large.

(2) The applicant should describe how they will contribute to the Department's teaching mission at both the undergraduate and graduate level.

(3) A list of names and e-mail addresses of five potential referees. Do not include letters of recommendation with your application or request that letters of recommendation be sent without being solicited by the Department of Biology.

The Emory University Biology Department (<http://www.biology.emory.edu/>) is housed in a modern, well-appointed building. The Biology faculty is productive, well funded, and actively engaged in the research and teaching missions of the University. The successful applicant will have access to state-of-the-art facilities, resources, and academic interactions with over 300 faculty engaged in biological research in the College and Medical School at Emory University and regional institutions including the Centers for Disease Control. Emory is located on a beautiful campus at the periphery of the City of Atlanta, a vibrant, affordable, and culturally diverse city in the wooded foothills of the Appalachian Mountains. Applications should be submitted electronically, to [evobiolsrch@emory.edu](mailto:evobiolsrch@emory.edu). Review of applications will begin January 3, 2013.

Emory University is an Equal Opportunity/Affirmative Action Employer; Applications from Women and Minorities are particularly welcome.

[ngerard@emory.edu](mailto:ngerard@emory.edu)

---

## EmoryU EvolutionaryGenetics 2

Earlier this week, we posted an advertisement for a faculty position in Evolutionary Biology at Emory University. The email address for submission of application materials, unfortunately, was not working. We have corrected this problem, and you should now be able to use that email, included in the below advertisement, for application submission and to send any questions. Sorry for the inconvenience.

### Tenure Track Position in Evolutionary Genetics

The Department of Biology at Emory University seeks

an investigator who studies the mechanisms of evolution. We will consider applicants holding a PhD or equivalent degree with training and experience in a wide range of specializations including, but not limited to, evolutionary genetics, molecular genetics, population genetics, molecular ecology, experimental systems biology, and functional genomics/bioinformatics. This position is for a tenure-track Assistant Professor, although an appointment at a higher rank will be considered in exceptional circumstances.

Applicants are expected to establish a vigorous, extramurally funded research program and enthusiastically participate in the undergraduate and graduate teaching missions of the Biology Department and Interdepartmental Graduate Program in Population Biology, Ecology and Evolution ([http://www.biomed.emory.edu/PROGRAM\\_SITES/PBEE/](http://www.biomed.emory.edu/PROGRAM_SITES/PBEE/))

In addition to a CV and publication list, applicants should submit a single PDF file with the following: (1) A statement of their current and soon anticipated research and approach with a clear description of the questions they are addressing. This statement should explicitly indicate the significance of their research to evolutionary biology at large. (2) The applicant should describe how they will contribute to the Department's teaching mission at both the undergraduate and graduate level. (3) A list of names and e-mail addresses of five potential referees. Do not include letters of recommendation with your application or request that letters of recommendation be sent without being solicited by the Department of Biology.

The Emory University Biology Department (<http://www.biology.emory.edu/>) is housed in a modern, well-appointed building. The Biology faculty is productive, well funded, and actively engaged in the research and teaching missions of the University. The successful applicant will have access to state-of-the-art facilities, resources, and academic interactions with over 300 faculty engaged in biological research in the College and Medical School at Emory University and regional institutions including the Centers for Disease Control. Emory is located on a beautiful campus at the periphery of the City of Atlanta, a vibrant, affordable, and culturally diverse city in the wooded foothills of the Appalachian Mountains. Applications should be submitted electronically, to [evobiolsrch@emory.edu](mailto:evobiolsrch@emory.edu) <<mailto:evobiolsrch@emory.edu>>. Review of applications will begin January 3, 2013.

Emory University is an Equal Opportunity/Affirmative Action Employer; Applications from Women and Minorities are particularly welcome.

[ngerard@emory.edu](mailto:ngerard@emory.edu)

---

## GeorgetownU PathogenEvolution

We are interested in people studying pathogen evolution, evolution of host-pathogen interactions, etc. One member of our search committee and several faculty members in our department are keen on building faculty in this area.

Thank you,

Ronda Rolfes

\*ASSISTANT PROFESSOR\*

\*Global Health/Infectious Disease\* \*Georgetown University\*

The Department of Biology, Georgetown University, invites applications for a tenure-track position at the assistant professor level commencing in August 2013. We seek applicants whose research efforts are in the area of infectious disease, including those who are working on evolutionary aspects of infectious disease. This position is expected to complement ongoing research and teaching efforts in global health at Georgetown University, including a graduate program in Global Infectious Disease and an undergraduate major in the Biology of Global Health. The successful candidate will be expected to teach one course per semester, mentor undergraduates, graduate students and post-doctoral fellows, and maintain an active, extramurally-funded research program. Department information can be found at <http://biology.georgetown.edu/>. Candidates should submit a letter of application, curriculum vitae, a detailed description of previous research accomplishments and future research plans, a statement of teaching philosophy, and the names and contact information for three or more references. Application materials should be submitted electronically in PDF format (preferred) to [biology@georgetown.edu](mailto:biology@georgetown.edu) with 'Biology Application' as subject. We will begin review of applications on November 15, 2012. \*Georgetown University is an Equal Opportunity, Affirmative Action employer fully dedicated to achieving a diverse faculty and staff. All qualified candidates are encouraged to apply and will receive consideration for employment without regard to race, sex, sexual orientation, age, religion, national origin, marital status, veteran status, disability or other categories protected by law.\*

Ronda Rolfes <[rolfesr@georgetown.edu](mailto:rolfesr@georgetown.edu)>

---

## GeorgiaTech 2 EvolutionaryEcol

Two Openings for ecologists/evolutionary biologists:

The Georgia Institute of Technology is one of the top ranked educational/research institutions in the country and ranked as one of the best places to work. As part of significant growth in the biological sciences, the School of Biology is seeking applications for two positions in ecology. Specifically, we are seeking empiricists applying molecular and/or field approaches to understand fundamental ecological and evolutionary questions (including, but not limited to, chemical signaling, ecological genetics, and/or responses to environmental perturbation and biotic threats). Candidates will be favored whose research integrates well with existing strengths and ongoing growth in ecosystem processes and environmental health, regulation of phenotypic plasticity and development, aquatic chemical ecology, genetics and mechanisms of microbial community interactions, and biologically inspired design ([www.biology.gatech.edu](http://www.biology.gatech.edu)). These positions will be filled at the assistant/associate level but outstanding senior candidates with exceptional records are encouraged to apply.

Georgia Tech is an interdisciplinary environment where faculty are strongly encouraged to interact with engineering, computing, and other science faculty. Candidates can submit an application online at <http://searches.biology.gatech.edu>, including a letter of application, curriculum vitae, statement of research interests and plans, and contact information for five references. Review of applications begins October 1, 2012 and will continue until positions are filled.

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

J.T. Strelman Associate Professor School of Biology 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.strelman@biology.gatech.edu](mailto:todd.strelman@biology.gatech.edu) <http://www.biology.gatech.edu/faculty/todd-strelman/> [todd.strelman@biology.gatech.edu](mailto:todd.strelman@biology.gatech.edu)

---

## IBED UAmsterdam PlantEvolution

The Institute for Biodiversity and Ecosystem Dynamics (IBED) is one of eight research institutes of the Faculty of Science at the University of Amsterdam. IBED's mission is to increase our understanding of the diversity and dynamics of ecosystems from the level of genes to entire ecosystems.

Key to IBED's success is the group of top scientists that collaborate with (international) colleagues on many important questions in the field. They benefit from the range of expertise present in the institute and the truly excellent facilities at Science Park Amsterdam. To further strengthen IBED's research we are currently seeking five scientists that share our passion for the study of biodiversity and ecosystem dynamics, and can convey their enthusiasm to a broad range of students. This includes the following position:

Assistant or Associate Professor in Plant evolution and diversity

Research on the origins of diversity in plants at the University of Amsterdam has a rich history, going back to the work of Hugo de Vries. Within IBED's research theme Biodiversity and Evolution there is a vacancy in the group Experimental Plant Systematics for an Assistant or Associate Professor in Plant evolution and diversity.

The main focus of this field is to understand the processes that generate and maintain plant diversity among and within species. We are looking for an evolutionary ecologist with an excellent track record in studying plant evolution and adaptations to environmental conditions, using experiments under controlled or natural conditions and/or analyses of genetic and distribution data.

More information For more information about this or one of the other four positions, or for more details about the institute, its facilities and the application procedure please visit: <http://www.science.uva.nl/IBED> If you have specific questions send an e-mail to: [jobs-ibed@uva.nl](mailto:jobs-ibed@uva.nl)

Closing date for applications is 7 October 2012

“Jansen, Boris” <[B.Jansen@uva.nl](mailto:B.Jansen@uva.nl)>

---

## InstBotany CzechRepublic PopGenetics

The Institute of Botany of the Academy of Sciences of the Czech Republic v.v.i. is offering the position of a

Head of Population Genetics Laboratory / Research Scientist

from January 2013 or earlier.

The position encompasses \* design, implementation and publication of state-of-the-art research in Plant Population Genetics / Molecular Ecology along the lines of the institute's general research directions (see [www.ibot.cas.cz](http://www.ibot.cas.cz)) \* management and further methodological development of the laboratory \* providing the lab infrastructure for other working groups, coordination of lab users, supervision of graduate / postgraduate students \* collaboration with colleagues from different departments, providing advise and support concerning experimental design, preparation of grant proposals, implementation of molecular procedures, data analysis and interpretation, publication and presentation of results

Requirements \* PhD, publications in IF journals, experience with fundraising \* ability to lead a molecular laboratory, experience with the set-up of new techniques \* broad knowledge of molecular applications relevant in population genetics and their mathematical background \* experience with phylogenetic analyses, next generation sequencing and genome data analysis is of advantage \* experience with supervision \* excellent communication skills, ability to work collaboratively as well as independently

We offer \* a fully equipped molecular laboratory (incl. automated sequencer, lab technician) \* an excellent research infrastructure (see also Laboratories and Experimental Gardens; [www.ibot.cas.cz/-index.php?p=vedecke\\_zazemi&site=en](http://www.ibot.cas.cz/-index.php?p=vedecke_zazemi&site=en)) \* the possibility to collaborate on running and future projects \* the option to teach and officially supervise PhD theses at Charles University in Prague \* a pleasant working atmosphere in beautiful surroundings (Průhonice Park) \* a salary according to age, experience, and scientific profile of the selected candidate in accordance with the regulations for academic personnel of Academy institutes, plus bonuses for publications and involvements in grant projects

Applications should include a motivation letter, a curriculum vitae, a description of research interests and future intentions, and two letters of recommendation from supervisors or previous employers. All application materials should be submitted as a single pdf to ([ibot@ibot.cas.cz](mailto:ibot@ibot.cas.cz)) before 31 October 2012. Evaluation of applications will start in the first weeks of November. Interviews for this position are scheduled by end of November 2012.

[ibot@ibot.cas.cz](mailto:ibot@ibot.cas.cz)

---

## IowaStateU BiologicalNetworks

ASSISTANT PROFESSOR, Biological Networks Department of Genetics, Development, and Cell Biology, Iowa State University Applications due October 12, 2012

Job description The Department of Genetics, Development and Cell Biology ([www.gdcb.iastate.edu](http://www.gdcb.iastate.edu)) at Iowa State University seeks candidates for a tenure track faculty position at the Assistant Professor level. Faculty hired into this position will leverage interdisciplinary approaches, both experimental and computational, to interrogate or manipulate biological networks. This includes but is not limited to systems scale metabolomics, proteomics, transcriptomics and/or phenomics approaches to understand networks that mediate important cellular and developmental processes. Successful candidates will establish vibrant, extramurally funded programs of research, will demonstrate an ability to work collaboratively within existing research strengths at ISU, and will contribute to undergraduate courses and to graduate courses in their area(s) of expertise through scholarly teaching. Iowa State University is located in Ames, Iowa, a community of nearly 60,000, recently ranked as one of the most livable small cities in the nation. The university enrolls more than 30,000 students and is committed to achieving inclusive excellence through a diverse workforce. ISU is responsive to the needs of dual-career couples and is dedicated to supporting work-life balance through an array of flexible policies.

Application instructions To apply for this position, go to <https://www.iastatejobs.com> . Click on "faculty" to see all job listings, or search for vacancy 120902. Please be prepared to enter or attach the following documents: 1) Resume/Curriculum Vitae 2) Letter of Application/Cover Letter 3) Summary of past research

accomplishments and future research plans. Attach as “Other documents”. 4) Summary of prior teaching experience and future teaching interests. Attach as “Other documents”.

Additionally, as part of our application process, we are asking you to provide the name(s) and email address(es) for your references. As soon as you submit your application, an automated email will be generated to your references with instructions on how to attach the reference letter to your application through a confidential on-line portal. To ensure consideration, submit materials by October 12, 2012.

Iowa State University is an Affirmative Action employer and will take action to ensure that employment practices are free of discrimination. Iowa State University is committed to achieving excellence through a diverse workforce. Iowa State University does not discriminate on the basis of race, color, age, religion, national origin, sexual orientation, gender identity, genetic information, sex, marital status, disability, or status as a U.S. veteran.

Contacts:

Search Committee Chair: Phil Becraft [becraft@iastate.edu](mailto:becraft@iastate.edu) 515-294-2903

Overview of the departmental mission and goals

The GDCB department is dedicated to biological discovery and excellence in research and teaching. The mission of the department is to explore fundamental genetic, developmental and cellular and subcellular processes, including genome structure, function, and regulation, cell structure and function, cellular response to environmental and developmental signals, cell metabolism, biological networks, and molecular mechanisms of development. These basic research areas underpin larger issues of biodiversity, biorenewables and human health. Advances in biological sciences are stimulated by interactions among researchers working in a range of different disciplines and studying a variety of different organisms. Therefore, GDCB is committed to advancing discovery of basic biological questions in all domains of life. GDCB offers undergraduate majors in biology and genetics, and graduate majors associated with the interdepartmental graduate majors in which the faculty are active. GDCB aspires to maintain its reputation as an outstanding department, recognized nationally and internationally for pioneering discoveries and for excellence in teaching. Departmental goals and core values include: creating knowledge through excellence in basic research, sharing knowledge through learner-centered teaching, and creating and maintaining a departmental culture that values diversity and

promotes success.

Helpful links:

\* Job application: <https://www.iastatejobs.com/applicants/Central?quickFind=82296> \* GDCB Faculty List: [http://www.gdcb.iastate.edu/faculty\\_and\\_research/list.shtml](http://www.gdcb.iastate.edu/faculty_and_research/list.shtml) \* EEOB Department (hiring in the area of Plant Evolutionary Genomics this year): <http://www.eob.iastate.edu/>

— / —

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

---

## IowaStateU PlantEvolutionaryGenomics

ASSISTANT PROFESSOR, Plant Evolutionary Genomics Department of Ecology, Evolution, and Organismal Biology Iowa State University

Applications due October 12, 2012

Job Description: The department of Ecology, Evolution and Organismal Biology (EEOB) at Iowa State University (ISU) seeks a creative individual employing genomic approaches to address key questions in plant evolutionary biology, including but not restricted to comparative genomics, the basis of adaptation and responses to global change. Research that integrates genes to whole organism levels of organization is preferred and expertise in plant organismal biology and bioinformatic /statistical analyses are desirable. The successful candidate will establish a vibrant, extramurally funded program of research, will demonstrate an ability to work collaboratively within existing research strengths at ISU, and will skillfully contribute to teaching undergraduate and graduate courses in their area(s) of expertise.

EEOB ([www.eob.iastate.edu](http://www.eob.iastate.edu)) is a department of 28 tenure track faculty embedded in a highly integrative and collaborative campus. Iowa State University ([www.iastate.edu](http://www.iastate.edu)) is located in Ames, Iowa, a community of nearly 60,000, recently ranked as one of the most livable small cities in the nation. The university enrolls more than 30,000 students and is committed to achieving inclusive excellence through a diverse workforce. ISU is responsive to the needs of dual-career

couples and is dedicated to supporting work-life balance through an array of flexible policies.

Required Qualifications: Ph.D. in a biological science.

Application Instructions: Located at <https://www.iastatejobs.com>. Click on “faculty” to see all job listings, or search for vacancy 120903. Please be prepared to submit the following documents: \* Letter of Application/Cover Letter \* Curriculum Vitae \* Summary of past research accomplishments and future research plans. Attach as “Other documents”. \* Summary of prior teaching experience and future teaching interests. Attach as “Other documents”. \* Additionally, as part of our application process, we are asking you to provide the name(s) and email address(es) for your references. As soon as you submit your application, an automated email will be generated to your references with instructions on how to attach the reference letter to your application through a confidential on-line portal. To ensure consideration, submit materials by October 12, 2012.

Iowa State University promotes excellence through diversity and is an Affirmative Action/EEO employer with an ADVANCE program to enhance the success of women faculty and faculty of color in science and engineering. Iowa State University does not discriminate on the basis of race, color, age, religion, national origin, sexual orientation, gender identity, genetic information, sex, marital status, disability, or status as a U.S. veteran.

Contacts: Please address questions regarding this vacancy to Search Committee Chair Dr. John Nason (515-294-2268, [jnason@iastate.edu](mailto:jnason@iastate.edu)) or to Dr. Lynn G. Clark (515-294-8218, [lgclark@iastate.edu](mailto:lgclark@iastate.edu)). If you have questions regarding the application process, please email [employment@iastate.edu](mailto:employment@iastate.edu) or call 515-294-4800 or Toll Free: 1-877-477-7485.

Helpful links: \* Job application: <https://www.iastatejobs.com/applicants/jsp/shared/position/JobDetails.css.jsp?postingId@9754> \* EEOB Faculty: <http://www.eob.iastate.edu/faculty.html> \* Genetics, Development, and Cell Biology Department (hiring in the area of Systems Biology this year): <http://www.gdcb.iastate.edu/> \* ISU Plant Sciences research: <http://www.plantsciences.iastate.edu/> \* ISU Office of Biotechnology <http://www.biotech.iastate.edu/> \* ISU ADVANCE Program (collaborative efforts to promote the success of a diverse faculty) <http://www.advance.iastate.edu/> \* Information on Iowa State University: <http://www.iastate.edu/about/> \* Information about Ames, Iowa: <http://www.iastate.edu/about/ames.php> [jnason@iastate.edu](mailto:jnason@iastate.edu)

## KFBG China Botany Conservation

Kadoorie Farm & Botanic Garden Corporation

Notice of Vacant Post: Senior Botanist/Senior Ecologist

**JOB SUMMARY** The general remit of the post is to implement KFBG’s plant and forest conservation and restoration strategy through planning and implementing plant conservation, plant biodiversity assessment and forest restoration projects in South China. The work will be underpinned by analysing ecological, molecular and environmental data, developing regional to international-level policy recommendations for biodiversity conservation, communicating findings to stakeholders in biodiversity conservation and writing scientific publications and reports relevant to nature conservation. Major projects of the team include permanent forest dynamic plots, forest restoration projects and conservation projects for rare and endangered plants of the region. The job holder will manage a team of three scientific and five to seven ground staff to implement the above duties and to maintain the routine operations of KFBG’s native tree nursery and herbarium.

Applicants should have a PhD and Postdoctoral experience in the field of botany or ecology (preferably restoration ecology), a minimum of 10 years working experience, strong leadership skills with experience of supervising a team and managing large internally/externally funded projects. Strong communication skills in English and Mandarin (written and oral), advanced knowledge of statistics, strong computational skills and extensive knowledge of the flora of South China are required. Experience in supervising MSc and PhD students would be a plus.

The job holder will primarily be based in Hong Kong, but she/he may also need to work outside Hong Kong to implement projects.

Interested parties should send a detailed CV, expected salary, and a short essay (describing relevant work experience and reasons for interest in the post) to:

Dr. Gunter Fischer, Head of Flora Conservation Department, Kadoorie Farm & Botanic Garden Corporation Lam Kam Road, Tai Po, N.T., Hong Kong Email: [gfisher@kfbg.org](mailto:gfisher@kfbg.org)



---

## Karlsruhe ComputationalBiology

Dear Community,

A full research professorship (joint appointment at KIT, Karlsruhe and HITS, Heidelberg) in computational statistics that can have a focus on molecular biology is available:

Please follow the link to the official job description:

[http://www.math.kit.edu/stoch/event/comp\\_stat/en](http://www.math.kit.edu/stoch/event/comp_stat/en)

Cheers,

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](http://www.exelixis-lab.org)  
alexandros.stamatakis@gmail.com

alexan-

---

## Kiel MarineGenomics Bioinformatics

The Helmholtz-Centre of Ocean Research Kiel (GEOMAR) is one of the leading institutes in marine research in Germany. With 750 employees and a yearly budget of 65 Mio euro its major goal is fundamental and applied research in all areas of marine sciences. For more information please visit [www.geomar.de](http://www.geomar.de). The research unit "Evolutionary Ecology of Marine Fishes" is offering a position for a

Tenure track research scientist -Marine genomics and bioinformatics

We are seeking a highly motivated and enthusiastic candidate who is expected to pursue his / her own research lines within the field of Marine Genomics (eukaryotes). There are also excellent opportunities to collaborate with ongoing and planned experimental projects that address the evolutionary responses of marine populations to global change. Research projects/systems in

our group currently include:

- immune system evolution in invertebrates and teleosts
- adaptation and speciation genetics in sea turtles and teleost fishes
- experimental host-parasite co-evolution with bacteria, fish and viruses
- genomic and transcriptomic adaptation to ocean acidification

a major goal in our group is to seek the genetic basis of rapid adaptation /coevolutionary processes using a combination of selection experiments and field observations across contrasting habitats. One mid-term goal is to make predictions on the adaptability of species /populations based on their genomic architecture and standing genetic variation. The GEOMAR has full access to the Center of Molecular Life Sciences Kiel with their state-of-the art next-generation sequencing facilities. Access to appropriate high-performance computing facilities is also available. The GEOMAR has culturing facilities to conduct experiments, as well as well-equipped immunological, cell biological and molecular genetic laboratories. We are also embedded into the Kiel excellence cluster The Future Ocean with the specific research topic The Evolving Ocean. GEOMAR is also member of the Max-Planck Research School (IMPRS) -Evolutionary Biology'. Close collaboration with the newly established professorship for theoretical biology/bioinformatics at University of Kiel is expected. Candidates with a different background (for example terrestrial model species) are also encouraged to apply, provided they commit to entering the marine world with their model systems. The post includes some start up funding and a share of the institutional budget. In addition, the acquisition of third-party funding to expand the research line by the successful applicant is expected.

**Qualification** We request a doctorate in natural sciences. Fluency in scripting languages and in analyzing next-generation sequencing data is prerequisite. Experience in the research area is best documented by publications in international scientific journals.

This is a full-time position, the earliest starting date is anticipated 1 April 2013, The position is initially available for 3 years. Upon review, it can be made permanent ("tenure track"). The salary depends on qualification and is up to the class 14 TVÖD of the German salary rate for public employees (~70,000euro p.a.).

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

For further information on this post contact Prof.

Thorsten Reusch (treusch@geomar.de).

Please send your applications for this position, including a full cv, a brief description of your research interests and perspective, and two names of possible references, no later than 25 September 2012 by e-mail in a single pdf-file to the personnel office (attn Katharina Mahn, kmahn@geomar.de).

treusch@geomar.de

---

### KielU MaxPlanckInst EnvironmentalGenomics

Professorship in Environmental Genomics Kiel University and the Max-Planck Institute for Evolutionary Biology in Ploen are currently in the process of identifying candidates for a joint recruitment of a full professor (W3) in "Environmental Genomics" supported by additional start-up funds by the Ministry in Kiel. Candidates should have an established track record (approx. 10 years or more research experience) in the field or in a closely related field. Interested candidates can send an informal letter of interest including a CV to splambeck@uv.uni-kiel.de. We accept also nominations of possible candidates by others. Females are specifically encouraged to apply.

Svenja Plambeck M.A. Referentin für strategische Berufungsplanung Christian-Albrechts-Universität zu Kiel Christian-Albrechts-Platz 4 24118 Kiel Tel 0431 880 1300 Fax 0431 880 4848

"Plambeck, Svenja Maria" <splambeck@uv.uni-kiel.de>

---

### Lancaster PA EvolBiol OneYearVisiting

ECOLOGIST / EVOLUTIONARY BIOLOGIST

The Biology Department of Franklin & Marshall College invites applications for three one-year VISITING ASSISTANT PROFESSOR positions in ecology and evolutionary biology, beginning July 2013 (pending administrative approval). Candidates should have the Ph.D., demonstrated strengths in teaching and research

in field and/or laboratory settings, and broad interests in ecology and/or evolutionary biology. Teaching responsibilities will include lectures and laboratories in an evolution-centered introductory course that includes basic Mendelian genetics and ecology, and an upper-level lecture/laboratory course in the candidates area of specialization. Applicants with the ability to teach introductory biostatistics will be preferred. The successful candidates will have the opportunity to engage undergraduates in research, and participate in our interdisciplinary major programs, including Environmental Studies/Science and Biological Foundations of Behavior (neuroscience and animal behavior). Franklin & Marshall is a small (enrollment 2400), highly selective coeducational liberal arts college with a tradition of excellence in science and student research. Applicants should arrange to have letters sent from three referees, and should submit a curriculum vitae, plans for actively engaging undergraduates through teaching, and undergraduate and graduate transcripts. Electronic applications will not be accepted. Priority will be given to completed applications received by November 9, 2012. Send applications to: Dr. Daniel Ardia, Department of Biology, Franklin & Marshall College, P.O. Box 3003, Lancaster, PA, 17604. Telephone: 717-291-4118; fax: 717-358-4548; e-mail: janice.kaufman@fandm.edu; website: <http://www.fandm.edu/biology>. Franklin & Marshall College is committed to having an inclusive campus community, and as an Equal Opportunity Employer, does not discriminate in its hiring or employment practices on the basis of gender, race or ethnicity, color, national origin, religion, age, disability, family or marital status, or sexual orientation.

Jaime Elizabeth Blair, PhD Assistant Professor of Biology Franklin & Marshall College Lancaster PA 17604 Office (717) 291-3959 [jaime.blair@fandm.edu](mailto:jaime.blair@fandm.edu) <http://edisk.fandm.edu/jaime.blair> Jaime Blair <jaime.blair@fandm.edu>

---

### MPI Leipzig EvolutionaryStatistics

Mozilla/5.0 (Windows NT 6.1; WOW64; rv:6.0) Gecko/20110812 Thunderbird/6.0

Max Planck Institute for Evolutionary Anthropology  
Statistician

The Max Planck Institute for Evolutionary Anthropology is looking for a statistician with a strong inter-

est in (and a basic understanding of) the topics investigated in all five departments of the institute (see [www.eva.mpg.de](http://www.eva.mpg.de) for details). The successful applicant will join one full-time statistician already employed at the institute.

Applicants should have a degree in statistics, biological anthropology, biology, psychology or another related field and be able to help, advise and train scientists in the institute. Topics to be treated regularly are design questions, basic statistical tests, graphical presentation of data and models, but mainly processing and analysis of large and complex data sets (including spatial data and time series), multi-model inference, model formulation and simulations. We usually base statistical inference on frequentist as well as IT methods. Applicants should have the capability to rapidly understand research questions from various fields and to creatively and efficiently deal with empirical data. Proficiency in R and programming (preferably in R) as well as good knowledge of GLMs and GLMMs are essential, as is fluency in English.

The position is available from now on and for full time for a 1-year period with a possible extension. The place of work is Leipzig. We offer a salary according to German public service regulations (TVöD-Bund).

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

In a cover letter applicants should describe their scientific and quantitative background, and give a brief statement of their research interests and past experience. Please submit, in a single PDF, the cover letter, a curriculum vitae and contact information for two references via email to [nebel@eva.mpg.de](mailto:nebel@eva.mpg.de). Informal inquiries can be sent to the same address.

Deadline for receipt of applications: September 10, 2012.

Claudia Nebel <[nebel@eva.mpg.de](mailto:nebel@eva.mpg.de)>

---

## MichiganTechU ChairEvolBiol

Open Position: Michigan Technological University,  
Chair of Biological Sciences

Michigan Technological University invites applications

for an Associate or Full Professor to serve as Chair of the Department of Biological Sciences to begin in the 2013-2014 academic year. The successful applicant will have an externally funded research program that complements existing departmental research strengths. The Chair must balance the research program with the administrative responsibilities of this position, which includes managing the academic and financial affairs of the department. Preference will be given to applicants having administrative experience in an academic setting with strong undergraduate and graduate (MS and PhD) programs.

Formal review of applications will begin on November 1, 2012 and will continue until the position is filled. Detailed information concerning the department and university can be viewed at [www.mtu.edu/biological/-chair](http://www.mtu.edu/biological/-chair). Direct inquiries to Susan Bagley, Search Committee Chair ([chairsearchbio@mtu.edu](mailto:chairsearchbio@mtu.edu)). Applicants must send a PDF file with the following items to [chairsearchbio@mtu.edu](mailto:chairsearchbio@mtu.edu): letter of interest that discusses applicant's approach to balancing research and administration; curriculum vitae; statements of research interests, graduate and undergraduate educational philosophies, and approach to administration; and names and contact information of four references.

Michigan Tech is an Equal Opportunity Educational Institution/Equal Opportunity Employer. We have a Dual Career Assistance Program (DCAP), which assists departments with partner orientation to the university and community and identification of possible positions for partners (see [www.dual.mtu.edu](http://www.dual.mtu.edu)).

Michigan Tech is also an ADVANCE institution, one of a limited number of universities in receipt of NSF funds in support of our commitment to increase diversity and the participation and advancement of women in STEM.

The university is in the sixth year of a strategic faculty hiring initiative (see [www.mtu.edu/sfhi](http://www.mtu.edu/sfhi)); the current initiatives relate to Water and Transportation. Previous initiatives focused on Sustainability, Health, Energy, and Computation.

Erika Hersch-Green Michigan Technological University Department of Biological Sciences 1400 Townsend Drive Houghton, MI 49930 906-487-3351

Erika Hersch-Green <[eherschg@mtu.edu](mailto:eherschg@mtu.edu)>

---

## NorthCarolinaMuseumNatSci Director

The N.C. Museum of Natural Sciences, just doubled in size, is expecting to crest 1 million visitors in the next year. Its allure has grown exponentially with the opening of a new wing, the Nature Research Center (NRC). And it is changing the direction of natural history and science museums in the nation - not just engaging visitors with what we know but letting them participate in how we know it.

The Museum seeks a Director who is a visionary/CEO/chief fundraiser/principled leader/public ambassador/collaborator extraordinaire. The Director will articulate the evolving vision for the institution's future and position the Museum to grow its financial and governmental support in pursuit of its mission and goals, including extending the Museum's reach to previously underserved parts of the state. The Director will be focused primarily on planning, fundraising, and integrating the operations of the NRC with the main Museum and realizing its new global potential. The Director will lead development and implementation of a new strategic plan for the Museum, integrating and enhancing all aspects of the Museum's operation, including the Forestry Museum, Prairie Ridge Ecostation and Research Laboratory.

This position requires inspired leadership, professional management, fund raising abilities, outstanding communication skills and relationship-building, and the ability to lead and build a powerful organization. Candidates will have significant senior executive leadership experience in a similarly complex organization. For the complete position description, please see: [http://dhrinternational.com/public/-NCMNS\\_position\\_description.pdf](http://dhrinternational.com/public/-NCMNS_position_description.pdf) For more information, please contact:

Michele Counter Principal, Nonprofit Practice DHR International [mcounter@dhrinternational.com](mailto:mcounter@dhrinternational.com)

[bryan.stuart@naturalsciences.org](mailto:bryan.stuart@naturalsciences.org)

---

## OklahomaStateU EvolutionaryEcol

Assistant Professor, Evolutionary Ecologist V Tenure-track. The Department of Zoology at Oklahoma State University (<http://zoology.okstate.edu>) invites applications for an Assistant Professor in evolutionary ecology. We seek applicants whose core research includes genomic, epigenetic, computational, or behavioral approaches to integrate biological processes across multiple levels of organization. Applicants should have a

Ph.D., post-doctoral experience, teaching experience, and success in obtaining extramural funding. Responsibilities include establishing an extramurally funded research program, mentoring M.S. and Ph.D. students, and teaching at the undergraduate and graduate levels. To apply 1) send a single pdf file composed of a cover letter, curriculum vitae, and statements of research interests and teaching philosophy, and 2) arrange to have three letters of recommendation sent to the search committee chair, Dr. Meredith Hamilton, at [zoologysearch@okstate.edu](mailto:zoologysearch@okstate.edu). Application review begins October 15, 2012, with employment beginning August 16, 2013. Filling of this position is contingent upon funding availability. Oklahoma State University is an AA/EEO/E:Verify Employer committed to diversity. OSU-Stillwater is a tobacco-free campus.

– Michael Tobler Department of Zoology Oklahoma State University 501 Life Sciences West Stillwater, OK 74078, USA Phone: +1-405-744-6815

Website: <http://www.sulfide-life.info/mtobler> Humans are not the pinnacle of evolutionary progress but only an aberrant side branch of fish evolution. - Moyle Michael Tobler <[michi.tobler@okstate.edu](mailto:michi.tobler@okstate.edu)>

---

## Paris HumanPopGenetics

Dear all,

One permanent position of assistant-professor should be open next year in our lab in "Human population Genetics". In order to postulate to this position, candidates need to be "qualified". All informations can be found at [https://www.galaxie.enseignementsup-recherche.gouv.fr/ensup/cand\\_qualification.htm](https://www.galaxie.enseignementsup-recherche.gouv.fr/ensup/cand_qualification.htm) The deadline is 25th october.

Evelyne Heyer

–

Pr Evelyne Heyer Dir adjoint du département Hommes, Natures, Sociétés UMR 7206 Eco-anthropologie Equipe "génétique des populations humaines" CP 139 57 rue Cuvier 75231 Paris Cedex 05 tel: 33 1 40 79 81 58 fax: 33 1 40 79 32 31

En Français <http://www.ecoanthropologie.cnrs.fr/-spip.php?article291> In English <http://www.ecoanthropologie.cnrs.fr/spip.php?article300>  
[heyer@mnhn.fr](mailto:heyer@mnhn.fr)

---

## ProvidenceCollege EvolutionaryBiology

### ASSISTANT PROFESSOR OF BIOLOGY

Applications are invited for a tenure-track position in at Providence College beginning September 2013. The successful applicant will teach biology majors in courses such as Evolution, General Biology, Physiology, Ecological Physiology, advanced courses in their area of expertise, and courses for non-science majors.

Applicants are required to have a Ph.D. (post-doctoral experience preferred), a strong commitment to undergraduate education, and be able to foster a collaborative atmosphere among students and faculty. Applicants should submit: curriculum vitae, graduate transcripts, statements of teaching philosophy and research interests, and three letters of reference on-line at: <https://careers.providence.edu/applicants/jsp/-shared/frameset/Frameset.jsp?time=1347473509078>

.Review of applications will begin by October 22, 2012 and will continue until the position is filled. For additional information please contact: Dr. Charles Toth, Chair, Biology Department, Providence College, Providence, RI02918-0001 or [ctoht@providence.edu](mailto:ctoht@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.

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

Office ph. (401)865-2158 Lab ph. (401)865-1604 and 1603 Fax (401)865-1438 Email [earvalo@providence.edu](mailto:earvalo@providence.edu)

“Arevalo, Elisabeth” <[EAREVALO@providence.edu](mailto:EAREVALO@providence.edu)>

---

## QueensU MathematicalBiology

JOB: Mathematical Biology, Queen’s University

Pending budgetary approval, the Department of Mathematics and Statistics at Queen’s University is seeking outstanding candidates for a tenure-track position in Applied Mathematics at the Assistant Professor level, with a starting date of July 1, 2013. Although applications from outstanding candidates in all areas of Applied Mathematics are invited, priority will be given to candidates able to contribute to the Mathematics and Engineering program or to the Mathematical Biology program. The successful applicant is expected to work in an area that complements areas already represented in the Department, to interact with related groups in the Department, and to have demonstrable interest in, and potential for, teaching.

Research in Mathematical Biology in our department is currently centred around evolutionary biology, ecology, and infectious disease epidemiology, with particular emphasis on the use of deterministic and stochastic dynamical systems, game theory, and optimization. The successful candidate in Mathematical Biology will be expected to work in any of these or complimentary areas of research, and to contribute to both the graduate and undergraduate program. For more information about the Mathematical Biology program, please see <http://www.mast.queensu.ca/graduate/bio.php>. A complete application consists of: a current CV including a list of publications, a Research Statement, and a Teaching Statement. Candidates should also arrange for at least four letters of recommendation, one of which addresses teaching abilities and/or potential. Application materials with the possible exception of recommendation letters should be submitted through <http://www.mathjobs.org>. Recommendation letters may be uploaded directly on <http://www.mathjobs.org>, sent by e-mail to [position@mast.queensu.ca](mailto:position@mast.queensu.ca), or mailed to Department of Math & Stats, Jeffery Hall, University Ave., Kingston, ON Canada, K7L 3N6. In order to ensure full consideration, applications should be received by January 15, 2013.

The University invites applications from all qualified individuals. Queen’s University is committed to employment equity and diversity in the workplace and welcomes applications from women, visible minorities, aboriginal people, persons with disabilities, and persons of any sexual orientation or gender identity. All qualified candidates are encouraged to apply, however, Canadian citizens and permanent residents will be given priority. Academic staff at Queen’s University is governed by a Collective Agreement between the Queen’s University Faculty Association (QUFA) and the University which is posted at <http://www.queensu.ca/provost/faculty/-facultyrelations/qufa/collectiveagreement.html>.

troy.day@mac.com

---

## QuestUCanada EvolutionaryBiol

Quest University Canada, a teaching-focused, liberal arts and sciences institution, seeks applicants for a full-time continuing faculty position in our Life Sciences division; we will consider candidates from any Life Sciences discipline (including but not limited to evolutionary biology). All Quest classes are seminar-style and are limited to have a maximum of 20 students. The successful candidate will develop and teach introductory and upper-level undergraduate courses and mentor undergraduate students. The ability and willingness to develop lab and field-based activities is highly desirable. Broad, discipline-crossover candidates might also consider our advertised interdisciplinary position. Both openings can be found in full at: [http://www.questu.ca/employment/faculty\\_openings/index.php](http://www.questu.ca/employment/faculty_openings/index.php) . cneufeld5@gmail.com

---

## SaudiArabia Bioinformatics

Dear Colleagues,

we are looking for a bioinformatician to analyze transcriptome, metatranscriptome, and genome data sets in the marine realm.

Please see below for further infos.

Thanks, Chris

Programmer/Postdoc/Research Scientist - Bioinformatics - Marine Genomics

Application Deadline: December 31, 2012 Starting Date: September 30, 2012 We are seeking to hire a bioinformatics programmer/postdoc/research scientist with a strong expertise in next-generation sequencing data analysis/assembly, statistics, and databases for the analysis of genomic, transcriptomic, and metatranscriptomic data from marine environments. The successful candidate will join the 'reef genomics' group of PI Christian R Voolstra at the Red Sea Research Center in KAUST. The group is collaborating in an international framework with a team-oriented work ethic. Position can involve diving and field trip participation.

Strong computational skills in the areas of Unix Shell, Perl, R, Bioconductor are required. Knowledge of MG-RAST, MOTHUR/QIIME (or related), ARB, and sequence databases (NCBI, EnSEMBL, SILVA) is a plus.

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 [www.kaust.edu.sa](http://www.kaust.edu.sa) and at <http://faculty.kaust.edu.sa/sites/christianvoolstra/Pages/home.aspx>. The position package includes a highly competitive salary as well as benefits (housing, health insurance, etc.).

Job Description: Programming for biological data analysis Writing analysis pipelines by tying together different programs and summarizing output data Using various sequence databases, such as NCBI and Ensembl Working in a Linux console environment, including (bash) shell and working with job scheduling systems (LSF) on computing clusters Statistics analysis (R, Statistica, etc.) NGS data analysis of mainly Illumina data (some 454), using manufacturer supplied software as well as various third party tools: RNA-Seq analysis assembly and annotation of eukaryote and bacterial genomes and transcriptomes Read mapping and polymorphism analysis Analysis of bacterial populations by 16S rDNA sequencing (mothur, QIIME, ARB, etc.) Using various other software packages for sequence analysis, such as BLAST, hmmer, PAML, different alignment programs, etc.

To apply: Please send cover letter summarizing your qualifications and interests, curriculum vitae, and the names and contact information for at least 2 references to [christian.voolstra@kaust.edu.sa](mailto:christian.voolstra@kaust.edu.sa). The position is to be filled as soon as possible.

Christian R Voolstra Assistant Professor of Marine Science PI Reef Genomics Lab Red Sea Research Center King Abdullah University for Science and Technology ([www.kaust.edu.sa](http://www.kaust.edu.sa)) Work phone: +966 (0) 2 8082377 Mobile Phone: +966 (0) 544700087 Web: <http://faculty.kaust.edu.sa/sites/christianvoolstra/Pages/home.aspx> [christian.voolstra@kaust.edu.sa](mailto:christian.voolstra@kaust.edu.sa)

---

## Smithsonian 2 MolGenet LabTechs

The Invertebrate Zoology Department at Smithsonian National Museum of Natural History has the opportunity to hire two molecular genetics lab technicians. Please see the link below for information about the

opening. The federal hiring system is a bit odd so questions about the process are welcome - feel free to contact me with questions about applying.

Applications are due by Oct. 4.

Cheers - Karen

Begin forwarded message:

Announcement #: 12R-MR-297830-DEU-NMNH Position Title: Biological Science Laboratory Technician (Zoology) Open and Close Dates: Sept. 13, 2012 V Oct. 4, 2012 Vacancy Location: Washington, DC Last Updated: Sept. 12, 2012 Pay Plan/Series/Grades: GS-0404-07

<https://www.usajobs.gov/GetJob/ViewDetails/-326316100> ~~~ Karen Osborn osbornk@si.edu 202-633-3668 Research Zoologist/Curator Department of Invertebrate Zoology Smithsonian National Museum of Natural History, MRC-163 P.O. Box 37012 Washington, DC 20013-7012 USA

Courier address: Smithsonian Institution, MRC 0163, Natural History, West Loading Dock 10th and Constitution Ave., Washington, DC 20560

“Osborn, Karen” <OsbornK@si.edu>

---

## StonyBrookU HumanEvolutionaryBiol

Anthropology - Human Evolutionary Biology - Biostatistician

As part of an interdepartmental initiative in Human Evolutionary Biology, Stony Brook University invites applications for a tenure-track position in the Department of Anthropology at the level of Assistant Professor, beginning September 2013. The successful candidate for this position will have an outstanding research program, a commitment to excellence in teaching and will participate in a new undergraduate major in Human Evolutionary Biology jointly offered by the Departments of Anthropology and Ecology & Evolution.

The Department of Anthropology seeks a Biostatistician with a strong anthropological focus. The successful candidate will teach an undergraduate course in biostatistics for Human Evolutionary Biology majors and develop an advanced biostatistics course for graduate students in the Anthropological Sciences Ph.D. program. Strong preference will be given to a candidate

with expertise in one or more of the following: mixed-effects models, phylogenetic comparative methods, non-parametric statistics, and/or mathematical modeling. Ability to write code (e.g. R or MatLab) is desirable. The candidate must have a demonstrated research interest in evolutionary morphology or behavioral ecology.

The candidates will be expected to teach additional undergraduate courses in their area of expertise, secure external research funding, and play an active role in our highly ranked graduate program. Applicants must have a Ph.D. by starting date and a strong publication record.

Applicants should apply via AcademicJobsOnline.Org <http://academicjobsonline.org/ajo/1856>. Applications should include a cover letter stating research and teaching interests, curriculum vitae, up to three examples of publications, and three references letters (to be submitted by the reference writers through AcademicJobsOnline.Org). Applications should be addressed to the Biostatistician Search Committee, Department of Anthropology, Stony Brook University, Stony Brook, NY 11794-4364, USA. For full consideration applications and letters of reference should be submitted before October 5, 2012. Questions about the search should be directed to the Biostatistician Search Committee at <anthropology@stonybrook.edu>. Stony Brook University is an Equal Opportunity/ Affirmative Action Employer.

smaiolino@notes.cc.sunysb.edu

---

## UBritishColumbia ResAssist Bioinformatics

Job Summary Will provide bioinformatic support for a large scale genomics project. The primary focus of this research is to generate a reference genome sequence for sunflowers using next generation sequencing technology, and to make this data and related resources publicly available.

Organizational Status The incumbent will report to the PI, Dr. Loren Rieseberg. Will work together with and provide technical assistance to other members of the research group including post-doctoral fellows and graduate students. For Administrative matters reports to the Botany Administrative Manager.

Work Performed -Developing and running bioinfor-

matic programs and scripts on Linux -Using BLAST to annotate and confirm genes -organizing large data sets for evolutionary studies -Bioinformatic analysis using BWA and SAMtools -Submitting sequences to NCBI and other public data repositories -Distributing data to collaborators as needed -Website development -Hardware maintenance -Other related tasks in support of the research project

Supervision Received Receives instructions during orientation, thereafter on new assignments or changes in procedures. Work is subject to check by the Principle Investigator (PI). Errors and incorrect decisions would be followed up by further training.

Supervision Given The position has no supervisory responsibilities.

Consequence of Error/Judgement Work will be clearly defined and tasks and duties will require following a protocol already in place; however, there is room for innovative thinking to improve upon existing protocols and provide input into the direction of the project. In most cases errors would require repeating the procedure.

Qualifications High School graduation. Undergraduate degree in Biology or Computer Science preferred. Minimum of 2 years related experience or the equivalent combination of education and experience. 2 years relevant experience with bioinformatic tools required. Completion of courses in evolutionary biology, statistics, molecular 2 years relevant experience with bioinformatic tools required. Proficiency with any of the following is required: Python, Perl, Haskell, C++, Java, and bash. Completion of courses in evolutionary biology, statistics, molecular biology and computer science an asset. Ability to troubleshoot; Ability to exercise initiative, tact and discretion; Ability to participate in and contribute to a multidisciplinary team; A high degree of motivation, enthusiasm and initiative; Strong problem solving and decision making skills; Ability to prioritize workload and meet deadlines; Attentive to detail, with the ability to work quickly and accurately; Ability to learn new software. UBC hires on the basis of merit and is committed to employment equity. All qualified persons are encouraged to apply. We especially welcome applications from members of visible minority groups, women, Aboriginal persons, persons with disabilities, persons of minority sexual orientations and gender identities, and others with the skills and knowledge to engage productively with diverse communities. Canadians and permanent residents of Canada will be given priority.

Job Posting Job ID: 13341 (Repost) Location: Vancouver - Point Grey Campus Employment Group:

CUPE 116(Service/Techs/Trades) Job Category: Research/Technical - CUPE 116 Classification Title: Research Asst/Tech 2 Business Title: Research Asst/Tech 2 Department: Botany Salary: \$38,928.00 (Annual) Full/Part Time: Full-Time Desired Start Date: 2012/08/27 Job End Date: 2013/07/31 Possibility of Extension: Yes

Funding Type: Grant Funded Closing Date: 2012/08/20 Apply here: <http://www.hr.ubc.ca/-careers-postings/staff.php> (job ID: 13341)

Sebastien Renaut <[srenaut@interchange.ubc.ca](mailto:srenaut@interchange.ubc.ca)>  
sebastien.renaut@gmail.com

---

## UCaliforniaBerkely EvolutionInfectiousDisease

### ECOLOGY AND EVOLUTION OF INFECTIOUS DISEASES

The Department of Integrative Biology at the University of California, Berkeley, is soliciting applications for a tenure track position (Assistant Professor) in ecology and evolution of infectious diseases, including host-parasite interactions. A PhD is required by the date of hire. We are searching broadly, without regard to taxon or system and will consider exceptional individuals who study animal, plant, or microbial systems, including parasites that affect human health. Of special interest is research that integrates empirical studies with theory. Research topics could include the ecology of emerging diseases, ecological determinants of transmission by vectors or abiotic agents, the population dynamics of reservoir species and the impact of climate change on disease dynamics and host-parasite interactions. Other areas of research interest desired are pathogen evolution, evolutionary dynamics of host- pathogen systems, pathogen genomics, or the evolutionary consequences of intervention strategies. Candidates must have a strong interest in teaching and will be expected to contribute to instruction in the broad area of Ecology as well as in their specific area of expertise. We are interested in candidates who will contribute to diversity and equal opportunity in higher education through their teaching, research, and service.

Applications and letters of reference should be submitted online through <https://aprecruit.berkeley.edu/-apply/JPF00046>. Applications should include a curriculum vitae; a list of publications; copies of three



significant publications; a brief description of research accomplishments; and a statement detailing research objectives, teaching interests, and service related to increasing participation in higher education by underrepresented groups. In addition, applicants should arrange to have three letters of reference submitted online. All letters will be treated as confidential per University of California policy and California state law. Please refer potential referees, including when letters are provided via a third party (i.e., dossier service or career center), to the UC Berkeley statement of confidentiality: <http://apo.chance.berkeley.edu/evalltr.html>. The deadline for applications is November 1, 2012.

UC Berkeley is committed to addressing the family needs of faculty. Women and minority candidates are encouraged to apply.

The University of California is an Affirmative Action/Equal Opportunity Employer.

Ellen Simms <[esimms@berkeley.edu](mailto:esimms@berkeley.edu)>

---

### UCaliforniaSanFrancisco LifeHistoryTheory

Life History Theory Post-doctoral Fellowship at the Center for Evolution and Cancer The Center for Evolution and Cancer (CEC, <http://cancer.ucsf.edu/-evolution/>) at the University of California, San Francisco is seeking applicants for the Evolution and Cancer Fellowship to start in the Fall of 2012. This fellowship will involve the application of life history theory to three main areas of cancer biology:

1. Life history evolution of somatic cells during neoplastic progression,
2. Life history evolution of cancer cells during therapy and evolution of resistance
3. Organism-level life history tradeoffs affecting cancer susceptibility

Successful candidates will have expertise in life history theory and a strong interest in the application of evolutionary and ecological theory to cancer biology. We encourage applications from candidates with training and/or active interests in any of the following areas: theoretical biology, mathematical or computational modeling, cancer biology, human or social evolution, evolution of resistance, evolutionary medicine.

The Evolution and Cancer Fellow will work primarily with Dr. Athena Aktipis ([www.athenaaktipis.com](http://www.athenaaktipis.com)), Director of Human and Social Evolution at the CEC

and will be co-advised by Dr. Carlo Maley, Director of the CEC. Applicants should send a (1) Curriculum Vitae, (2) a letter of interest describing their training and relevant background and (3) contact information from three references willing to provide letters to [athena.aktipis@ucsfmedctr.edu](mailto:athena.aktipis@ucsfmedctr.edu) with "Fellowship Application" in the title of the email. Review of applications is ongoing and will continue until the position is filled.

Carlo C. Maley, Ph.D. Associate Professor Director, Center for Evolution and Cancer Helen Diller Family Comprehensive Cancer Center Department of Surgery University of California, San Francisco 2340 Sutter St. Box 1351 San Francisco, CA 94115

office:415-476-9239 cell: 415-294-1793

[carlo.maley@ucsf.edu](mailto:carlo.maley@ucsf.edu)

[Carlo.Maley@ucsfmedctr.org](mailto:Carlo.Maley@ucsfmedctr.org)

---

### UCambridge ResAssoc ViralPhylogenetics

UNIVERSITY OF CAMBRIDGE

Research Associate In Viral Phylogenetics

Start date: Immediately Limit of Tenure: 3 years

This post is funded by an MRC Methodology Research Programme grant, entitled 'Combining epidemiological and phylogenetic models of infectious disease dynamics'. The successful applicant will develop state-of-the-art statistical models to link viral transmission with viral evolution, both within- and between-hosts, with the ultimate aim of inferring quantities such as population sizes and selection pressures on viral populations.

You must have relevant experience in statistics and programming, in particular in R and C/C++, preferably in the use of techniques such as Markov Chain Monte Carlo, Sequential Monte Carlo, and/or Approximate Bayesian Computation. An interest in public health aspects of infectious disease is preferred. The candidate should have excellent communication skills, both oral and written, and will be expected to publish manuscripts both on the statistical methodology, as well as on accompanying software to journals such as Journal of Statistical Software and The R Journal.

For informal enquiries please email Simon Frost at [sdf22@cam.ac.uk](mailto:sdf22@cam.ac.uk) Further particulars are available at:

<http://www.vet.cam.ac.uk/news/>

Applicants should supply the following documents:

A letter of application stating areas of interest  
 A full Curriculum Vitae, with the names and contact details of three referees  
 A completed application form CHRIS/6, (parts one and three only) available from the Melissa Large on 01223 337055 or download from: <http://www.vet.cam.ac.uk/news>  
 Applications should be sent for the attention of Miss Melissa Large, Department of Veterinary Medicine, Madingley Road, Cambridge CB3 0ES to arrive no later than 21st September 2012 . Applications can be made via email to [vetmed@hermes.cam.ac.uk](mailto:vetmed@hermes.cam.ac.uk) with the above documents as Microsoft Word or PDF attachments.

Close date: 21st September 2012. Interviews will be held on: 12th October 2012.

[sdf22@hermes.cam.ac.uk](mailto:sdf22@hermes.cam.ac.uk)

---

## UConnecticut Storrs Evolutionary Microbiology

FACULTY POSITION - MICROBIOLOGY University of Connecticut - Storrs

The Department of Molecular and Cell Biology at the University of Connecticut seeks applicants for a 9-month ASSISTANT PROFESSOR TENURE TRACK position in Microbiology, starting August 23, 2013 (Search #2013172). We are particularly interested in candidates working on microbiomes, host-microbe interactions or the ecology and evolution of microbial communities. The Department has strengths in microbial ecology, evolutionary biology, and symbiosis research. Information on microbiological research in the Department and at the University of Connecticut can be found at <http://mcb.uconn.edu> and <http://cmsee.uconn.edu>. The successful candidate will be expected to develop a productive, independent research program, teach at the undergraduate and graduate levels, and employ state-of-the-art or emerging techniques to address important biological questions.

Minimum qualifications include a Ph.D. in Microbiology, Biology or a closely related field, postdoctoral experience, and an outstanding record of research accomplishments. Equivalent foreign degrees are acceptable. Preferred qualifications include the ability to contribute through research, teaching, and/or public engagement to the diversity and excellence of the learning experi-

ence, and to perform research in an area that complements ongoing efforts in the Department and the University.

Hires are encouraged to form collaborations with a growing number of researchers at the University of Connecticut that are engaged in microbial systems research (see <http://cmsee.uconn.edu>), and the Jackson Laboratory for Genomic Medicine (<http://genetichealth.jax.org>). Applicants should apply at <http://www.jobs.uconn.edu> with a CV, cover letter and concise statements of research and teaching interests. In addition, applicants should arrange to have at least three letters of reference sent to [microbiology@uconn.edu](mailto:microbiology@uconn.edu) as a PDF document on letterhead with signature. To ensure full consideration, applications should be received by December 15, 2012. The University of Connecticut is an EEO/AA employer.

[jpgogarten@gmail.com](mailto:jpgogarten@gmail.com)

---

## UGeorgia ResTech

RESEARCH TECHNICIAN UNIVERSITY OF GEORGIA, ATHENS, GA

I anticipate hiring a research technician with an immediate start date. My laboratory conducts research in evolutionary and ecological genetics of invasive species.

Qualifications are an undergraduate degree in Biology or related field with 1 or more undergraduate or graduate courses in genetics, and some research experience. Experience with PCR and molecular biology protocols is desirable. Salary will be commensurate with experience.

I would prefer to hire a recently graduated undergraduate who is interested in working in an academic setting for at least a year before starting graduate school.

The working conditions, intellectual atmosphere, and facilities in Genetics at Georgia are excellent. Athens is a lovely and inexpensive place in which to live with all of the advantages of and culture of a 200 year-old university town. You may wish to look at the Department of Genetics' web site at: [www.genetics.uga.edu](http://www.genetics.uga.edu) . Applications will be accepted until a suitable candidate is found.

For more information, please contact me by e-mail at: [mauricio@uga.edu](mailto:mauricio@uga.edu)

Interested persons should send by e-mail a letter of ap-

plication, a CV and the name, phone number and e-mail address of 2 references.

Rodney Mauricio, Ph.D. Department of Genetics University of Georgia Athens, GA 30602-7223

Lab Web Page: <http://www.genetics.uga.edu/-mauriciolab=0APIRE> Grant Web Page: <http://www.genetics.uga.edu/pire>

mauricio@uga.edu

## **UHawaii Evolutionary Biol**

The Biology and Microbiology Departments are searching for two open- rank positions in Synthetic Biology.

Our Biology Department is in a phase of significant growth with new tenure-track hires, and renovation of a new building for research and teaching underway. Biology is targeting evolutionary biology as an important new research focus, and we are encouraging applications from Synthetic Biologists who are developing or testing basic evolutionary theory. The successful candidate will join several recent hires, including Floyd Reed, Bob Thompson, and Marguerite Butler, and a new Professor/Chair and Evolutionary Developmental Biologist (additional Science adds included below)

For additional questions on these positions, please contact: Dave Carlon, [carlon@hawaii.edu](mailto:carlon@hawaii.edu)

Assistant, Associate or Full Professor (Biology or Microbiology)

The Departments of Biology and Microbiology at the University of Hawai'i at Mānoa, College of Natural Sciences, invite applications for two tenure-track, nine-month faculty positions. The faculty appointments can be at the assistant, associate or full professor level. Research interests and experience should include Synthetic Biology approaches for understanding or engineering archaeal, bacterial, or eukaryotic regulatory networks, signal transduction, protein-protein interactions, development, or production of biomaterials for health, energy or industry. The expected start date is August 1, 2013. Teaching duties will include courses related to the successful candidate's area of specialty. Applicants must have a Ph.D. in the biophysical, biological or life sciences or engineering with evidence of interest in teaching and evidence of research productivity and grantsmanship. Desirable qualifications include a developing record of publication and extramu-

ral funding. Salary will be competitive, and a start-up package will be commensurate with qualifications, experience and research needs. Additional details can be found under position no. 84248 & 82208 at: <http://workatuh.hawaii.edu>. Applicants should send a single PDF document that includes a detailed curriculum vitae, statements of teaching philosophy and research interests, and names and contact information (including email address) for four professional references to [synbio@hawaii.edu](mailto:synbio@hawaii.edu). Screening of applications for this position will begin on November 1, 2012 and continue until the position is filled. The University of Hawai'i is an equal opportunity/affirmative action institution.

Two other ongoing searches in Evolutionary Biology- Assistant Professor in Evolutionary Developmental Biology

Assistant Professor in Evolutionary Developmental Biology, Department of Biology, University of Hawai'i at Manoa. The department, which is in a phase of substantial growth, seeks a colleague who will complement existing strengths in the faculty (see <http://www.hawaii.edu/biology>) by establishing a vigorous research program that integrates developmental and evolutionary biology. Teaching responsibilities will include an advanced undergraduate course in developmental biology and a graduate course in the individual's specialty. Applicants must have a Ph.D. in Biology or a related, evidence of significant research accomplishments and a commitment to excellence in teaching. Desirable qualifications include relevant postdoctoral experience, extramural funding and teaching experience. To apply please send a single PDF document to [dbsearch@hawaii.edu](mailto:dbsearch@hawaii.edu) that includes: a cover letter indicating how you satisfy the minimum and desirable qualifications; statements of research experience and interests and of teaching experience and interests; a detailed curriculum vitae; and three representative publications. Also arrange to have three letters of reference sent to [dbsearch@hawaii.edu](mailto:dbsearch@hawaii.edu). Applicants must be received by October 1, 2012. For a complete job announcement, please refer to <http://workatuh.hawaii.edu>, Position #84503. Inquiries: Dr. Andrew Taylor, [taylor@hawaii.edu](mailto:taylor@hawaii.edu), 808-956-4706. The University of Hawaii is an Equal Opportunity/ Affirmative Action Institution and encourages applications from women and minority.

**FULL PROFESSOR and CHAIR**

The Department of Biology at the flagship Manoa campus of the University of Hawai'i seeks a senior colleague with a world class research program and the ability to lead the department to a new level of international achievement during a major phase of growth

aimed at building strength in evolutionary biology. We are particularly interested in individuals with the vision to build research strengths that will capitalize on Hawai'i's unique evolutionary legacy and position as the US gateway to the Pacific Rim, as well as individuals who can foster and promote successful collaborative groups across diverse research fields

— / —

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>

## Ullinois HostParasiteInteractions

David R. and Margaret Stirewalt Lincicome Professor of Host-Parasite Interactions

Department of Animal Biology School of Integrative Biology University of Illinois at Urbana-Champaign

The Department of Animal Biology and the School of Integrative Biology at the University of Illinois, Urbana-Champaign seeks a highly qualified candidate for the David R. and Margaret Stirewalt Lincicome Professor of Host-Parasite Interactions. This is a full-time faculty position at the rank of Associate or Full Professor with credentials warranting tenure at the University of Illinois. We seek a broadly trained biologist who has a well-established, internationally renowned, externally funded research program in any aspect of host-parasite interactions, including but not limited to co-evolutionary interactions, the molecular, physiological, developmental, or immunological bases of such interactions, effects on host behavior, life histories, population dynamics, conservation biology, or alterations in such interactions caused by global change. We welcome empirical and theoretical approaches. The successful candidate will have the opportunity to be part of dynamic and well-established communities of integrative biologists with interests spanning a wide range of taxa in the School of Integrative Biology, as well as in a number of interdisciplinary programs across the campus. Responsibilities also include teaching and participation in both undergraduate and graduate training. The successful candidate must have a Ph.D. in biology or related discipline. Salary is commensurate with qualifications and experience.

To ensure full consideration, please create your candidate profile through <http://go.illinois.edu/Host->

**Parasite** Interactions and upload your application letter, curriculum vitae, summary of research and plans, teaching philosophy and experience, and contact information for three professional references by November 16, 2012. Referees will be contacted electronically. Applicants may be interviewed before the closing date; however, no hiring decision will be made until after that date. For further information contact Host-Parasite Interactions Search Chair, [sib@life.illinois.edu](mailto:sib@life.illinois.edu).

Illinois is an Affirmative Action /Equal Opportunity Employer and welcomes individuals with diverse backgrounds, experiences, and ideas who embrace and value diversity and inclusivity. ([www.inclusiveillinois.illinois.edu](http://www.inclusiveillinois.illinois.edu)).

[fuller@life.illinois.edu](mailto:fuller@life.illinois.edu)

## UKansas SystematicIchthyology

Assistant Professor \$ Assistant Curator in Systematic Ichthyology at the University of Kansas

Faculty Position in Systematic Ichthyology: The Department of Ecology and Evolutionary Biology (EEB) and the Biodiversity Institute (BI) at the University of Kansas invite applications for a tenure-track joint position as Assistant Professor (50%) and Assistant Curator (50%) that focuses on the systematics, biodiversity, and evolutionary biology of fishes. Appointment is expected to begin as early as August 18, 2013. The successful candidate will be expected to maintain an externally funded research program, teach courses in ichthyology and other areas of specialization, and build and steward the BI's ichthyological collections. Ideally, the candidate's research program will utilize novel experimental or analytical methods, complement existing research strengths in EEB and the BI, and contribute to the climate of diversity in the College, including a diversity of scholarly approaches. Applicants currently ABD will be considered, but a Ph.D. in an appropriate discipline is expected by the start date of appointment. Apply online at <https://jobs.ku.edu> (search for position #00001679) and submit the following documents: (1) curriculum vitae; (2) statement of research interests and future directions; (3) statement of teaching philosophy, experience, and interests; (4) statement of curatorial and data-management philosophy, experience, and interests; (5) PDF copies of three selected publications/manuscripts; and (6) a list of three references. In addition, three letters of recom-

mentation should be submitted as PDF attachments to: [jdorothy@ku.edu](mailto:jdorothy@ku.edu) (Dorothy Johanning). For more information visit <http://www2.ku.edu/~eeb/orhttp://biodiversity.ku.edu/>. The University of Kansas is especially interested in hiring faculty members who can contribute to four key campus-wide strategic initiatives: (1) Sustaining the Planet, Powering the World; (2) Promoting Well-Being, Finding Cures; (3) Building Communities, Expanding Opportunities; and (4) Harnessing Information, Multiplying Knowledge. For more information, see <http://www.provost.ku.edu/planning/themes>. Initial review of applications will begin October 22, 2012 and continues as long as needed to identify a qualified pool. Equal Opportunity Employer M/F/D/V.

“Moyle, Rob” <[moyle@ku.edu](mailto:moyle@ku.edu)>

---

### ULouisianaLafayette LabTech CoralPopGenet

The France Lab in the Department of Biology, University of Louisiana at Lafayette (<http://www.ucs.louisiana.edu/~scf4101/>) is seeking a lab technician to join a lab-based project studying the population genetics of corals inhabiting canyons of the US mid-Atlantic continental slope. The successful applicant will be highly organized, have an attention to detail, be able to work as an independent part of a team, have considerable experience with a variety of standard molecular techniques (for example, DNA extraction, PCR, gel electrophoresis, DNA sequencing, microsatellites, etc.), and will be expected to work closely with, and direct, students. Preference will be given to applicants who have experience running and maintaining a capillary-based automated DNA sequencer (e.g. ABI3130).

Responsibilities: - Extract, PCR amplify and cycle sequence DNA from deep-sea octocorals - develop novel microsatellite markers for population analyses - interpret genetic results and conduct phylogenetic and biogeographic analyses - collaborate with project director on writing up results for publication

Qualifications: Minimum qualification is a Master's Degree in Biology (with research thesis), and demonstrated experience with DNA extractions and PCR, familiarity with DNA-based genetic analyses of sequence and microsatellite data, and facility with standard computer software programs.

Screening will begin 24 September 2012. Send a cover letter, résumé, copy of transcripts (unofficial is OK), and names of 3 references (with current contact information) by e-mail (please send in PDF format) to Dr. Scott C. France, [france@louisiana.edu](mailto:france@louisiana.edu).

–  
Scott C. France [france@louisiana.edu](mailto:france@louisiana.edu) Associate Professor & Graduate Admissions Chair Department of Biology University of Louisiana at Lafayette P.O. Box 42451 Lafayette, LA 70504

For more information about the graduate program please visit: <http://biology.ucs.louisiana.edu/content/-graduate-programs> Office: (337) 482-6320 Lab: (337) 482-6494 FAX: (337) 482-5834 For information on my research please visit: <http://www.ucs.louisiana.edu/~scf4101/> Visit the Deep-Sea Corals Portal at <http://www.ucs.louisiana.edu/~scf4101/Bambooweb/> “To learn and from time to time to apply what one has learned - isn't that a pleasure?” - Confucius, 500 B.C.  
[scf4101@louisiana.edu](mailto:scf4101@louisiana.edu)

---

### UMaryland DirectorAppalachianLab

The University of Maryland Center for Environmental Science (UMCES) seeks a dynamic leader to serve as Director of the Appalachian Laboratory (AL) at the Associate or Full Professor level. Located in Frostburg, Maryland, AL is one of four UMCES laboratories, and is dedicated to advancing research in terrestrial and freshwater systems. With a focus on interdisciplinary research across the mountains-to-the-sea continuum, UMCES advances science and science education to transform the way society understands and manages the environment. The Director is expected to maintain a vigorous, extramurally funded research program; provide leadership of the laboratory's academic and research activities; and effectively execute administrative responsibilities, including oversight of personnel, physical and fiscal resources.

The ideal candidate for this position is an outstanding and experienced interdisciplinary researcher with demonstrated abilities to integrate research across scientific fields, including, for example: (1) interactions between human and natural systems across large spatial and temporal scales; (2) application of a genes-to-ecosystems perspective, addressing influences of genetic variation on population, community, and ecosystem

processes and resilience to global change; and (3) interactions and feedbacks between terrestrial and coastal ecosystems. The successful candidate will exhibit potential for strong scientific leadership and must be prepared to lead the development, communication, and implementation of goals and strategic plans to advance AL's mission.

Excellent facilities for research, computing, and teaching are available at AL, including plant, soil, water, and molecular analysis laboratories with state-of-the-art analytical instrumentation, a new stable isotope facility, growth chambers, and a greenhouse. AL is located adjacent to Frostburg State University, and situated in the mountains of western Maryland within 2.5 hours from Baltimore, Washington D.C., and Pittsburgh. Applicants should send an electronic copy of a curriculum vita; statement of research and leadership interests; selected reprints; and names and contact information of three references to [dirsearch@al.umces.edu](mailto:dirsearch@al.umces.edu). Review of applications will begin immediately and will continue until the position is filled. Information about AL and UMCES and this search can be found at: <http://www.umces.edu/>. UMCES is an Affirmative Action/Equal Opportunity Employer; women and minorities are strongly encouraged to apply.

For inquiries, please contact:

Dr. William C. Dennison Vice President for Science Applications University of Maryland Center for Environmental Science Cambridge, MD 21613

– Dr. Stephen Keller Assistant Professor Appalachian Laboratory University of Maryland Center for Environmental Science 301 Braddock Rd. Frostburg, MD 21532 301-689-7203

[skeller@al.umces.edu](mailto:skeller@al.umces.edu)

---

## UMaryland Lecturer Evolution

The University of Maryland at College Park is searching for a Lecturer in the general area of Ecology/Evolution.

**APPOINTMENT TYPE:** This is a full-time, non-tenure track, 9 month appointment that is renewable annually.

**RESPONSIBILITIES:** Responsibilities will include coordination of introductory biology course in Ecology and Evolution, teaching in Ecology and Evolution and/or Integrative Organismal Biology courses,

advising undergraduates (including majors in Ecology/Evolution; Biodiversity/Conservation Biology), assistance with teaching administration within the Department of Biology, and involvement in undergraduate recruitment activities.

**QUALIFICATIONS:** Ph. D. in an area of the Biological Sciences, strong background in ecology and evolutionary biology, and excellent teaching, writing, organizational, and communication skills. Teaching experience at the college-level preferred.

**DEPARTMENT:** Biology

**SALARY:** Commensurate with experience

**POSITION AVAILABLE:** January 9, 2013 preferred start date

**TO APPLY:** To apply, send a letter of application, a statement of instructional philosophy and experience, a curriculum vitae, and the names and contact information for three individuals who are willing to write letters of reference (a single PDF document containing all application materials is preferred). All applications received by October 17, 2012 will receive full consideration and review will continue until the position is filled. Submit materials to: [jobs.umd.edu](mailto:jobs.umd.edu)

The University of Maryland is an equal opportunity / affirmative action employer.

[abely@umd.edu](mailto:abely@umd.edu)

---

## UMassAmherst ComputationalGenomics

University of Massachusetts Amherst Tenure-Track Assistant Professor Position

Computational Genomics

The Biology Department ([www.bio.umass.edu/-biology](http://www.bio.umass.edu/-biology)) and Commonwealth Honors College ([www.honors.umass.edu](http://www.honors.umass.edu)) at the University of Massachusetts, Amherst invite applications for a tenure-track Assistant Professor position in the area of Computational Genomics. We seek a Biologist who employs computational approaches to address challenging questions in the life sciences. Focus areas could include comparative genomics, genetic and epigenetic regulatory networks, statistical genetics, or other areas at the intersection of computer science, biology and biotechnology. We are particularly interested in indi-

viduals who address questions in developmental and/or evolutionary genomics. The candidate should have a demonstrated excellence in teaching and research and the potential to develop and maintain an extramurally funded independent research program. The successful candidate will teach two honors courses that serve the campus honors community and will be engaged in, and help to strengthen, the departmental honors program. A Ph.D. in Biology or a related field and postdoctoral experience are required. This position will start September 1, 2013.

Application materials should include a curriculum vita, research plan, and teaching statement. Applicants should also have three references letters sent to the address below. Evaluation of applications will begin on October 5, 2012 and continue until the position is filled. Application materials may be sent via email to: [CompBiologySearch@bio.umass.edu](mailto:CompBiologySearch@bio.umass.edu). If needed, paper applications can be sent to: Computational Genomics Search # R44077, Biology Department, Attn: Zoe Crowley, 611 North Pleasant Street, University of Massachusetts, Amherst, MA 01003.

The Biology Department provides an interactive and broad research environment, with faculty research spanning all levels of biological organization. Strong research clusters focus on nervous system development and function, plant biology, cell biology, functional morphology, and evolution. The new faculty member will have the opportunity to participate in strong graduate training programs in Neuroscience and Behavior ([www.umass.edu/neuro](http://www.umass.edu/neuro)), Plant Biology ([www.bio.umass.edu/plantbio](http://www.bio.umass.edu/plantbio)), Organismal and Evolutionary Biology ([www.bio.umass.edu/oeb](http://www.bio.umass.edu/oeb)) and Molecular and Cellular Biology ([www.bio.umass.edu/mcb](http://www.bio.umass.edu/mcb)). The University is part of the 5 College Consortium ([www.fivecolleges.edu](http://www.fivecolleges.edu)) in the beautiful Pioneer Valley in Western Massachusetts, just 2 hours from Boston and 3 hours from New York City.

The University provides an intellectual environment committed to providing academic excellence and diversity including mentoring programs for faculty. The College of Natural Sciences and the Department of Biology are committed to increasing the diversity of the faculty, student body, and the curriculum. We strongly encourage women and members of minority groups to apply. The University of Massachusetts is an Affirmative Action/Equal Opportunity Employer. Positions will be filled contingent upon University funding.

[caicedo@bio.umass.edu](mailto:caicedo@bio.umass.edu)

---

## UMassAmherst PlantEvoDevo

University of Massachusetts Amherst Tenure-Track Assistant Professor Position

Plant Evolutionary Developmental Biology (Evo/Devo)

The Biology Department ([www.bio.umass.edu/biology](http://www.bio.umass.edu/biology)) at the University of Massachusetts Amherst invites applications for a tenure-track Assistant Professor position in the area of the Evolutionary Developmental Biology of Plants to start as soon as September 1, 2013. We seek individuals with a strong record of research at the interface between developmental and evolutionary biology. Applications are welcome from candidates pursuing questions at any phylogenetic level, from the origins and mechanisms of evolutionary novelty to the significance of phenotypic variation in any group of plants. UMass is home to a live plant diversity collection containing nearly 700 genera from more than 225 families that can be used for teaching and research. A Ph.D. in Biology or a related field and postdoctoral experience are required. Application materials should include a curriculum vita, research plan, and teaching statement. Applicants should also have three reference letters sent to the address below. Evaluation of applications will begin on October 5, 2012 and continue until the position is filled. Application materials may be sent via email to: [PlantEvoDevoSearch@bio.umass.edu](mailto:PlantEvoDevoSearch@bio.umass.edu). If needed, paper applications can be sent to: PlantEvoDevo Search # R44071, Biology Department, Attn: Zoe Crowley, 611 North Pleasant Street, University of Massachusetts, Amherst, MA 01003.

The Biology Department provides an interactive and broad research environment, with faculty research spanning all levels of biological organization. Especially strong research clusters focus on plant biology, cell biology, nervous system development and function, functional morphology, and evolution. New faculty members will have the opportunity to participate in strong graduate training programs in Plant Biology ([www.bio.umass.edu/plantbio](http://www.bio.umass.edu/plantbio)), Organismic and Evolutionary Biology ([www.bio.umass.edu/oeb](http://www.bio.umass.edu/oeb)) and Molecular and Cellular Biology ([www.bio.umass.edu/mcb](http://www.bio.umass.edu/mcb)). The University is part of the 5 College Consortium ([www.fivecolleges.edu](http://www.fivecolleges.edu)) in the beautiful Pioneer Valley in Western Massachusetts, just 2 hours from Boston and 3 hours from New York City.

The University provides an intellectual environment committed to providing academic excellence and diversity including mentoring programs for faculty. The College of Natural Sciences and the Department of Biology are committed to increasing the diversity of the faculty, student body, and the curriculum. We strongly encourage women and members of minority groups to apply. The University of Massachusetts is an Affirmative Action/Equal Opportunity Employer. Positions will be filled contingent upon University funding.

caicedo@bio.umass.edu

call the Associate Vice Chancellor of Human Resource Services/Affirmative Action officer at 573-882-4256. To request ADA accommodations, please call Human Resource Services at 573-882-7976. TTY users, please call through Relay Missouri, 1-800-RELAY (735-2966) or en Español at 1-800-520-7309.

Dr. Sarah L. Bush Associate Teaching Professor Division of Biological Sciences 115 Tucker Hall University of Missouri Columbia, MO 65211 USA tel: 573-882-1549

email: bushsL@missouri.edu

---

## UMissouri EvolutionaryBiol

### Faculty Position in Evolutionary Biology

The Division of Biological Sciences (<http://biology.missouri.edu>) at the University of Missouri invites applications for an Assistant or Associate Professor in evolutionary biology. We are interested in candidates studying the processes of evolution, broadly defined, with research programs that form linkages to our current faculty. The campus strengths in life sciences include behavior, genetics, ecology, neurobiology, genomics, bioinformatics and anthropology. The successful candidate will establish a research program that complements our existing strengths, develops cross-disciplinary collaborations, and attracts federal funding.

We offer a highly competitive salary and start-up package, an active doctoral program with institutional support for students, and a highly interactive faculty. Columbia, Missouri is ranked among the top-ten best college towns in the U.S. We are committed to ethnic, racial and gender diversity in our faculty and strongly encourage applications from women and members of groups underrepresented in mathematics and science.

Review of application materials (cover letter, CV, description of research plans and teaching interests, and contact information for three references, all compiled into a single PDF file) will begin October 15, 2012. Application submission instructions can be found at <http://biology.missouri.edu/evosearch>. Questions should be addressed to [evosearch@missouri.edu](mailto:evosearch@missouri.edu).

**Equal Employment Opportunity:** The University of Missouri is an equal access, equal opportunity, affirmative action employer that is fully committed to achieving a diverse faculty and staff. For more information,

---

## UNebraska EvolutionaryBiol

### ASSISTANT/ASSOCIATE PROFESSOR POSITION UNIVERSITY OF NEBRASKA-LINCOLN (UNL) SCHOOL OF BIOLOGICAL SCIENCES

The School of Biological Sciences continues to expand its faculty and invites nominations and applications for a tenure-track, Assistant/Associate Professor position in Evolutionary Biology.

For this academic-year position we seek an individual who addresses evolutionary questions that cross different levels of biological organization. This research program may integrate multiple disciplines, such as genomics, molecular genetics, developmental biology, functional biology and phylogenetics working with any taxonomic group. We are particularly interested in candidates who employ a systems approach to understanding the evolutionary mechanisms underlying responses of organisms to their environments. The successful candidate is expected to develop strong collaborations within and outside of the School, and in so doing contribute significantly to UNL's Life Sciences Initiative. A PhD (or equivalent) and experience in evolutionary biology or a related field is required.

This position is part of the strategic plans of UNL, the College of Arts and Sciences and the School of Biological Sciences directed to strengthen the life sciences. It is expected that the successful candidates will establish nationally recognized and extramurally funded research programs and contribute to the undergraduate and graduate teaching missions of the School of Biological Sciences. The position comes with a highly competitive start-up package. Lincoln Nebraska boasts an outstanding quality of life that includes a vibrant downtown with lively music and art scene and a collection of over 120 parks and 130 miles of bike trails, plus a low



cost of living.

To learn more about the University of Nebraska and the School of Biological Sciences, visit <http://biosci.unl.edu>. Applicants should go to <http://employment.unl.edu>, search for requisition number 120749, complete the Faculty Academic/Administrative Information form, attach a letter of application, Curriculum Vitae, a statement of research plans, a statement of teaching interests, and include the names and contact information for three references. Questions regarding the application process may be sent to [biologysearch@unl.edu](mailto:biologysearch@unl.edu). Review of applications will begin on October 15, 2012 and continue until the position is filled or the search is closed. The University of Nebraska has an active National Science Foundation ADVANCE gender equity program, and is committed to a pluralistic campus community through affirmative action, equal opportunity, work-life balance, and dual careers.

Jay Storz <[jstorz2@unl.edu](mailto:jstorz2@unl.edu)>

---

## UNevda Reno GenomeBiology

The Department of Biology at the University of Nevada, Reno seeks to hire a GENOME BIOLOGIST at the assistant professor level, tenure-track. Of particular interest are genomic applications in non-model organisms within the context of behavior, ecology and evolutionary biology. Areas of expertise could include the study of genome structure and function, population and phylogenomics, and epigenetics, including gene-environment interactions. The successful candidate is expected to maintain a nationally recognized, extramurally funded research program, to train PhD students, and to participate in undergraduate teaching. The Biology Department has 1200 majors, 50 graduate students, 24 state-funded faculty, and averages \$4 million/yr in extramural awards. Reno is located in the Sierra Nevada mountains near Lake Tahoe and was recently rated one of the best small cities in the US for outdoor recreation and overall quality of life. Go to <https://www.unrsearch.com/postings/11500> to submit application materials, including an application letter, CV, research plans, teaching interests, and contact information for three references. Applications received by November 5, 2012 will receive full consideration.

The University of Nevada, Reno is committed to Equal Employment Opportunity/Affirmative Action in re-

ruitment of its students and employees and does not discriminate on the basis of race, color, religion, sex, age, creed, national origin, veteran status, physical or mental disability, and sexual orientation.

Equal Employment Opportunity/Affirmative Action. Women and underrepresented groups are encouraged to apply.

Matthew L Forister Assistant Professor Dept. of Biology / MS 314 1664 N. Virginia St. University of Nevada, Reno Reno, Nevada 89557

Office 257 Fleischmann Life Sciences (775) 784 - 6770

[forister@gmail.com](mailto:forister@gmail.com)

---

## UNewMexico LabTech EvolutionInteractions

Field and Laboratory Technician

Ecology and evolution of plant-animal-microbe interactions

The Rudgers & Whitney Labs at the University of New Mexico are looking for a technician, effective immediately (position open until filled). Duties will include work in both field and laboratory settings on projects examining the ecology and evolution of plant-animal and plant-microbe interactions. Candidates should have B.A./B.S. in biology (or a related field) and some hands-on field and/or lab experience. Training will be provided, but experience with DNA techniques (PCR, sequencing), plant care and greenhouse maintenance, grass identification and vegetation sampling, and/or microbial methods (endophytic and mycorrhizal fungi, biological soil crusts) is a bonus. The position is full-time and term-limited (6-24 months). This position would be an excellent fit for someone planning on graduate study in ecology & evolutionary biology, as there will be the opportunity to gain experience in a number of research areas and to co-author papers.

This is a benefits eligible position. The University of New Mexico (UNM) provides a comprehensive package of benefits including medical, dental, vision, and life insurance. In addition, UNM offers educational benefits through the tuition remission and dependent education programs.

To begin the application process, please follow this link: <https://unmjobs.unm.edu/applicants/jsp/-shared/frameset/Frameset.jsp?time=1348201555968>

For additional information, please contact jrudgers {a} unnc {dot} edu

Jennifer Rudgers Associate Professor Wiess Career Development Chair Department of Ecology and Evolutionary Biology Rice University MS-170 6100 Main Street Houston, Texas 77005

ph 713.348.6276 fax 713.348.5232

<http://www.ruf.rice.edu/~jrudgers/> email jrudgers at rice.edu

---

## UNorthCarolinaWilmington FivePositions

THREE POSITIONS in COASTAL AND MARINE BIOLOGY TWO POSITIONS in MICROBIOLOGY ASSISTANT PROFESSOR

The Department of Biology and Marine Biology at the University of North Carolina Wilmington invites applications for five tenure-track positions starting August, 2013. The successful candidates will contribute to undergraduate and graduate courses as well as maintain a vigorous, extramurally funded research program involving undergraduate and graduate students.

Three positions in Coastal and Marine Biology (Vacancy # 13F017, 13F018, 13F019, Position # 3565, 4730, 6947) Candidates in any area of Coastal and Marine Biology are encouraged to apply, and would be expected to contribute to one or more core courses in the areas of Marine Biology, Genetics, Physiology or Ecology.

Two positions in Microbiology (Vacancy # 13F015, 13F016, Position # 4160, 3535) Candidates in any area of microbiology are encouraged to apply, and would be expected to contribute to courses in microbiology, cell and molecular biology, or a related area.

The Department offers B.S. and M.S. degrees in Biology and Marine Biology, and a Ph.D. in Marine Biology. The Department of Biology and Marine Biology values basic, applied, and translational research. Dual career couples are welcome to apply, and we encourage all job seekers to visit <http://www.uncw.edu/hr/employment-epa.html> to learn about other openings in our Department and at UNCW. Excellent support for research is provided in facilities on campus (<http://www.uncw.edu/bio/>) and at the Center for Marine Science (<http://www.uncw.edu/cms/>). Candidates must

have a Ph.D., and post-doctoral experience is expected. Successful candidates will demonstrate a commitment to excellence in teaching and research.

To apply, complete the online application available at <http://uncw.edu/hr/employment-epa.html>. For questions about the positions, contact Dr. Larry Cahoon, Coastal and Marine Biology Search Chair, [cahoon@uncw.edu](mailto:cahoon@uncw.edu), 910-962-3706 or Dr. Joe Pawlik, Microbiology Search Chair, [pawlikj@uncw.edu](mailto:pawlikj@uncw.edu), 910-962-2377. For questions about the online application process, contact Tracie Chadwick (Coastal and Marine Biology) at [chadwickt@uncw.edu](mailto:chadwickt@uncw.edu), 910-962-3536 or Debbie Cronin (Microbiology) at [cronind@uncw.edu](mailto:cronind@uncw.edu), 910-962-3707. Priority consideration will be given to applications submitted before November 1, 2012.

UNCW actively fosters a diverse and inclusive working and learning environment. Qualified men and women from all racial, ethnic, or other minority groups are strongly encouraged to apply. UNCW is an equal opportunity employer.

Eric Schuettpelz Department of Biology and Marine Biology University of North Carolina Wilmington 601 South College Road Wilmington NC 28403-5915 <http://people.uncw.edu/schuettpelze> [schuettpelze@uncw.edu](mailto:schuettpelze@uncw.edu)

---

## UNottingham LabTech SticklebackEvolution

Research Technician - Fish Ecology & Evolution (Fixed-term) School of Biology, University of Nottingham, Nottingham, UK Closing Date: Tuesday, 9th October 2012 Salary: £21,171, per annum

Applications are invited for the above post based within Dr MacColl's research group in the School of Biology, University Park, University of Nottingham to work in the area of fish ecology and evolution on a project funded by the NERC entitled "Multivariate evolution in replicated adaptive radiations". This project is large and embraces other research groups in Nottingham and beyond, therefore liaison with those other groups, and the ability to interact productively is essential.

The successful candidate will be predominantly responsible for labwork including molecular genetics, morphological measurements of fish and fish husbandry. Tasks will include extraction of DNA from tissue samples, carrying out PCR, staining, photographing and measuring

fish and collation of large datasets, as well as contributions to the breeding, monitoring and care of aquarium housed fish.

Candidates should have a minimum of HNC (or equivalent qualifications) in a relevant subject, plus considerable work experience in a relevant role. There may be opportunities to do fieldwork and therefore willingness to work for prolonged periods of time in remote locations i.e. Scotland, Iceland, Canada and Alaska is desirable as well as previous experience of fish husbandry.

This full-time post is available from 31 December 2012 and will be offered on a fixed term contract for 3 years. To apply see: <http://www.nottingham.ac.uk/jobs/-currentvacancies/ref/MED09754> Informal enquiries may be addressed to Dr Andrew MacColl, tel: 0115 951 3410 or email: [andrew.maccoll@nottingham.ac.uk](mailto:andrew.maccoll@nottingham.ac.uk). Please note that applications sent directly to this email address will not be accepted. Additional information on Dr MacColl's research is available at <http://www.nottingham.ac.uk/biology/people/-andrew.maccoll> and <http://ecology.nottingham.ac.uk/-maccoll.html>. This message and any attachment are intended solely for the addressee and may contain confidential information. If you have received this message in error, please send it back to me, and immediately delete it. Please do not use, copy or disclose the information contained in this message or in any attachment. Any views or opinions expressed by the author of this email do not necessarily reflect the views of the University of Nottingham.

This message has been checked for viruses but the contents of an attachment may still contain software viruses which could damage your computer system: you are advised to perform your own checks. Email communications with the University of Nottingham may be monitored as permitted by UK legislation.

[Andrew.Maccoll@nottingham.ac.uk](mailto:Andrew.Maccoll@nottingham.ac.uk)

---

## UPuertoRico PlantSystematics

\*Position Vacancy in Plant Systematics and Herbarium Director \*

The Department of Biology, University of Puerto Rico, Mayagüez (UPRM, [www.uprm.edu/biology](http://www.uprm.edu/biology))\* \*invites applicants for a \*Tenure-track Position as Assistant Professor in Plant Systematics and Herbarium Direc-

tor\* to begin August 2013 or until position is filled. A Ph.D. degree is required, post-doctoral experience desired. Candidates must demonstrate teaching skills for undergraduate courses in General Botany, Plant Taxonomy and the ability to design and develop courses in the area of specialty. The successful candidate is expected to submit proposals for the establishment of an active research program (short, medium and long term). The candidate will also have his/her teaching duties and direct the MAPR Herbarium. The latter involves to: develop a research program in the Caribbean flora, organize and coordinate the exchange program, curate specimens, represent the herbarium in regional meetings, acquire resources to maintain and improve facilities, supervise the herbarium personnel, and supervise maintenance of the MAPR web page. Research collaboration with other faculty as well as both undergraduate and graduate students is desirable. The appointment will consist of 25% herbarium direction and 75% of teaching and research. External funds, when obtained, will allow eligibility for release time and/or additional compensation during the academic year and/or summer. UPRM is a Land-Grant, Sea-Grant, and Space-Grant institution; interaction with faculty and researchers in these fields is encouraged. Puerto Rico represents a suitable setting to develop research in tropical systems, and the University of Puerto Rico stimulates collaboration with active faculty and students in a wide range of the Biological Sciences and Biotechnology. Benefits include health insurance, retirement plan and tuition waivers in the UPR system for immediate family members according to the Certification 50 2011-2012 of the University of Puerto Rico. Knowledge of English and Spanish, or a willingness to learn is required. Please send Curriculum Vitae, statements of research interests and teaching philosophy, and contact information for three references (by e-mail with hardcopy to follow) by \*January 15, 2013\* to Dr. Nanette Diffoot ([nanette.diffoot@upr.edu](mailto:nanette.diffoot@upr.edu)), Department of Biology, University of Puerto Rico, Mayagüez Campus, Call Box 9000, Mayagüez, Puerto Rico 00681-9000. The University of Puerto Rico is an Equal Opportunity Employer.

Authorized by the State Electoral Commission, case # CEE-C-12-008

Taras Oleksyk Assistant Professor, UPRM Biology

Taras K Oleksyk <[taras.oleksyk@upr.edu](mailto:taras.oleksyk@upr.edu)>

---

## URochester EvolutionaryBiology

Faculty Position in Ecology & Evolutionary Biology  
University of Rochester

The Department of Biology at the University of Rochester invites applications for a tenure track position in Ecology & Evolutionary Biology. Highly qualified candidates conducting research in any area of ecology and evolutionary biology will be considered. Those investigating molecular ecology, phylogenetics and/or ecological genomics are especially encouraged to apply.

The successful candidate will contribute to the Department's existing strengths in evolutionary genetics and genomics (<http://www.rochester.edu/College/BIO/-professors/dept/Ecology+and+Evolutionary+Biology>) and benefit from state of the art infrastructure and core facilities at the University.

Candidates with a strong record of accomplishment should upload application materials at <https://www.rochester.edu/fort/biology>. Complete applications include: a CV; a statement of research interests/ plans; pdfs of three publications; and a statement of teaching experiences and interests. Instructions for supplying three letters of recommendation are provided on the application website. Review of applications will begin November 1st.

The University of Rochester is an Equal Opportunity Employer, has a strong commitment to diversity, and actively encourages applications from candidates from groups underrepresented in higher education.

daven.presgraves@rochester.edu

primates. The successful candidate will have an active research program, a commitment to excellence in both graduate and undergraduate teaching and will become an integral member of a new interdisciplinary program in Human and Evolutionary Biology. Applicants should hold a Ph.D. degree and have a strong record of publishing and grant funding. Applicants should apply by email with a cover letter that describes research and teaching interests, a C.V., pdfs of up to three sample publications and should request the three letters of recommendation be sent no later than November 1, 2012 to: Search Chair, Human and Evolutionary Biology, PED 107, University of Southern California, Los Angeles, CA 90089-0652. Application materials and letters of recommendation may be emailed as pdfs to [stanford@usc.edu](mailto:stanford@usc.edu).

In order to be considered for this position, applicants are also required to submit an electronic USC application; follow this job link or paste in a browser: <https://jobs.usc.edu/applicants/-Central?quickFind=65969>. USC strongly values diversity and is committed to equal opportunity in employment. Women and men, and members of all racial and ethnic groups are encouraged to apply.

—  
Craig Stanford Professor, Departments of Biological Sciences and Anthropology PED 107 University of Southern California Los Angeles, CA 90089-0652

<http://dornsife.usc.edu/labs/stanford/home/-index.cfm> craig stanford <[stanford@usc.edu](mailto:stanford@usc.edu)>

---

## USouthernCalifornia PrimateEvolutionaryGenetics

Title: Univ of Southern California Human/Primate evolutionary genetics scholar

Content:

The University of Southern California invites applications for a tenure-track position at the rank of assistant professor in the Human and Evolutionary Biology program in the Dana and David Dornsife College of Letters, Arts and Sciences. We seek an outstanding scholar in the area of human or nonhuman primate evolutionary genetics, with the goal of understanding and reconstructing human prehistory. An ideal candidate would conduct research in molecular phylogenetics, population genetics, or paleogenomics of humans or nonhuman

---

## UStAndrews ResTech EvolutionSexAdaptation

Research Technician

The genetic basis of adaptive sex allocation in the parasitoid wasp *Nasonia vitripennis*.

We are seeking an enthusiastic research technician to join a 3 year Natural Environment Research Council (NERC)-funded project exploring the genetic basis of sex allocation behaviour in the parasitoid wasp *Nasonia vitripennis*. The project will involve a range of molecular genetic approaches, and the post-holder will provide technical support in terms of the day-to-day running of the behavioural experiments underpinning the genetic analyses, including rearing and managing the wasp stocks.

The successful candidate will have a good secondary school record or equivalent work experience. Familiarity with invertebrate (particularly insect) handling and rearing would be advantageous. Data collection and management skills will also be important. This fixed-term position is for 36 months with a start-date before 31st January 2013.

Please direct informal enquiries to Dr David Shuker (david.shuker@st-andrews.ac.uk) and for further information about the Insect Behavioural Ecology lab please visit: <http://insects.st-andrews.ac.uk/> For further details and also to apply, please visit <https://www.vacancies.st-andrews.ac.uk> and search for Ref No: ML1033

Closing Date: 1 October 2012

University of St Andrews School of Biology/Centre for Biological Diversity Salary: £17,329 - £19,972 per annum Fixed Term: 36 months Start: Up to 31 January 2013

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

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

---

## UTorontoScarborough ConservationBiol

Associate or Full Professor in Ecology and Conservation Biology University of Toronto Scarborough

The Department of Biological Sciences, University of Toronto Scarborough invites applications for a tenure-stream position at the rank of Associate or Full Professor in the area of Ecology and Conservation Biology, to begin July 1, 2013.

The successful applicant must have a strong publication record, evidence of a sustained and externally funded research program, and a proven commitment to graduate student supervision and training. Candidates with an active field program are especially encouraged to apply. The incumbent will be expected to take a leadership role in developing a Professional Master's program in Conservation and Biodiversity. The successful candidate will demonstrate excellence in research and have a strong commitment to excellence in teaching at both

the undergraduate and graduate level.

The University of Toronto is an international leader in biological research and education and the Department of Biological Sciences enjoys strong ties to other units within the University. The successful candidate will be expected to participate actively in the Graduate Department of Ecology and Evolutionary Biology at the University of Toronto (<http://www.eeb.utoronto.ca/>), and to maintain an active research program centered at the University of Toronto Scarborough. Additional information about the University of Toronto's Koffler Scientific Reserve (an internationally recognized site for research and education in biodiversity, ecology and conservation biology) can be found at <http://ksr.utoronto.ca/>. Also, lands neighbouring the University of Toronto Scarborough in the Rouge Valley of eastern Toronto have now been designated as Canada's first National Urban Park (<http://bit.ly/OMSt3K>), providing exciting opportunities for applied conservation research. Salary will be commensurate with qualifications and experience.

Applications must include a CV, statements of research and teaching interests and three representative publications. If you have questions about this position, please contact biologygeneral@utsc.utoronto.ca. All application materials should be submitted online via <http://www.hrandequity.utoronto.ca/careers/co.htm>. Please refer to job number 1201166.

The UofT application system can accommodate up to five attachments (10 MB) per candidate profile; please combine attachments into one or two files in PDF/MS Word format. Submission guidelines can be found at: <http://uoft.me/how-to-apply>. Applicants should also ask three referees familiar with the candidate's research and teaching to send letters directly to the department via e-mail to biologygeneral@utsc.utoronto.ca by the closing date, October 16, 2012.

Applications lacking reference letters will not be considered. All materials must be received by October 16, 2012.

For more information about the Department of Biological Sciences, please visit [www.utsc.utoronto.ca/~biosci](http://www.utsc.utoronto.ca/~biosci). The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from visible minority group members, women, Aboriginal persons, persons with disabilities, members of sexual minority groups, and others who may contribute to the further diversification of ideas. The University is responsive to the needs of dual career couples. The University of Toronto offers the opportunity to conduct research, teach, and live in one of the most diverse cities in the world. All qualified candi-

dates are encouraged to apply; however Canadians and permanent residents will be given priority.

Jessica Barnett-Robinson Assistant to the Chair, Department of Biological Sciences

UNIVERSITY OF TORONTO SCARBOROUGH Science Wing, Room 421B 1265 Military Trail, Toronto, Ontario M1C 1A4 416-287-7399, FAX 416-287-7676

<http://www.uts.utoronto.ca/~biosci/> Jessica Barnett <jbarnett@uts.utoronto.ca>

---

### UWisconsin EvoDevo ComparativeGenomics

Dear Colleagues,

Please forward this advertisement to those that might be interested. We are highly encouraging applications from investigators working in the areas of Evolutionary Developmental Genetics or Evolutionary Comparative Genomics.

FACULTY POSITION in Cell Biology/Development/Neurobiology

The Department of Zoology, University of Wisconsin-Madison, invites applications for a tenure-track position at the ASSISTANT PROFESSOR level, beginning August 2013. Requirements include a Ph.D. and postdoctoral experience in cell biology/development/neurobiology, or related area and demonstrated research accomplishments. Teaching will include courses at the undergraduate and graduate level. For additional information, see our departmental website: <http://www.wisc.edu/zoology>. Please send a single PDF file containing your cover letter, complete curriculum vitae, statement of research and teaching interests, and full contact information for three references to the CDNB Search Committee via e-mail: [mnowicki@wisc.edu](mailto:mnowicki@wisc.edu). Questions should be directed to e-mail: [aostrett@wisc.edu](mailto:aostrett@wisc.edu), Telephone: 608-262-2172, fax: 608-262-9083. Deadline: For full consideration, apply by December 1, 2012. Only applications submitted by e-mail will be accepted.

An Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply. A criminal background check will be required prior to appointment. Unless confidentiality is requested in writing information regarding applicants must be released upon request. Finalists cannot be guaranteed confiden-

tiality.

Carol Eunmi Lee, Ph.D. Professor Center of Rapid Evolution (CORE) 430 Lincoln Drive, Birge Hall University of Wisconsin Madison, WI 53706 [carollee@wisc.edu](mailto:carollee@wisc.edu)

<https://mywebspace.wisc.edu/carollee/web/Lee/-Lee.html> Carol Eunmi Lee <carollee@wisc.edu>

---

### UWisconsinMilwaukee Bioinformatics

The new Great Lakes Genomics Center at University of Wisconsin-Milwaukee, School of Freshwater Sciences, is seeking a highly qualified individual to assist in providing bioinformatics support for functional, comparative, and environmental genomics projects. This individual will assist in developing our bioinformatics capabilities, develop of project-specific bioinformatics (computational and database) tools in conjunction with Faculty, Students, and Academic Staff, provide training and technical support for bioinformatics software, analyze genomic and sequence data, oversee computational and informatics resources including software and hardware, assist in preparation of manuscripts, reports, web-based public databases, and funding proposals.

We seek an individual with at minimum a bachelors degree in bioinformatics, molecular biology or related field and two years experience in multiple sequence alignment (preferably with high-throughput sequencing data), management of large datasets, and experience with gene and protein prediction, neural network analysis, and analysis of microarray data. Experience in programming with Perl, BioPerl or other programming related to sequence analysis, statistical packages (such as R or MATLAB). Familiarity with UNIX environments and computing clusters.

Application Procedures: Applicants must apply online by visiting <https://jobs.uwm.edu/postings/7939>. All applicants must submit a cover letter outlining qualifications and interests, along with a resume that includes names of three references that can speak to the applicants abilities, and contact information for all three references.

Review of applications will begin on October 1, 2012 and will continue until the position is filled.

Rebecca D Klaper <[rklaper@uwm.edu](mailto:rklaper@uwm.edu)>

---

## UWisconsin Madison MolecularEvolution

ASSISTANT PROFESSOR - MOLECULAR EVOLUTION AND POPULATION GENETICS DEPT. of ENTOMOLOGY, UNIVERSITY OF WISCONSIN, MADISON

We seek an individual who studies ecological and evolutionary processes from a population genetics perspective. Emerging issues, such as invasive species, climate change, and infectious disease, issues that affect our food supply, natural resources, and health are of particular interest.

This position is a tenure-track nine-month appointment at the level of Assistant Professor (80% research, 20% instruction). Minimum salary \$80,000 (9 months).

Anticipated begin date August 26, 2013

To ensure consideration send CV, one - two page statement of research interests and plans, a similar statement of teaching philosophy, and a list of three letter-writers to Professor Kenneth Raffa, at [pop\\_gen@entomology.wisc.edu](mailto:pop_gen@entomology.wisc.edu). Please reference PVL 74450.

Application must be received by: OCTOBER 15, 2012

For further details on this position visit: [www.entomology.wisc.edu/employment-opportunities](http://www.entomology.wisc.edu/employment-opportunities)

Johanne Brunet Associate Professor Dept. of Entomology 1630 Linden Drive University of Wisconsin Madison, WI 53706

[jbrunet@wisc.edu](mailto:jbrunet@wisc.edu)

---

## UYork ResTech AphidAdaptation

We are seeking a Research Technician to work on a project on aphid adaptation to different plant species led by Dr Julia Ferrari. We will investigate how adaptation to a new environment can lead to reproductive isolation using the pea aphid as a model system. The project is a collaboration with Prof. Roger Butlin at the University of Sheffield and funded by the NERC.

You will be responsible for maintaining insect cultures, performing entomological experiments and assisting with molecular genetic work. You should have a degree in biology or related discipline. Experience of working with insects or using molecular methods is highly desirable.

Informal enquiries can be made directly to Dr Julia Ferrari (email: [julia.ferrari@york.ac.uk](mailto:julia.ferrari@york.ac.uk)).

This full time post is available from 1st October 2012 for a period of up to three years. Full details can be found at <https://jobs.york.ac.uk> -

Julia Ferrari Department of Biology (Area 14) University of York York YO10 5DD UK

Tel. ++44 (0)1904 32 8550

EMAIL DISCLAIMER: <http://www.york.ac.uk/docs/-disclaimer/email.htm> [jf557@york.ac.uk](mailto:jf557@york.ac.uk)

---

## UZurich ResAssist PopulationBiology

Laboratory Technical Assistant (50%) The recently formed Population Ecology Research Group at University of Zurich is looking for a Technical Laboratory Assistant (initially at 50% employment for one year, with possibility of extension) to work in a rotifer demography laboratory. Our team investigates wildlife population dynamics using a biodemographic perspective, and applies modelling and statistical techniques to field and laboratory data to test hypotheses on the dynamics and persistence of wildlife populations. In this project, we will use an experimental rotifer system to test hypotheses on the links between ecological and evolutionary processes in changing environments.

Main tasks You will provide technical support for our research and assist in the building and running of a laboratory system of Bdelloid rotifers. Techniques will include conducting population censuses, recording individual-based life-histories and phenotypic trait measurements using stereoscopic microscopes, and the set-up and maintenance of selection lines. You will be responsible for maintaining the labs stock cultures, perform experiments, manage and oversee day-to-day laboratory functions, assist in the supervision of students and research collaborators, managing data collections, participate in analysing data, and keep detailed records of procedures and results.

Your profile We are looking for a reliable, independent and team-oriented person with sound laboratory and organisational skills, rigour in monitoring and measurement of individual organisms, enthusiasm for ecological and evolutionary research, an ability to work independently with minimal supervision, as well as strong interpersonal, written and verbal communication skills (in English and ideally in German too). Experience with managing laboratory populations is highly desired, and familiarity with analysis of data in R is a plus.

Our offer We offer a job in a dynamic research environment, where you will be member of a new Population Ecology Research Group in the Institute of Evolutionary Biology and Environmental Sciences of the University of Zurich and will be based at Irchel Campus. The position is a 50% post with schedule flexible and depending on the specific experimental requirement. Salary will be based on your experience according to the guidelines of the Swiss National Science Foundation. This is a unique career opportunity especially if you are planning to continue to a PhD degree in a related field, as you will participate in research design, conduct and analysis, and therefore, partake in resulting publications.

Please send your application material including (1) a single page cover letter, (2) your CV, and (3) contact info for two references, all in electronic format, to Prof. Dr. Arpat Ozgul (arpat.ozgul@ieu.uzh.ch) by October 15th, 2012.

[http://www.telejob.ch/advertisement/-technical\\_laboratory\\_assistant\\_50.1/21720](http://www.telejob.ch/advertisement/-technical_laboratory_assistant_50.1/21720)  
Fontaneto <diego.fontaneto@gmail.com>

Diego

molecular biology or bioinformatics.

The successful candidate will be expected to teach an undergraduate course in developmental biology and introductory cell biology, along with possible graduate courses in his or her area of expertise. He or she will advise undergraduate, masters and doctoral students in the Department of Biological Sciences. Teaching load will be 4-6 courses per year (2-3 during the first year).

The Biological Sciences Department at the Universidad de los Andes is among the top biology programs in Latin America, and hosts 27 full-time professors. Internationally recognized research programs include evolutionary genetics, microbial genomics, phylogeography, bioinformatics, evolutionary ecology, human genetics, and molecular systematics. The candidate will have his or her own lab space as well as access to a centralized DNA sequencing facility and confocal microscope and SEM. The Biology faculty is relatively young, dynamic and growing rapidly, and the University offers diverse sources of financing for professors and graduate student research. For more information visit: <http://dcb.uniandes.edu.co/> Interested candidates should send a curriculum vitae, a description of her or his research program, and a teaching statement (preferably as a single PDF) to the following email address: ccontbio@uniandes.edu.co

Deadline for receipt of material is September 15, 2012. Preferred candidates will then be asked to submit letters of recommendation and copies of recent publications.

For additional information, please contact:

Adriana Bernal Profesora Asociada Departamento de Ciencias Biológicas Universidad de los Andes Tel. +57 1 339-4949 x2619 Email: abernal@uniandes.edu.co

—  
Carlos Daniel Cadena Profesor Asociado Departamento de Ciencias Biológicas Universidad de los Andes Bogotá, Colombia

Tel: (57-1) 3394949 Ext. 2072 cca-  
dena@uniandes.edu.co <http://evolvert.uniandes.edu.co>  
Carlos Daniel Cadena Ordoñez  
<ccadena@uniandes.edu.co>

---

## UdelosAndes EvoDevo

UNIVERSIDAD DE LOS ANDES

Developmental Biology

The Department of Biological Sciences at the Universidad de los Andes in Bogotá, Colombia, seeks to fill a full-time position in Developmental Biology at the Assistant or Associate Professor level. The successful applicant must possess a Ph.D., preferably with post-doctoral experience and a successful track record of scientific productivity. We especially encourage applications from candidates with knowledge and research interests in evolutionary developmental biology (evo-devo) and/or using research tools in genetics, genomics,

---

**ValdostaStateU US**  
**PhylogeneticsMacroevolution**



The Department of Biology at Valdosta State University is accepting applications for a tenure-track, academic-year faculty position at the Assistant Professor level specializing in phylogenetics and macroevolution to begin in August 2013. The candidate will be expected to teach majors and/or non-majors introductory biology courses with lab components, upper division courses in their area of expertise, and maintain an active research program involving undergraduate and masters level graduate students. The Department of Biology has state-of-the-art capabilities in molecular biology which is illustrated on our website.

The Department of Biology at Valdosta State University has experienced a rapid period of growth for the last five years and currently has 28 faculty. The Department has over 900 biology majors and twenty Masters students (the M.S. Biology program began in fall 2006). The department has a strong research program involving undergraduate and graduate students and is supported by a wide range of state and federal funding agencies, including the NSF and NIH.

The Department of Biology is well equipped with scientific instrumentation and Valdosta State University has a dedicated pool of funds to purchase major scientific instrumentation for research. Faculty at Valdosta State University are supported by the university with reassigned time for research, intramural research funds, start-up funds for new faculty, and travel funds for each faculty member to attend two professional meetings each academic year.

The city of Valdosta is located in south-central Georgia approximately 20 miles north of Florida. Valdosta is known for its excellent schools and affordable housing. Outstanding Florida beaches are less than three hours away by car and Orlando is less than a four hour drive. Valdosta is served by three daily flights via Delta Airlines that connect to Atlanta.

Applications must be submitted online via Human Resources at VSU:

<https://valdosta.peopleadmin.com/> "Corey D. Anderson" <coreanderson@valdosta.edu>

---

## Vienna PopGenetics GroupLeader

Tenure-track group leader position available at the Institute of Population Genetics, Vetmeduni Vienna.

The Institute of Population Genetics at the Vetmeduni Vienna is recruiting a group leader (roughly equivalent to an assistant professorship). The research focus of the Institute of Population Genetics is on understanding the genetics of adaptation. This central question in evolutionary biology is being tackled using up-to-date methods and a variety of approaches, including experimental evolution, quantitative genetics, examination of life history traits, Evo-Devo, empirical population genetics, bioinformatics and statistics. While the workhorse organism in the institute is *Drosophila*, (we host one of the largest collections of natural *D. melanogaster* populations and maintain various experimental evolution cages), research at the institute also includes *Arabidopsis*, camels, cheetahs and lemurs.

The successful candidate will have a record of high quality research in population genetics, preferably with a proven ability to attract extramural funding. While we welcome applications from experimentalists as well as theoreticians, we expect that the future post holder will actively enhance our visibility in *Drosophila* population genetics.

In recent years, Vienna has developed into one of the leading centers in evolutionary biology (<http://www.evovienna.at>). In addition, the Vienna School of Population Genetics (<http://www.popgen-vienna.at>), attracts an international body of graduate students. Apart from a stimulating scientific environment, Vienna also offers an extraordinarily high quality of life. Affordable housing, excellent public transport, great restaurants, a range of international schools, two operas, two music centers, many theaters and museums in combination with a pleasant climate make Vienna one of the most attractive cities in Europe.

The position is available from the beginning of 2013. The application should be emailed to [christian.schloetterer@vetmeduni.ac.at](mailto:christian.schloetterer@vetmeduni.ac.at) as a single pdf containing CV, list of publications, a statement of research interests, and the names of three references with contact details. While the search will continue until the position is filled, applications should be received by October 15, 2012 to ensure full consideration.

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

phone: +43-1-25077-4300 fax: +43-1-25077-4390  
<http://i122server.vu-wien.ac.at/pop> Vienna Graduate School of Population Genetics <http://www.popgen-vienna.at> [schlote@gmail.com](mailto:schlote@gmail.com)

---

## Other

ASMBiofilms Miami accomodation .....	74	Phylogeny MorphologicalData Software answers ...	76
Alternative simulation sequences .....	74	Samples Aster Puccinellia Triglochis .....	77
AnimalMinds .....	74	Shipping dry DNA pellet answers .....	77
D melanogaster GFPconstruct .....	75	Software DPPDIV new version .....	79
D pseudoobscura stock .....	75	Software jModelTest2 .....	79
DNA Barcoding blog .....	75	UGeorgia EvolutionaryGenetics .....	80
Drosophila stock clearance .....	75	UsedLabEquipment BelizeBiodiversity .....	80
ESEB outreach fund .....	76	Vial samples .....	81
Looking for teaching material .....	76		

---

### ASMBiofilms Miami accomodation

Greetings!

I will be attending the American Society for Microbiology meeting on Biofilms in Miami, FL (September 29th to October 4th). I will arrive in Miami on September 28th to attend one of the workshops on the 29th and will stay until October 4th. I am looking for an attendee who would be willing to share the costs of housing with me (either from Sept. 28th or from Sept. 29th).

If you are interested and would like to discuss specifics please contact me at rcguerr@emory.edu.

Thanks!

Ricardo C. Guerrero, PhD Emory University School of Medicine Division of Pediatric Infectious Diseases

Emory Children's Center 2015 Uppergate Dr NE, Suite 560 Atlanta, GA 30322 Lab: +1 404-727-3752 Office: +1 404-727-0039 Dept. Office: +1 404-727-5642 Fax: +1 404-727-9223

"Guerrero, Ricardo C." <rcguerrero@emory.edu>

---

### Alternative simulation sequences

Hello there,

I'm looking for an alternative to Yang's MCcoal software to simulate interspecific sequences according to coalescent scenarios. In particular, MCcoal only simulate data according to the JC model and I'd like to simulate data according to at least a K2P + G model.

Thanks,

Jason Mustakas jas2339@yahoo.com

Jason S <jas2339@yahoo.com>

---

### AnimalMinds

Royal Society Publishing has just published Animal minds: from computation to evolution, organized and edited by Uri Grodzinski, Nicola S Clayton and Alex Thornton. See - <http://bit.ly/tQn58B>

for further details or you can go straight to the issue contents at <http://rstb.royalsocietypublishing.org/content/367/1603.toc> The print issue is available at the special price of £35.00 (usual price £59.50). You can order this online via the above web page (enter special code TB1603 when prompted) or, alternatively, you can contact [debbie.vaughan@royalsociety.org](mailto:debbie.vaughan@royalsociety.org)

Felicity Davie Tou-can Marketing 8 Alpha House Napier Road Crowthorne Berkshire RG45 7AU

E-mail: [felicity@tou-can.co.uk](mailto:felicity@tou-can.co.uk)

adapted stocks of both *Drosophila pseudoobscura* AND *D. persimilis*. I would be delighted to hear from anyone that might be willing to share either or both of these.

Much appreciated, Howard

Howard D. Rundle, Associate Professor Department of Biology, 30 Marie-Curie Priv. University of Ottawa, Ottawa, ON, K1N 6N5, CANADA

Ph: +1 613-562-5800 x2835; Fax: +1 613-562-5486; Skype: [howarddrundle](http://www.science.uottawa.ca/~hrund050) <http://www.science.uottawa.ca/~hrund050> <http://www.evolution.uottawa.ca> [howard.rundle@uottawa.ca](mailto:howard.rundle@uottawa.ca)

---

## D melanogaster GFPconstruct

Hi,

I am looking for a *Drosophila melanogaster* GFP construct in which the GFP is under the control of a ubiquitous promoter, not on a balancer, and is not a fusion protein (and ideally, without major fitness consequences). If anyone has, or knows of, such a stock, I would love to hear about it. It would be used as a marker in some sexual selection research.

Many thanks, Howard

Howard D. Rundle, Associate Professor Department of Biology, 30 Marie-Curie Priv. University of Ottawa, Ottawa, ON, K1N 6N5, CANADA

Ph: +1 613-562-5800 x2835; Fax: +1 613-562-5486; Skype: [howarddrundle](http://www.science.uottawa.ca/~hrund050) <http://www.science.uottawa.ca/~hrund050> <http://www.evolution.uottawa.ca> [howard.rundle@uottawa.ca](mailto:howard.rundle@uottawa.ca)

---

## D pseudoobscura stock

Dear Drosophilists,

I am looking for a healthy, lab-adapted and outbred stock of *Drosophila pseudoobscura*, preferably one that is adapted to a relatively simple food recipe (e.g., not requiring fresh bananas). I realize that the stock center may be one source, I would be very interested in a stock in current and successful use in a lab, and with a known history.

I am actually looking for healthy, outbred and lab-

---

## DNA Barcoding blog

Dear colleagues,

I am pleased to announce a new blog on DNA Barcoding and related topics at <http://dna-barcoding.blogspot.ca/>

It is running for a few days already and I believe it is time to get the word out to everyone. Have a look if you are interested and feel free to spread the word.

Thanks.

Dirk Steinke

-

Dr. Dirk Steinke

Biodiversity Institute of Ontario University of Guelph 50 Stone Road East Guelph, ON, N1G2W1

email [dsteinke@uoguelph.ca](mailto:dsteinke@uoguelph.ca) blog: <http://dna-barcoding.blogspot.ca/> [dsteinke@uoguelph.ca](mailto:dsteinke@uoguelph.ca)

---

## Drosophila stock clearance

EvoDir members,

I have some very long-running (>400 generations) *Drosophila* populations selected for ethanol tolerance, with unselected controls, that I plan to discontinue soon. These are described (or used) in the following papers:

Fry JD (2001) Direct and correlated responses to

selection for larval ethanol tolerance in *Drosophila melanogaster*. *J. Evol. Biol.* 14, 296-309. Fry JD, Bahnck CM, Mikucki M, Phadnis N, Slattery WC (2004) Dietary ethanol mediates selection on aldehyde dehydrogenase activity in *Drosophila melanogaster*. *Integr. Comp. Biol.* 44, 275-283. Fry JD, Donlon K, Saweikis M (2008) A world-wide polymorphism in Aldehyde dehydrogenase in *Drosophila melanogaster*: evidence for selection mediated by dietary ethanol. *Evolution* 62, 66-75. Yampolsky L, Glazko G, Fry JD (2012) Evolution of gene expression and expression plasticity in long-term experimental populations of *Drosophila melanogaster* maintained under constant and variable ethanol stress. *Mol. Ecol.* 21, 4287-4299.

If anyone is interested in using these populations for any purpose (analysis of correlated responses? reproductive isolation? gene expression changes?) please let me know, and I will be glad to send them.

Best regards,

Jim Fry University of Rochester

Jim Fry <james.fry@rochester.edu>

---

### ESEB outreach fund

#### \*ESEB Outreach Fund\*

The European Society for Evolutionary Biology (ESEB) welcomes applications to the ESEB Outreach Fund for projects that promote evolution-related activities. With a total annual budget of 15000 Euro, the goal of this initiative is to improve public knowledge about evolution globally.

Applications for funding will be accepted for educational initiatives that promote evolution, development of evolutionary material (books, films, websites) intended for a general audience, public outreach seminars, public exhibitions, etc.

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

– Ute Friedrich ESEB office Manager Le Biophore University of Lausanne CH-1015 Lausanne Switzerland Phone: +41 (0)21 692 4207 Email: office@eseb.org

European Society for Evolutionary Biology  
[www.eseb.org](http://www.eseb.org) office@eseb.org

---

### Looking for teaching material

Hi there!

I'll teach an introductory course in bioinformatics at Trent University next term for the first time and I'm looking for teaching material regarding the following topics:

1. Alignment (local/global; CLUSTALW, multiple sequence alignment),
2. NCBI/BLAST
3. Phylogenetics: Maximum-likelihood, Bayesian, Modeltest/model selection in phylogenetics
4. next-gen applications: Galaxy (I know that there are some tutorials on the website)

Since the course is targeting an audience with a general knowledge in biology, it would be great if someone could provide me with a few pointers, ppt slides, easy-to-understand examples, and lab exercises. Of course, everyone who provides material will be acknowledged accordingly in the course.

Very much appreciated!

Cornelya

Cornelya FC Kluetsch, Ph.D. Trent University Biology Department Peterborough, ON K9J7B8 Phone 705-748-1011 ext. 6334 Fax 705-748-1003 E-mail: cornelyaklutsch@trentu.ca

Cornelya Klutsch <cornelyaklutsch@trentu.ca>

---

### Phylogeny MorphologicalData Software answers

Hello all,

About a month ago, I made post seeking advice for free software for phylogenetic analysis of morphological data by undergraduate students and pasted below are the responses I received. Thank you all very much for your helpful suggestions.

Response #1

You can try out Mesquite or Mcclade; or also Brownie 2.1

Response #2

Try TNT: <http://www.zmuc.dk/public/phylogeny/-TNT/> It's also very quick.

Response #3

It is a deeply nontrivial matter, owing to most methods failing to correct for covariation between the characters.

But anyway they should look at the list at my "Phylogeny Programs" listing (Google that phrase) and look under "data types" where there is a sublist for continuous quantitative characters. For discrete characters there are programs in the parsimony category, and for Bayesian treatment of 0/1 traits there are programs by Mark Pagel (BayesPhylogenies) and John Huelsenbeck and Fredrik Ronquist (in MrBayes). And there is an MCMC program by me based on the threshold model for 0/1 traits in quantitative genetics. Its link is in my paper in *American Naturalist* a month or two ago.

J.F. — Joe Felsenstein

Response #4

You can use Nona combined with Winclada provided by Pablo Golloboff. It is free, friendly using and fast.

Response #5

it's been a while since I used it, but Mesquite is pretty good: <http://mesquiteproject.org/mesquite/-mesquite.html> Response #6

I teach undergraduate courses and I have trouble finding the perfect freeware for morphological phylogenetic analysis. In the meantime, I use Mesquite and give the students a very detailed instruction (in German) so they don't mess up. The problem with Mesquite is that it puts out the same topology as a bunch of trees that differ only by the location of the root, which is very confusing to the user. Also confusing is that Mesquite has so many options and different ways of doing the same thing. Aside from that it's a great program.

Response #7

(I will also make a suggestion; Biolinux. Just copy the files to a USB key, plug in the USB key and reboot. Then not only do you have lots of phylogenetic software but many other kinds of analysis software as well. Alternatively, web sites like Moblye from the Pasteur offer lots).

Matthew Leo Knope <[knopel@stanford.edu](mailto:knopel@stanford.edu)>

---

## Samples Aster Puccinellia Triglochin

I've developed microsatellite primers for European salt-marshes plant species. These species are *Puccinellia maritima*, *Triglochin maritimum* and *Aster tripolium*. I would like to test these primers for cross-species amplification in species of the same genera. Therefore I'm looking for samples of the genera *Aster*, *Triglochin* and *Puccinellia* that I could test. If you possess samples belonging to these genera, please contact me at:

[romuald.rouger@stir.ac.uk](mailto:romuald.rouger@stir.ac.uk) or +44 (0) 1786 467 787

Thank you very much!

Romuald Rouger School of Natural Science, BES, University of Stirling, STIRLING, FK9 4LA United Kingdom

– The University of Stirling is ranked in the top 50 in the world in The Times Higher Education 100 Under 50 table, which ranks the world's best 100 universities under 50 years old. The University of Stirling is a charity registered in Scotland, number SC 011159.

[romuald.rouger@stir.ac.uk](mailto:romuald.rouger@stir.ac.uk)

---

## Shipping dry DNA pellet answers

Thanks to all of you for your responses!

Please find below all the messages that I received. For the most part, people said that they have not experience problems shipping the dry pellet but some people expressed some concerns about the ability to resuspend overdried DNA after applying the speed-vacuum.

Cheers, Margarita

-----

We regularly ship dry DNA and it works very well.

EtOH precipitation and vacuum or air dry. Ship the pellet as is and rehydrate to use.

Hope this helps

Eric Parent Pêches et Océans / Fisheries and Oceans  
Institut Maurice Lamontagne/ Maurice Lamontagne

Institute 850 route de la mer Mont-Joli, Qc G5H 3Z4  
Canada

-----

Hi,

The company we currently use asks us to ship DNA in alcohol, but I think I did post some dry DNA pellet a long time ago.

Best, Maureen

-----

I don't know whether that helps but I used RNA stable (Biomatrica: <http://www.biomatrica.com/-rnastable.php>) to ship my RNA samples from Germany to the USA for a later microarray analyses - and it worked pretty well! I know that Biomatrica also offer "DNAstable" which - as I guess - should work similarly for DNA samples... For my RNA preparations I needed to speed vac - I guess it should be the same with DNA... As far as I remember you can download a pdf from the Biomatrica homepage which describes the procedures which are needed for preparing your samples - just have a look there...

Good luck!

Best,

Dörthe

Dr. Dörthe Becker Institute of Zoophysiology University of Münster, Germany

Hindenburgplatz 55 48143 Münster Germany

-----

We have good experience with freeze-dried samples. We received quite some genomic DNA samples from collaborators that way, but also normally primers are shipped freeze dried. I do not know about shipping pellets, but can tell you that we in rare cases air-dry pellets even over the weekend (but they are of course dry after a few hours) and they dissolve fine after the 2 days. So if the shipping is not too long, drying them and sending them should work as well. I would not recommend to speed-vac them completely dry. In my experience an overdried pellet dissolves only very hard and it's not perfect for the DNA, either. I would in any case try some mock samples first to see if it works for your amounts, pellet size, extraction method, shipping conditions, ...

Good luck!

Sabine

- PhD student Max-Planck-Institute for Chemical Ecology Department for Entomology Hans-Knoell-Str. 8 07745 Jena Germany

-----

it is fine to just ship tubes with the dry DNA pellet directly after DNA extraction; however, it would be best to re-suspend the pellet first to check the quality of the DNA before you send it. If you do this, then you can simply allow an aliquot of the re-suspended DNA to dry out at room temperature or speed vac under a low heat. It is not always necessary to go to the trouble of re-precipitating and drying the pellet (which also runs the risk of you losing some of your valuable DNA).

Hope this helps, Will G-C

-----

I've done this quite a bit and there's never been a problem. Drying with a speed-vac would be best but if you don't have one, then just letting it evaporate would be fine too. Probably best to put a tissue or something loosely over the top. You could put it in an incubator or heat block to speed that evaporation along but don't set it too warm, else it might affect (denature) the DNA - no more than 40 deg I reckon. Make sure it's totally dry before you seal it up and send it.

All the best, Niccy

Niccy Aitken Research School of Biology The Australian National University Canberra, ACT 0200. Australia

-----

You should not have problems sending dry DNA. I have even send DNA in solution through Fedex and the PCRs worked after been stored in the customs office for days! DNA is pretty stable, and when is dry you shouldn't expect much troubles.

cheers

sergio Dr. rer. nat. Sergio Vargas R.

s.vargas@lrz.uni-muenchen.de

sergio.vargasr@ecce.ucr.ac.cr

-----

I've heard the DNA can be hard to rehydrate after speed vac drying (I haven't tried so i dont know) It's my understanding that lyophilizing is better - that's how primers get shipped If you have access to a lyophilizer, its pretty easy - just practice with some colored water before drying your samples so you dont end up sucking the samples out of the tubes. the key is to make sure the samples never thaw

best diana

Diana Wolf phone:(907)474-5538 Associate Professor fax:(907)474-7666 Institute of Arctic Biology Dept. of Biology and Wildlife 311 Irving I 902 N Koyukuk Drive

University of Alaska Fairbanks Fairbanks, AK 99775-7000

-----

What is the size of the DNA which you need to send? If it's high molecular weight material and the downstream application is library construction or similar, it might not be a good idea to vacuum it. We've sent DNA

— / —

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

---

## Software DPPDIV new version

Dear Community,

We have just released an optimized and parallelized version of DPPDIV by Tracy Heath (see <http://mbe.oxfordjournals.org/content/29/3/939>)

The sequential performance has been optimized using SSE3 and AVX vector intrinsics.

The code has also been parallelized with OpenMP for multi-core systems.

The code is available for download at:

[www.exelixis-lab.org/software.html](http://www.exelixis-lab.org/software.html) Cheers,

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](http://www.exelixis-lab.org)  
[alexandros.stamatakis@gmail.com](mailto:alexandros.stamatakis@gmail.com)

alexan-

statistical selection of models of DNA substitution. The main new features are:

- High Performance Computing: model selection can be transparently executed in parallel in multicore desktop machines and in HPC clusters achieving large speedups.
- Hill-climbing hierarchical clustering: to explore the full set of 1624 GTR+I+G submodels, but optimizing at most 288 while maintaining accuracy.
- Heuristic filtering: reduction of the candidate models set based on a similarity filtering threshold
- Absolute model fit: information criterion distances can be calculated for the best-fit model against the unconstrained multinomial model
- Topological summaries: tree topologies supported by the different candidate models are summarized in the html log, including confidence intervals constructed from cumulative models weights, plus Robinson-Foulds and Euclidean distances to the best-fit model tree.
- User-friendly HTML log: the results of the model selection can be displayed in html format including maximum likelihood trees derived from each model and linked to <http://www.phylowidget.org4> for graphical depiction.

jModelTest2 is available under a GPL license at <http://code.google.com/jmodeltest2>. The user forum is located at <https://groups.google.com/forum/?fromgroups#!forum/jmodeltest>. jModelTest2 is described in Darriba D, Taboada GL, Doallo R, Posada D. 2012. jModelTest 2: more models, new heuristics and parallel computing. Nature Methods 9: 772. < <http://www.nature.com/nmeth/journal/v9/n8/full/nmeth.2109.html> > Although the main text is quite short, it comes with 15 pages of supplementary material including a thorough evaluation of performance and accuracy.

Please do not forget to cite Phyml when using jModelTest2: Guindon S and Gascuel O (2003). A simple, fast and accurate method to estimate large phylogenies by maximum-likelihood. Systematic Biology 52: 696-704.

All the best, D

– David Posada Facultad de Biología Campus Universitario Universidad de Vigo 36310 Vigo Spain

Phone: +34 986 812038 Cell: +34 647 343300 Fax: +34 986 812556 Email: [dposada@uvigo.es](mailto:dposada@uvigo.es) Web: <http://darwin.uvigo.es> [dposada@uvigo.es](mailto:dposada@uvigo.es)

---

## Software jModelTest2

---

## UGorgia EvolutionaryGenetics

Dear all,

We have released a new version of jModelTest2 for the

Please distribute to any undergraduates who might be interested:

Unique (and Low-Cost) Opportunity for Ten Undergraduates 2013 Ecological Genetics Field Study Abroad in China

#### FINAL YEAR OF PROGRAM

\*Learn Chinese and Ecological Genetics at the University of Georgia\*

With funding from NSF's Partnerships for International Research and Education (PIRE) program, we are offering 10 undergraduates (U.S. citizens or permanent residents only) the opportunity to participate in a unique research abroad opportunity in China during the spring and summer of 2013. This is the 5th year of the program and students have found it to be enormously rewarding. This will likely to be the last offering of this opportunity.

The research focus of our PIRE grant is a forensic biogeographic study of species that are native to China and invasive in the southeastern U.S. as well as a growing number of species native to the southeastern U.S. and invasive in China.

Each summer, we run a 6 week field course where we visit biological communities throughout China. After the field course, students continue in short-term research internships in our partner labs in China.

Students will need to be prepared to take full advantage of this experience. Therefore, during the spring semester, students must enroll at the University of Georgia (UGA) and take 3 courses; two in intensive elementary Mandarin Chinese and a laboratory course in genetics. No prior experience with Chinese language is required, although students should have had at least a course in introductory biology and preferably courses in ecology and evolutionary biology.

After 1 semester of Chinese, most of our students can operate quite well in China.

The cost to the student of the summer program is minimal: the grant covers travel to and within China, lodging and most meals. The student is responsible for health insurance, visa costs and personal expenses. Students are also responsible for the costs of enrolling at the University of Georgia for all required courses (12 credit hours) (all students are charged at the in-state tuition rate plus fees).

The deadline for applications is October 1, 2012. Applications for the 2013 program are available on our website: <http://www.genetics.uga.edu/pire/-undergrad.html>. We encourage any interested students to contact Dr. Mauricio for more information (mauricio@uga.edu).

cio@uga.edu).

Rodney Mauricio Program Director, UGA-China PIRE

Rodney Mauricio, Ph.D. Department of Genetics University of Georgia Athens, GA 30602-7223

Lab Web Page: <http://www.genetics.uga.edu/-mauriciolab=0APIRE> Grant Web Page: <http://www.genetics.uga.edu/pire>

mauricio@uga.edu

---

## UsedLabEquipment BelizeBiodiversity

Hello Everyone!

I am currently building up a science research/outreach program in Dangriga, Belize called BioBelize (Biodiversity Institute of Belize), [www.biobelize.org](http://www.biobelize.org). We provide inquiry based science instruction to students, but we also want to create a space for scientists to perform molecular work in Belize. We have currently completed one year and are expanding our scope for the future. We train local high school and university students in Belize in the basics of molecular biology techniques. We began by building a small invertebrate collection and are hoping to begin teaching students the basics of DNA barcoding once we can supply some basic molecular biology equipment. We believe that DNA barcoding is a great tool for getting students interested in science and it will give them the skills needed to pursue a path in evolutionary biology or biology related fields. Developing countries often lack the funds to build labs that can be accessed by science students, and while we are actively looking for funding, we are also reaching out to all of you to see if anyone has excess lab equipment they could donate to BioBelize to be used by local science students. We are interested in anything, but would really appreciate the essentials for a basic molecular biology lab: dry bath heat blocks, thermocyclers, microcentrifuge, micro-pipettes, 1.5 ml microcentrifuge tubes, microscopes, vortexers, gel electrophoresis systems, microcentrifuge tube racks, and UV transilluminators. If you have equipment, know someone who could help, or just have general comments, please contact me!

Thanks for taking a moment to read this request and I hope to hear from some of you, PS- We will add you or your lab to our supporters page at BioBelize.org

Stephen E. Harris - Ph.D Candidate Ecology,



Evolutionary Biology, and Behavior CUNY-  
The Graduate Center (614) 915-4686 har-  
ris.stephen.e@gmail.com <harris917@gmail.com>  
[www.stephenharris.com](http://www.stephenharris.com) [www.biobelize.org](http://www.biobelize.org) Stephen  
Harris <harris.stephen.e@gmail.com>

---

### Vial samples

I'm planning to preserve a very large number of beetle larvae in 95% ethanol for later paternity analysis. In the past I have kept each larva in its own eppendorf

tube, but that would be overly time consuming for this quantity of individuals.

I would like to place entire families of larvae, ~40 individuals each, together into larger vials. I'd very much appreciate it if anyone could weigh in on how likely the samples are to be contaminated with the DNA of their siblings. To clarify these will be whole individuals, rather than tissue samples, and they will be rinsed with fresh ethanol before DNA extraction.

Best wishes,

Michael Caldwell

caldwell@umn.edu

mpod3@hotmail.com

---

### PostDocs

AuburnU FishWildlife PopGenetics .....	82	UFlorida EvolutionaryGenetics .....	97
AuburnU FishWildlife PopGenetics 2 .....	82	UGeorgia Phylogeography .....	97
Biocant Portugal Bioinformatic .....	83	UHawaii CollectionDigitization .....	98
CSIRO Canberra EvolutionInvasiveness .....	83	UK France PopulationDynamics .....	99
CityUNewYork PopulationGenomics .....	84	ULiverpool PathogenEvolution .....	99
DurhamU PinnipedEvolution .....	85	UMaryland EvolutionaryBiol .....	100
FloridaState ExperimentalEvolution .....	85	UMinnesota EpigeneticNaturalVariation .....	100
France CornEvolutionaryGenomics .....	86	UMontana BacterialEvolutionaryGenetics .....	101
HongKong PDF GradStd WildlifeAdaptation .....	86	UMontpellier EvolutionCancer .....	101
INRADijon France Biodiversity .....	87	UNeuchatel EvolutionRhizosphere .....	102
ImperialCollegeLondon 2 SpeciationGenomics .....	88	UNottingham SticklebackEvolution .....	102
KansasU InvertBiodiversity .....	89	UOtago Biodiversity .....	103
MaxPlanckInst Plon FunctionalGenomics .....	89	UOxford EvolutionaryGenomics .....	103
MichiganStateU EvolutionBEACON .....	89	UPierreMarieCurie AntEvoDevo .....	104
NewcastleU PlantEvolutionaryGenet .....	90	UPierreMarieCurie EvolutionaryEcol .....	105
NorthCarolinaStateU ModelingPopGenetics .....	91	UPorto AvianBreeding .....	105
OhioStateU EvolutionPlantDomestication .....	92	UStAndrews DrosophilaEvolution .....	106
PennState MitochondrialMutations .....	92	UStAndrews EvolutionSexAllocation .....	107
Postdoc:ImperialC London InfectionPopulationGe- nomics .....	93	USussex EvolutionaryGenetics-SexualDimorphism	107
RutgersU PopulationGenetics .....	94	UTorontoMississauga Systematics .....	108
SheffieldUniversity PopulationGenetics .....	94	UTurku Finland EvolutionaryGenomics .....	108
Switzerland ComputationalBiol .....	95	UValencia Biodiversity .....	109
UBayreuth Germany PlantSystematics .....	95	UVirginia EcologicalGenomics .....	109
UEdinburgh ViralPathogenEvolution .....	96	UWindsor Canada EnvGenomics .....	110
UExeter AntagonisticCoevolution .....	97	UWisconsinMadison EvolutionaryGeneticsGenomics	111

Vienna EvolutionaryBotany .....	111
WashingtonStateU EvolutionPesticideResistance .	112
WayneStateU 2 EvolutionGeneRegulation .....	113

---

## AuburnU FishWildlife PopGenetics

Auburn University Department of Fisheries and Allied Aquacultures

Research Assistant II/III - Research Associate I/II (Population Genetics)

**\*\*This position is located at the United States Fish and Wildlife Service's Conservation Genetics Lab in Warm Springs, GA.\*\*** **\*\*This is a one year limited term appointment. Continuation of employment is contingent on availability of funding.\*\*** The Department of Fisheries and Allied Aquacultures of the College of Agriculture at Auburn University is seeking candidates for the position of Research Assistant/Associate. The successful candidate in this position is expected to work on various projects pertaining to population genetics of aquatic organisms and environmental DNA detection of aquatic invasive species in the southeastern United States. Essential functions include, but not limited to: DNA extraction and quantification; PCR and qPCR, genotyping of microsatellites and mtDNA sequencing; data analysis of population genetic data, report writing, and presentation of findings at professional meetings.

Designation as a Research Assistant requires a Bachelor's degree from an accredited institution in Biology, Zoology, or related field plus two years of experience in conservation genetics research. Designation as a Research Associate requires a Master's degree in Biology with a research emphasis in conservation genetics. Excellent interpersonal communication skills are required. Candidate selected for this position must be able to meet eligibility requirements for work in the United States by the start date and continue working legally for the proposed term of employment. Please attach a cover letter and resume to the on-line application. Only COMPLETE applications will be selected for consideration of the position.

Excellent computer skills in using programs such as Excel, R, and ArcGIS, STRUCTURE, GENEPOP, and parentage analysis software are desired.

Minorities and women are encouraged to apply.

Refer to Requisition #24348 and apply on-line at:

[www.auemployment.com](http://www.auemployment.com) on any computer with internet access. If you need any assistance, contact Auburn University's Department of Human Resources at (334) 844-4145. Internet access is also available through your local state employment service office and public library.

Review of applications will begin after September 21, 2012.

Auburn University is an Affirmative Action/Equal Opportunity Employer.

Denise Smith <[smithm8@auburn.edu](mailto:smithm8@auburn.edu)>

---

## AuburnU FishWildlife PopGenetics

### 2

Auburn University Department of Fisheries and Allied Aquacultures Research Fellow I/II (Population Genetics)

**\*\*This position is located at the United States Fish and Wildlife Service's Conservation Genetics Lab in Warm Springs, GA.\*\*** **\*\*This is a one year limited term appointment. Continuation of employment is contingent on availability of funding.\*\*** The Department of Fisheries and Allied Aquacultures of the College of Agriculture at Auburn University is seeking candidates for the position of Research Fellow. The successful candidate in this position is expected to develop methods and protocols for the environmental DNA detection of aquatic invasive species in the southeastern United States. Essential functions include, but not limited to: DNA extraction and quantification, PCR and qPCR, and mtDNA sequencing, statistical design and care for aquarium and pond trials, collection of eDNA water samples, data analysis of genetic data, report writing, and presentation of findings at professional meetings.

The minimum qualifications are a PhD from an accredited institution in Biology or related field with an emphasis in conservation genetics or molecular ecology. Excellent interpersonal communication skills are required. Candidate selected for this position must be able to meet eligibility requirements for work in the United States by the start date and continue working legally for the proposed term of employment. Please

attach a cover letter and resume to the on-line application. Only COMPLETE applications will be selected for consideration of the position.

Excellent computer skills in using programs such as Excel, ArcGIS, and R are desired.

Minorities and women are encouraged to apply.

Refer to Requisition #24349 and apply on-line at:

[www.auemployment.com](http://www.auemployment.com) on any computer with internet access. If you need any assistance, contact Auburn University's Department of Human Resources at (334) 844-4145. Internet access is also available through your local state employment service office and public library.

Review of applications will begin after September 21, 2012.

Auburn University is an Affirmative Action/Equal Opportunity Employer.

Denise Smith <[smithm8@auburn.edu](mailto:smithm8@auburn.edu)>

---

## Biocant Portugal Bioinformatic

### PostDoctoral Fellowship

The application to a Post-Doctoral Fellowship is opened at the Advanced Services Unit of Biocant, Association for Transfer Technology, in Cantanhede, Portugal.

#### Candidate's Profile

Ph.D in bioinformatics, computational biology, molecular biology or related field with experience in management of large datasets, experience in multiple sequence alignment (preferably with high-throughput sequencing data, 454 and Illumina), transcriptomic and genomic data and in-depth expression analyses and experience with gene and protein prediction.

Programming experience in Perl, Python, Java/C++, Bash, SQL language (MySQL, PostgreSQL) and statistical packages (R). Strong background in Linux system administration and facilities operations. Proficiency administering core servers, computer clusters and storage systems running a variety of Operating Systems (e.g. RedHat, Ubuntu, Windows) hosting a variety of services (e.g. Apache, DNS, IMAP, NFS, SMTP).

Fellowship Duration: The Fellowship will have the duration of 24 months, with an yearly contract, starting on October 2012. The second year contract is dependent on evaluation of the work developed after the first

year.

With my best regards,

Sílvia Cardoso

Imagem assinatura-mail

Biocant - Associação de Transferência de Tecnologia

Parque Tecnológico de Cantanhede, N.º 04, Lote 3, 3060 - 197 Cantanhede Telef.: 231 419 040 | Fax: 231 419 049 | E-mail: [silvia.cardoso@biocant.pt](mailto:silvia.cardoso@biocant.pt)

Silvia Cardoso <[silvia.cardoso@biocant.pt](mailto:silvia.cardoso@biocant.pt)>

---

## CSIRO Canberra EvolutionInvasiveness

OCE Postdoctoral Fellow - What makes some genotypes invasive?

\* An esteemed early career fellowship \* Work in a leading scientific institution with dedicated professionals \* Join CSIRO - Australia's premier science and technology research organisation

#### The Position:

As the postdoctoral fellow you will apply ecological genomics approaches to understanding the genetic basis of invasiveness in the *Bemisia tabaci* (whitefly) species complex. Your project will focus primarily on the globally invasive Middle East-Asia Minor 1 (commonly known as B biotype) member of the cryptic species complex, and will benefit from access to a range of sister species already characterized for several biological traits potentially related to invasiveness.

You will have primary responsibility for developing and designing collection efforts, biological experimentation and genetic studies of multiple populations from around the world. You will be responsible also for developing and maintaining strong collaborations with researchers in China, UK, USA and Israel. The team you will join at CSIRO Ecosystem Sciences has expertise in population biology, ecology and functional genomics.

Specifically you will:

\* Lead the development of the research program studying *Bemisia* invasiveness \* Undertake research on the global population diversity of invasive genotypes in both the home and invaded range \* Work closely with collaborators in other countries and spend time in their labs \* Present results in a meaningful format and write

scientific papers for publication

Location: Canberra, Australia Salary: \$78K to \$85K plus up to 15.4% superannuation Ref no: ACT12/03842  
Tenure: 36 month specified term

To be successful you will have:

\* A PhD, or will shortly satisfy requirements for a PhD. Owing to the terms of the fellowship, candidates must not have more than 3 years relevant Post-Doctoral experience. \* Demonstrated experience in biological experimentation and population/evolutionary genetics. \* Demonstrated ability to identify, develop and pursue novel research approaches. \* Demonstrated ability to achieve results \* Ability to publish the results of scientific research in scientific journals and present research at national/international conferences.

About CSIRO: Australia is founding its future on science and innovation. Its national science agency, CSIRO is a powerhouse of ideas, technologies and skills for building prosperity, growth, health and sustainability. It serves governments, industries, business and communities across the nation. Find out more! [www.csiro.au](http://www.csiro.au). About CSIRO Ecosystem Sciences: CSIRO Ecosystem Sciences is a globally significant centre for sustainability science. It brings together many of CSIRO's ecologists, social scientists, agricultural scientists, environmental biotechnologists, systems experts and urban scientists. It applies a multidisciplinary scientific approach to help ensure the sustainability of Australia's agricultural and forestry systems, built environments, biodiversity, and rural and urban communities and industries. To find out more, go to [www.csiro.au/Organisation-Structure/-Divisions/Ecosystem-Sciences.aspx](http://www.csiro.au/Organisation-Structure/-Divisions/Ecosystem-Sciences.aspx). Find out more! For further information and instructions on how to lodge your application, please visit our website at CSIRO Careers <http://csiro.nga.net.au/cp/index.cfm>, choose "Job Search" and insert Reference Number ACT12/03484 where indicated.

Kind Regards, Katie Wise Recruitment Consultant CSIRO Human Resources Phone: +61 2 62464045 [katie.wise@csiro.au](mailto:katie.wise@csiro.au) | [Recruitmentteam-ACT@CSIRO.au](mailto:Recruitmentteam-ACT@CSIRO.au) | [www.csiro.au](http://www.csiro.au) Katie.Wise@csiro.au

---

## CityUNewYork PopulationGenomics

POSTDOCTORAL RESEARCHER

City College of New York - City University of New York

Department of Biology

A 2 year postdoctoral researcher position is available in the new lab of Mike Hickerson, part of a group that includes the labs of Ana Carnaval, Rob Anderson and David Lohman. The goals of this position will be to develop and apply methods for complex demographic inference from genomic data collected from multi-species assemblages. The position represents an excellent opportunity to merge population genomic methodology with community ecology, with an advancement of theory and exploration of empirical data.

The postdoctoral research will entail developing new inferential methods to reconstruct the Pleistocene history of species assemblages and secondly to use these methods on population genomic data sets that range from Syngnathids (seahorses and pipefish), east African montane small mammals, and two natural insect communities of wasps and associated parasitoids. This latter project is in close collaboration with Prof. Graham Stone, Dr Konrad Lohse (University of Edinburgh), Prof. James Cook (University of Reading) and Prof Nick Barton (Institute of Science and Technology Austria).

The ideal candidate will be highly motivated with a strong background in either population genetics theory and/or analysis of next-generation sequence data. Interest in both coalescent theory and model-based inference are essential and preferably, the candidate will have experience in simulation-based analysis as well as scripting in command-line, R and Perl or Python. Candidates will be expected to have completed a PhD in Biology or a related field.

For an introduction to merging simulation-based population genetic analysis with community ecology, see Stone et al. (2012), *Current Biology* 22:1-6.

Interested candidates are invited to contact Mike Hickerson informally if they wish to discuss the projects and/or send a CV and statement of research interests to [mhickerson@gmail.com](mailto:mhickerson@gmail.com). Review of applications will begin immediately and continue until the position is filled. The Postdoctoral salary will be competitive to account for cost of living in NYC.

CUNY IS AN EQUAL OPPORTUNITY/EQUAL ACCESS EMPLOYER

Mike Hickerson Assistant Professor City College and the Graduate Center of CUNY Biology Department 160 Convent Ave New York, NY 10031 research - <http://www.nycep.org/faculty/michael-hickerson> <http://qcpages.qc.cuny.edu/Biology/Hickerlab/-index.html> [mhickerson@gmail.com](mailto:mhickerson@gmail.com)

---

## DurhamU PinnipedEvolution

Postdoctoral position: Historical Dynamics of Antarctic Pinniped Populations in the Context of Holocene Climate Change

The Institute of Marine Sciences at the University of California, Santa Cruz (UCSC), invites applications for a Postdoctoral Scholar under the primary direction of A. Rus Hoelzel (Professor, Durham University, UK; Research Associate, UC Santa Cruz). The successful candidate will participate in research involving population genetic analyses of ancient DNA from the mummified remains of Antarctic seals to assess and compare the historical population dynamics of four pinniped species (southern elephant seal, Weddell seal, crabeater seal and leopard seal) in the context of environmental change. The broader collaborative study will consider geologic, behavioural and isotopic data, while the researcher in this post focuses on historical population dynamics. The key objective for this post is to obtain sequence data for multiple loci (including both mtDNA and nuclear genomic loci) for a target number of 60-80 samples from each species, which will be independently dated. The initial phase of the project will be in the UK at Durham University for 12-18 months (depending on progress), and will focus on DNA extraction from ancient samples (using a well-established ancient DNA lab experienced with the same type of samples to be used in this study V see deBruyn et al. (2009) *PLoS Genetics* 5(7): e1000554) and next generation DNA sequencing. The final phase of the project will be in the US at UC Santa Cruz and will focus on the analysis of the sequence data and integration with environmental data in support of broader inference (6-12 months in duration), in collaboration with Paul Koch (Professor, UC Santa Cruz).

**RANK:** Postdoctoral Scholar V Employee

**SALARY:** Minimum \$47,500 annually, commensurate with qualifications and experience.

**MINIMUM QUALIFICATIONS:** Ph.D. in a related field; experience with next generation sequencing (NGS) technologies, and the analysis of those data using appropriate bioinformatic software; skills associated with the manipulation of sequence data and data generated by NGS processes using R and pearl script as required; some experience with PCR amplification from ancient DNA; experience with population genetic and

phylogenetic analytical software and the interpretation of those data; ability to work independently and as part of a team; strong communication and interpersonal skills.

**PREFERRED QUALIFICATIONS:** Experience with ancient DNA; experience with the program BEAST; post-doctoral experience relevant to the objectives of this project; a publication record including papers that include use of the required methodologies.

**POSITION AVAILABLE:** January 1, 2013, or as soon as possible after closing date. **Term of Appointment:** Initial appointment is for two years, full time, with possible reappointment for another year. Should the hiring unit propose reappointment, a review to assess performance will be conducted. For appointments within the University of California, the total duration of an individuals postdoctoral service may not exceed five years, including Postdoctoral service at other institutions. Under certain circumstances, a sixth year may be considered.

**TO APPLY:** Electronic submissions are preferred. Applicants should send: 1) Curriculum Vitae, 2) a cover letter describing relevant research experience, long-term research interests, and career goals (two pages maximum), and 3) contact information for three references (mailing and email addresses and phone numbers) to both a.r.hoelzel@dur.ac.uk and plkoch@ucsc.edu. Please refer to position PS-IMS in your correspondence

Alternatively, mail submissions may be sent to: Postdoctoral Search Committee Office of the Dean Division of Physical & Biological Sciences University of California 1156 High Street Santa Cruz, CA 95064

**CLOSING DATE:** Review of applications will begin on October 21, 2012. To ensure full consideration, applications should be complete by this date. The position will remain open until filled, but not later than 6/30/2013

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

---

## FloridaState ExperimentalEvolution

Postdoctoral position: Experimental viral evolution and biophysical adaptation

A postdoctoral position in experimental viral evolution is available in the laboratory of Dr. Darin R. Rokyta in the Department of Biological Science at Florida State University in Tallahassee, FL. This position is part of

an NIH-funded project designed to test theoretical predictions about pleiotropy, epistasis, and adaptation in ssDNA microvirid bacteriophages and to identify the mechanistic, biophysical bases for these phenomena. The successful candidate will use an array of laboratory experimental-evolution protocols designed to select for particular biophysical properties of viral capsids. Identified beneficial mutations will be used to study the relationships between these properties and growth rate and to measure epistatic interactions between mutations at the phenotypic and fitness levels. Empirical work will be mirrored by theoretical and computational, molecular-dynamics-based studies in collaboration with Wei Yang in the Department of Chemistry and Biochemistry at Florida State University.

A Ph.D. in biology or a related field is required. Preference will be given to candidates with experience in molecular or microbial evolution or to candidates with strong theoretical or computational backgrounds. A mix of these skills would be ideal. The position is for an initial period of two years with the potential to be extended for up to two additional years. Each application should be submitted as a single pdf file and include a CV, a summary of research accomplishments and future research objectives, and the names and contact information for two to three professional references. Application materials should be sent electronically to Darin Rokyta (drokyta@bio.fsu.edu). Review of applications will begin October 8, 2012, and continue until a suitable candidate is identified. This position is available immediately, but the start date will be flexible. Florida State University is an Affirmative Action / Equal Opportunity Employer.

drokyta@bio.fsu.edu

---

### France Corn Evolutionary Genomics

We are seeking a highly motivated postdoctoral researcher to work within an ANR-funded research consortium (<http://www.amaizing.fr/index.php>) on the evolutionary history of European corn. This research will focus on describing the forces that shaped maize diversity in Europe, including recent demographic and selective history. The project includes the sequencing of a hundred genomes using NGS technology. It will be headed by Maud Tenaillon with continuous collaboration with Stephane Nicolas at the UMR de Genetique Vegetale du Moulon (Equipe GEAR, [\[moulon.inra.fr/index.php/en/team/gear\]\(http://moulon.inra.fr/index.php/en/team/gear\)\). The position requires experience in population genomics and the development of appropriate statistical and simulation tools for detecting signatures of selection. Skills in NGS data handling would be greatly appreciated. Funding is available for one year, and can be extended for another year \(monthly salary including health insurance and after taxes will be around 1,700 euros\). The starting date is flexible but will ideally be during winter-spring 2013. Informal inquiries prior to formal application are welcome. Applicants should apply by December 1st, 2012 and send the following: \(1\) A curriculum vitae, \(2\) Names of 2 referees willing to provide a letter of recommendation upon request, \(3\) A brief statement of how your research goals fit with the project, to \[tenaillon\\\_at\\\_moulon.inra.fr\]\(mailto:tenaillon\_at\_moulon.inra.fr\) and \[snicolas\\\_at\\\_moulon.inra.fr\]\(mailto:snicolas\_at\_moulon.inra.fr\).](http://-</a></p>
</div>
<div data-bbox=)

Maud Tenaillon, CNRS UMR de genetique vegetale Ferme du Moulon 91190 Gif sur Yvette France  
Phone : +33 (0)1 69 33 23 34 Fax : +33 (0)1 69 33 23 40 [http://moulon.inra.fr/pages\\_pers/tenaillon/-index.html](http://moulon.inra.fr/pages_pers/tenaillon/-index.html) For evolmol working group: <http://-www.biologie.ens.fr/eceem/evolmol> Maud Tenaillon <[tenaillon@moulon.inra.fr](mailto:tenaillon@moulon.inra.fr)>

---

### HongKong PDF GradStd WildlifeAdaptation

Postgraduate and Postdoctoral Vacancies in Ecological Demography

The University of Hong Kong is looking to recruit at the postgraduate and postdoctoral levels with projects which seek to understand 'How wildlife populations respond and adapt to environmental change'.

The projects will be based in the Laboratory of Wildlife Demography, School of Biological Sciences, but will involve interactions with other departments in the Faculty of Science and beyond. The projects will combine insights from several disciplines, most notably ecology, evolutionary biology, demography, statistics, and climatology. There will be an emphasis on understanding how changing climatic conditions can affect wildlife population processes. Attention will be given to the ecological consequences of change in not just average temperatures but also in other aspects of climate such as inter-annual variability. The projects will involve analysis and interpretation of long-term wildlife population data, including data on wetland birds. More information can be found at <http://www.biosch.hku.hk/->

[dthomson/home.html](http://www.hku.hk/~dthomson/home.html) . Applicants should have good academic track records with a relevant university degree. The projects will require the ability to develop not just an interest in ecology, but also strong analytical skills and the full range of abilities needed to follow an interdisciplinary research project through to fruition. Versatility and excellent communication will be required as the projects will involve the comprehension, synthesis and presentation of ideas from quite different fields. The University of Hong Kong operates in English, and language fluency is a requirement.

Applications should include a CV with a statement of academic interests and relevant experience, full academic transcripts for all qualifications, a list of any publications, and the contact details of 3 referees. Applications should be submitted by e-mail (apply-wildlife-demography-2012@hku.hk) to Dr. David L. Thomson.

Review of applications will begin right away, continuing until decisions have been made and recommendations on all available positions have been passed to the respective university committees for approval.

Postdoctoral appointments: funding is already available and appointments can commence as soon as possible after a formal offer has been made by the university and once the candidate has been awarded their degree of PhD.

Postgraduate appointments (funding available in competition): scholarship positions are available from the university in open competition, and strong candidates will receive the necessary endorsement and assistance with that process. That endorsement should be sought now as the applications for those scholarships need to be submitted by 1st December for the main round. There are further clearing rounds in May and September. Those appointments will normally be taken up at the start of the coming academic year after a formal offer has been made and after award of an undergraduate degree. See <http://www.hku.hk/gradsch/web/> for more information on postgraduate scholarships.

The University of Hong Kong ranks among the worlds top 25 universities and is recognised as the best university in Asia. Appointments are internationally competitive and the successful candidates will have access to all that is needed to work effectively and live comfortably in Asias world city. Further information is available at <http://www.hku.hk> Dr. David L. Thomson Associate Professor School of Biological Sciences University of Hong Kong Kadoorie Biological Sciences Building Pok Fu Lam Road Hong Kong

Tel./Fax (+852) 22990665 Mobile (+852) 66265350

E-mail: [dthomson 'at' hku.hk](mailto:dthomson@hku.hk)

Website: <http://www.biosch.hku.hk/dthomson/home.html> Visit <http://www.hku.hk> to learn more about why the University of Hong Kong is ranked among the world's top 25 universities and as one of the best in Asia

[dthomson 'at' hku.hk](mailto:dthomson@hku.hk)

---

## INRADijon France Biodiversity

POST-DOC at INRA, France

Topic: Which criteria to optimise weed multifunctionality across landscapes?

The position will be based in INRA Dijon with regular visits to INRA Toulouse. Potential candidates should contact Sabrina Gaba, Nathalie Peyrard or Régis Sabbadin directly: [sabrina.gaba@dijon.inra.fr](mailto:sabrina.gaba@dijon.inra.fr) [nathalie.peyrard@toulouse.inra.fr](mailto:nathalie.peyrard@toulouse.inra.fr) [regis.sabbadin@toulouse.inra.fr](mailto:regis.sabbadin@toulouse.inra.fr)

The selected candidate and the group at INRA will build a detailed research project which will subsequently be evaluated by Agreenskills. The Agreenskills selection procedure can be viewed on their website below. <http://www.agreenskills.eu/agreenskills-cms/> Research proposal description:

There has been a growing interest in maintaining ecological services in agricultural landscapes since the release of the Millennium Ecosystem Assessment (2005) and the policies (e.g. Plan Ecophyto 2018). However, many issues still remain to be tackled to fully integrate the concept of services into everyday landscape planning, management and decision-making. In particular, the quantitative relationship between biodiversity, (agro)ecosystem processes, services and land use is still poorly understood. In agroecosystems, weeds provide goods and services i.e. pollination but also disservices as they induce yield loss due to competition with crops. Therefore, an agroecological weed management strategy has to face a trade-off between food provisioning and regulation services provided by weeds. One way to resolve this trade-off is to design spatio-temporal management strategies at the scale of the landscape and evaluate their impact on the capacity of the landscape to provide services.

This post-doc is devoted to the evaluation of such strategies, which requires to :

- 1.

develop criteria and indicators evaluating the different (possibly conflicting) services provided by weeds, as well as the constraints bearing on weeds management actions (cropping systems, labor and material resources...). These criteria and constraints may hold at different spatial scales, but do not involve weeds dynamics.

2.

model the spatio-temporal dynamics of the weeds/crop/human system under some fixed weed management strategies at the landscape scale.

The criteria, constraints and dynamics models will be mathematically formalized and used jointly to build a management strategy evaluation tool. An experimental (/in silico/) comparison of existing and expert weed management strategies will be led.

A PhD project will start in October 2012 on new methods for the design of strategies for the management of spatio-temporal processes. The PhD student will exploit the postdoc work on criteria/constraints, while both will have to cooperate on the elaboration spatio-temporal models and the experimental evaluation of the strategies.

Nathalie Peyrard <Nathalie.Peyrard@toulouse.inra.fr>

---

## ImperialCollegeLondon 2 SpeciationGenomics

Imperial College London

Division of Ecology and Evolution

Faculty of Natural Sciences

2 Research Associates in Speciation Genomics

Salary: £32,100 - £36,610 per annum

This is an exciting opportunity for two Research Associates with an interest in Speciation Biology to carry out cutting edge research investigating the mechanisms of speciation using genomics techniques.

The posts are funded until 31 December 2013 by the European Research Council and will be based at the Silwood Park Campus. A further extension of up to one year is possible, subject to the availability of funds. The successful candidates will work closely with Professor Vincent Savolainen (holder of the ERC Advanced Grant) and his Research Group.

The main research objective is to disentangle processes and mechanisms, e.g. among neutral evolution, selective constraint, and adaptive evolution, that can lead to the evolution of new species. The *Howea* palms are one of our model systems (e.g. see Nature 441:210; PNAS 108:13188), but other plants and animals on islands will be included. You will employ advanced modelling and statistical tools in molecular population genetics and/or genomics, to explore the speciation mechanisms in island taxa. This work will complement genomic, laboratory and experimental work undertaken by other Research Associates in Dr Vincent Savolainen's Group.

Specifically, we are looking for two Research Associates to work on the following:

- \* comparative genomic analysis of two palm species from Lord Howe Island
- \* comparative gene expression analysis of these sister species in relation to speciation scenarios
- \* analysis of ddRAD genotypes for the construction of association maps between phenology and genetic loci
- \* comparative phylogenetic analyses on other islands (Cocos, Norfolk)

Applicants must have a PhD (or equivalent) in evolution, ecology, genetics or a closely related discipline. Strong expertise in genomics (such as ddRAD, genome assembly, transcriptome assembly, and/or gene expression analysis from NGS data), proficiency in statistics, advanced modelling techniques are essential as well as knowledge of Geographic Information Systems (GIS). You must also have knowledge of speciation biology, in depth experience of working in speciation biology and experience of management and analysis of complex genetic data. A publication record in top-class journals in evolutionary biology, ecology or genomics is essential.

You must have experience of working in a team, and in a multi-disciplinary environment, the ability to develop and apply new concepts and have a creative approach to problem-solving. You must also have excellent verbal and written communication skills and be able to write clearly and succinctly for publication.

Further details of the research group can be obtained from the research group website: <http://www3.imperial.ac.uk/people/v.savolainen> 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 2012 192 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 on 020 7594 2207 or email [d.anderson@imperial.ac.uk](mailto:d.anderson@imperial.ac.uk) to request an application



form.

Closing date: 8 October 2012

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

Jenny Thomas Senior HR Administrator Faculty of Natural Sciences

Imperial College London, Level 2, SAF Building, Exhibition Road, London, SW7 2AZ

T: 0207 594 1733 F: 0207 594 3797

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

---

## KansasU InvertBiodiversity

The Division of Invertebrate Paleontology in the KU Biodiversity Institute seeks a 2-year, full time, postdoctoral associate with experience and interest in invertebrate paleontology and bioinformatics to work on an Advancing the Digitization of Biological Collections grant covering invertebrate fossils. Required qualifications include a PhD in geology, systematics, paleontology or closely related field, working knowledge of the taxonomy and identification of invertebrate fossils, experience databasing natural history collections, experience managing projects, and demonstrated communication skills. For additional information and complete application instructions visit <https://jobs.ku.edu>, position # 00209886 or contact Bruce S. Lieberman [blieber@ku.edu](mailto:blieber@ku.edu). To apply complete the online application and attach cover letter, curriculum vitae, and contact information for 3 professional references. Review begins 1 Nov. 2012. Equal Opportunity Employer M/F/D/V.

“Lieberman, Bruce S” <[blieber@ku.edu](mailto:blieber@ku.edu)>

---

## MaxPlanckInst Plon FunctionalGenomics

Postdoctoral position: Functional genomics of eco-evolutionary feedback dynamics, Max-Planck-Institute for Evolutionary Biology, Plön (Germany).

A postdoctoral position is available at the Community Dynamics group at the Max Planck Institute for Evolutionary Biology (<http://www.evolbio.mpg.de/-comdyn>). The position is part of a project to study eco-evolutionary feedback dynamics using plankton communities. The successful applicant will be working on the genotype-phenotype interactions in our experimental predator-prey and host-parasite system (using transcriptome and genome analysis). The overall aim is to link gene, trait, populations and community dynamics to improve our understanding of ecology and evolution and their feedback.

Highly motivated candidates with a Ph. D. degree in evolutionary biology or ecology with a strong record of scientific publications are welcome to apply. A background in evolutionary genomics, bio-informatics or population genetics is highly desirable.

Our group is part of the Max Planck Institute for Evolutionary Biology in Plön. The institute offers a stimulating international environment and an excellent infrastructure allowing for the most recent techniques. The town of Plön is in the middle of the Schleswig-Holstein lake-district within a very attractive and touristic environment near the Baltic Sea, close to the university towns of Lübeck and Kiel.

Starting dates are flexible, from November 2012 onwards. The position is funded for 2 years. Informal enquiries can be made to [lbecks@evolbiol.mpg.de](mailto:lbecks@evolbiol.mpg.de). Applicants should send their CV, list of publications, statement of research interests, and contact information of 2 referees as a single PDF to Lutz Becks ([lbecks@evolbiol.mpg.de](mailto:lbecks@evolbiol.mpg.de)). In the cover letter, applicants should describe their background in evolutionary biology and experience with genomic data. Review of applications will continue until the position is filled. The Max Planck Society is an equal opportunity employer.

Lutz Becks <[lbecks@evolbio.mpg.de](mailto:lbecks@evolbio.mpg.de)>

---

## MichiganStateU EvolutionBEACON

\*BEACON Center for the Study of Evolution in Action\*

\*BEACON Distinguished Postdoctoral Fellows Program\*

\*\*

BEACON is an NSF Science and Technology Center headquartered at Michigan State University with partners at North Carolina A&T State University, University of Idaho, University of Texas at Austin, and University of Washington. BEACON brings together biologists, computer scientists, and engineers to study evolutionary dynamics using biological and computational techniques and to apply evolutionary principles to engineering problems. We seek outstanding post-doctoral scholars to pursue interdisciplinary research on evolution in action with BEACON faculty members, in the fields of biology, computer science, and/or engineering.

Applicants will propose a research project within the scope of BEACON's mission and must have two BEACON faculty sponsors who will serve as research mentors should the fellowship be awarded. At least one sponsor must be from the MSU faculty; the other sponsor may be from any of the five BEACON institutions. Preference is given for interdisciplinary research. The postdoc fellow will be based at Michigan State University in East Lansing. Please see our website (<http://www.beacon-center.org>) for information about BEACON's mission, participants and ongoing research projects.

Applicants must submit the following, in a single PDF, to BEACON Managing Director Danielle Whittaker via email ([djwhitta@msu.edu](mailto:djwhitta@msu.edu)):

1. CV
2. A two-page description of their research plan
3. A one-page summary of their doctoral research
4. Letters of support from two BEACON sponsors (at least one must be from MSU)
5. Two additional letters of recommendation

Fellowships include a salary of \$50,000/year and modest funds to support research and travel. The successful applicant will help foster collaborations among faculty and disciplines and serve as a professional model for pre-doctoral trainees.

A Ph.D. in biology, computer science, engineering or related fields is required. Current MSU graduate students or postdocs are not eligible for this fellowship. Minority applicants are especially encouraged to apply. MSU is an Equal Opportunity/Affirmative Action Employer.

The deadline for applications is December 15 of each year. Finalists will be invited to give research seminars in January/February, and the award will be announced in late February.

– Danielle J. Whittaker, Ph.D. Managing Director BEACON Center for the Study of Evolution

in Action Biomedical and Physical Sciences Building 567 Wilson Road, Room 1441E Michigan State University East Lansing, MI 48824 (517) 884-2561 [djwhitta@msu.edu](mailto:djwhitta@msu.edu) <http://beacon-center.org> “Danielle J. Whittaker” <[djwhitta@msu.edu](mailto:djwhitta@msu.edu)>

---

## NewcastleU PlantEvolutionaryGenet

Deadline for applications: 31st August

Postdoc position in Plant Evolutionary Genetics at Newcastle University, UK. We are looking for an enthusiastic postdoc for a 3-year NERC-funded research project entitled: 'Inter-genomic conflict in gynodioecy and its effects on molecular evolution of mitochondrial genomes in the genus *Plantago*'.

The applicant will be based in Kirsten Wolff's group in the School of Biology, Newcastle University, and will collaborate closely with Deborah Charlesworth's group at the Institute of Evolutionary Biology, University of Edinburgh, where an additional postdoc will be part of the same project.

This project will use molecular evolutionary approaches to investigate the maintenance of cytonuclear polymorphisms in gynodioecious plants in the genus *Plantago*, to test whether an 'arms race' situation prevails, versus long-term balancing selection. In the project we will be obtaining and analysing DNA sequences of multiple nuclear and mitochondrial genes, to compare diversity, and test for long-term balancing selection. Non-gynodioecious species will be studied, as well as gynodioecious ones, to provide outgroups for sequence analyses and to test whether the high diversity expected under long-term balancing selection is confined to the gynodioecious species. The project also includes testing for paternal inheritance/leakage by testing for heteroplasmy in natural populations of *P. lanceolata*, using analyses of mitochondrial DNA sequence haplotypes and studies of offspring of reciprocal crosses to assess the possibility that within-species polymorphism could explain the highly elevated mutation rates estimated in *Plantago* lineages.

The work will be divided between Edinburgh and Newcastle. For example, the Edinburgh group will concentrate on the nuclear genes, while the Newcastle group will obtain the mitochondrial genes, while other work is shared. Field work and greenhouse work will predomi-

nantly be done by the Newcastle postdoc.

Applicants must have completed their PhD before starting the position. Applicants should have some experience with molecular genetic techniques, and an interest in population genetics.

Further information can be obtained through vacancy information available on the Newcastle University web site, reference number D1082R. On the web site <http://www.ncl.ac.uk/vacancies/> use this reference number in your vacancy search and when applying for the job.

Applications must be submitted through this electronic system. The closing date is: 31st August. Short listing will take place in the week of 3rd September and interviews are planned for the end of the week of 10th September.

The start date is 1 October 2012 or as soon as possible thereafter.

For informal enquiries contact Kirsten Wolff by email at [Kirsten.wolff@ncl.ac.uk](mailto:Kirsten.wolff@ncl.ac.uk) or by phone on 0191 222 5626 or 0191 246 4852 (note that Kirsten will be absent from 9th August)

Dr Kirsten Wolff Reader in Evolutionary Genetics Newcastle University, School of Biology Ridley Building, room 573 and Devonshire Building 5th floor Newcastle NE1 7RU, UK Phone: 0191 222 5626/0191 246 4852 email: [kirsten.wolff@ncl.ac.uk](mailto:kirsten.wolff@ncl.ac.uk) [www.staff.ncl.ac.uk/kirsten.wolff/](http://www.staff.ncl.ac.uk/kirsten.wolff/) Kirsten Wolff <[kirsten.wolff@newcastle.ac.uk](mailto:kirsten.wolff@newcastle.ac.uk)>

---

## NorthCarolinaStateU ModelingPopGenetics

Postdoc: Mathematical Modeling of Dengue Virus Epidemiology

**PROJECT DESCRIPTION:** The incumbent will work on an NIH-funded project that will build, test and refine stochastic, spatially explicit, simulation models that link insect population dynamics and genetics with human disease epidemiology. We aim to develop a city-scale model for the transmission of dengue virus, utilizing rich entomological, epidemiological and human movement data sets from a research collaboration focused in Iquitos, Peru. A major goal of the work is to predict the impacts of various interventions (such as conventional mosquito control, vaccines, and evolution-based novel transgenic mosquito management methods)

on dengue. The culmination of the project will be the execution of a large-scale mosquito control study and a comparison between observed and model-predicted dynamics.

Our major new modeling efforts will be to develop the epidemiological component of our model and to increase the spatial scale of our mosquito population dynamics/genetics models. We are also interested in building simple spatial and non-spatial, deterministic models as heuristic tools for better understanding basic principles, but we are not looking for applicants who are only interested in working with simple, generic models.

An important part of our project involves field experiments to acquire data that will inform the structure and parameterization of the models, and a large-scale mosquito control study to provide data against which model predictions will be tested. This position could involve analysis of these and other data, so statistical experience, particularly involving parameter estimation and/or uncertainty quantification, would be beneficial. The person in this position will have the opportunity to travel to Peru and assist in design of field experiments. Some hands on field-work is also possible.

The funding for this postdoctoral position is through an NIH research grant. However, our group also has an NSF-IGERT graduate training grant titled "Genetic Engineering and Society: The case of transgenic pests". Six students in the first IGERT cohort are focusing on mosquitoes and dengue. The person in this postdoctoral position will have the opportunity to work with the students and faculty involved in the IGERT program. (See <http://geneticengsoc.ncsu.edu/> )

**Qualifications:** Training in ecological or epidemiological modeling and experience with development of computer simulation models. Experience in C++ would be highly desirable, as would be statistical skills.

**To apply:** email a cover letter and CV to [Fred.Gould@ncsu.edu](mailto:Fred.Gould@ncsu.edu) and [alun\\_lloyd@ncsu.edu](mailto:alun_lloyd@ncsu.edu)

For more details on the project see the following publications:

Magori, K., M. Legros, M. Puentes, D. A. Focks, T. W. Scott, A. Lloyd, F. Gould. 2009. Skeeter Buster: a stochastic, spatially-explicit modeling tool for studying *Aedes aegypti* population replacement and population suppression strategies. *PLoS Negl Trop Dis* 3(9): e508. doi:10.1371/journal.pntd.0000508

Xu, C., Legros, M., Gould, F, Lloyd, A. L. 2010. Understanding Uncertainties in Model-Based Predictions of *Aedes aegypti* Population Dynamics. *PLoS Negl. Trop. Dis.* 4(9): e830. doi:10.1371/journal.pntd.0000830

Legros, M., Magori, K., Morrison, A.C., Xu, C., Scott, T.W., Lloyd, A.L., Gould, F. 2011. Evaluation of location-specific predictions by a detailed simulation model of *Aedes aegypti* populations. PLoS ONE 6(7), e22701. doi:10.1371/journal.pone.0022701

Gould, F., K. Magori, Y. X. Huang 2006 Genetic strategies for controlling mosquito-borne diseases. American Scientist. 94 (3): 238- 246.

fred\_gould@ncsu.edu

---

## OhioStateU EvolutionPlantDomestication

Post-doctoral position

Impact of plant domestication on the evolution of plant-associated organisms

Ohio State University

Review of applications beginning October 8

We seek a postdoctoral researcher to join an interdisciplinary project studying the impacts of plant domestication on the evolution of plant-associated organisms. The genetic bottlenecks that accompany selective sweeps profoundly affect the levels of genetic diversity found in domesticated plant species, while also affecting loci underlying important morphological, physiological, ecological, and biochemical characteristics. The dramatic change in the genetic diversity of plant hosts can also have cascading effects on genome evolution in the community of associated organisms. In the long term, this project seeks to identify the genes that led to domestication-induced adaptive divergence and speciation in both plant and plant-associated organisms.

Our project focuses on chile pepper (*Capsicum annuum*) as a model system to understand the molecular basis of coevolution at multiple scales—from the genome to the organism, and, eventually, the community. *C. annuum*, one of the most diverse species within its genus and cultivated world-wide, includes nearly 50 recognized types that range from the mildest bell pepper to the hottest cayenne. The focus region of the study will be Mexico, which is *C. annuum*'s center of domestication, where its progenitor (*Capsicum annuum* ssp. *glabriusculum*) grows in wild and semi-cultivated settings. Research questions will relate to: *C. annuum* population genetic diversity along environmental and domestication gradients; adaptation, population

genomics and ecological speciation of insect host races, fungi and oomycetes; and tri-trophic interactions.

We seek applicants with an interest in evolutionary biology and experience using a range of techniques from quantitative and molecular genetics, genomics, and/or bioinformatics to answer ecological and evolutionary questions. Skills related to genome annotation, detection of genomic loci and/or regions under artificial or natural selection, or other ecological genomic techniques are a plus. The successful candidate will hold this position for two years with the possibility of an extension pending funding. Applicants should be interested in spending significant time in Mexico on collecting trips in conjunction with Mexican collaborators. Command of the Spanish language is also a plus. This postdoctoral position will be part of a cluster hire by the Center for Applied Plant Sciences (CAPS; caps.osu.edu/). Review of applications will begin on October 8, 2012 and continue until a satisfactory candidate is found. The position can start as soon as January, 2013.

Candidates interested in this position should refer to the search website (caps.osu.edu/caps-post-doctoral-researcher-search) or contact Donnalyn Roxey (roxey.3@osu.edu) for further information about the search and how to apply. For specific information about the research, contact Esther van der Knaap (vanderknaap.1@osu.edu), Andrew Michel (michel.70@osu.edu), Kristin Mercer (mercer.97@osu.edu), Leah McHale (mchale.21@osu.edu), or Tom Mitchell (mitchell.815@osu.edu).

Kristin L. Mercer, Assistant Professor Department of Horticulture and Crop Science The Ohio State University [www.hcs.osu.edu/mercerlab](http://www.hcs.osu.edu/mercerlab) 310D Kottman Hall 2021 Coffey Rd. Columbus, Ohio 43210

mercer.97@osu.edu phone: 614-247-6394 fax: 614-292-7162

“Mercer, Kristin” <mercer.97@osu.edu>

---

## PennState MitochondrialMutations

Are you interested in evolution and do you have skills in molecular biology? The Makova lab ([http://www.bx.psu.edu/makova\\_lab/](http://www.bx.psu.edu/makova_lab/)) is looking to hire a postdoctoral researcher with lab experience and knowledge of molecular genetics for a project examining mitochondrial mutations and their transmission in

humans (e.g., see our recent publication: <http://genomebiology.com/content/12/6/R59>). With new sequencing technologies, the other human genome, contained in mitochondria, is suddenly accessible to us. This gives us a terrific opportunity to explore previously inaccessible evolutionary processes and probe the biology of this organelle. Such knowledge is vital in a clinical setting when transmission risk for pathogenic mutations must be estimated. Our resources and links with medical researchers at Hershey Medical School and with computational biologists from the Galaxy team (<http://galaxy.psu.edu/>) put us in a great position to address these questions.

Candidates should be familiar with general lab techniques in molecular biology and should have a broad understanding of molecular biology and molecular genetics. Familiarity with next-generation sequencing platforms is desirable. A good understanding of computational analyses is a bonus.

You will be joining an established dynamic group. We are part of the Center for Medical Genomics (<http://www.huck.psu.edu/center/medical-genomics>) and of the Center for Comparative Genomics and Bioinformatics (<http://www.bx.psu.edu/>). Penn State is a vibrant scientific community with particular strengths in computational genomics and molecular evolution. Our location, in State College, Pennsylvania, is known for excellent schools and numerous opportunities for outdoor activities.

The starting date is flexible, with an earlier date preferred. Interested applicants should send a pdf with a CV, a statement of research interests, and contact information of three referees to Kateryna Makova at [kmakova@bx.psu.edu](mailto:kmakova@bx.psu.edu), indicating 'postdoc' in the subject line.

Kateryna Makova, Ph.D. Professor Center for Medical Genomics Department of Biology 305 Wartik Lab Penn State University University Park, PA 16802 Tel: 814-863-1619 Fax: 814-865-9131 E-mail: [kmakova@bx.psu.edu](mailto:kmakova@bx.psu.edu) Web: [http://www.bx.psu.edu/makova\\_lab/](http://www.bx.psu.edu/makova_lab/) Kateryna Makova <[kmakova@bx.psu.edu](mailto:kmakova@bx.psu.edu)>

---

**Postdoc:ImperialC London  
InfectionPopulationGenomics**

IMPERIAL COLLEGE LONDON POPULATION

GENOMICS OF EMERGING INFECTIONS DPT.  
INFECTIOUS DISEASE EPIDEMIOLOGY

Salary Range £28,200 - £40,720 per annum

Three year post

Applications are invited to join the Department of Infectious Disease Epidemiology located at the St Mary's campus, Paddington. The department is based within a five star research institute equipped with the latest technologies and facilities. DIDE is arguably the largest grouping of infectious disease epidemiologists in the world with a very wide range of skills represented, from experimental studies on bacterial/fungal pathogens, through population genetics and infectious disease modelling to field work on emerging infectious disease. As such, the Department offers excellent research facilities and a friendly, intellectually stimulating, working environment.

Emerging fungal infections are attracting increasing scientific and policy interest as their impact on human and ecosystem health becomes more pronounced (see Nature 484 2012). This Research Associate post is funded by a 3-year MRC project grant, entitled 'An evolutionary population genomics approach to determine the genetic basis of virulence in the pathogenic fungus *Cryptococcus neoformans*', and seeks to understand the evolutionary basis underlying this pathogen's emergence as a leading cause of human disease in Africa and South East Asia.

The post holder will join a multidisciplinary team of researchers that are using statistical genetic and functional genomic approaches to identify the patterns and processes that have led to contemporary distributions of genetic diversity for emerging pathogenic fungi, with a focus on *Cryptococcus*. The post-holder will have a key role in study design and will develop a state-of-the-art bioinformatics pipeline for assembling next-generation sequence data from a global panel of environmental and clinical *Cryptococcus* isolates. These data will be used for statistical genetic, phylodynamic and evolutionary analyses with the ultimate goal of defining the subset of genetic diversity that is associated with virulence and spatial-expansion of key lineages of *Cryptococcus*. Key responsibilities will be to develop cutting-edge approaches to managing large eukaryote population genomics datasets, and to liaise with our international collaborators in order to effectively share and curate genome-data.

The successful candidate will have a strong bioinformatic, evolutionary or statistical genetics background with a PhD degree or equivalent in a relevant quantitative subject.

This post is a full time and fixed term until 31st July 2015.

For informal enquiries please contact Dr. Matthew Fisher (matthew.fisher@imperial.ac.uk).

Our preferred method of application is online via our website. Please complete and upload an application form as directed.

<http://www.jobs.ac.uk/job/AFE774/research-associate/> Reference number: SM151-12

CLOSING DATE: 21 October 2012

matthew.fisher@imperial.ac.uk

---

## RutgersU PopulationGenetics

Postdoctoral Position in Statistical Population Genetics at Rutgers University

A postdoctoral position in population genetics is available in the lab of Jody Hey, at Rutgers University. The research will involve adapting coalescent models to problems in population divergence, as well as developing statistical methods for fitting divergence models to data sets. These methods will be used to study problems in the divergence of human populations, as well as in other systems.

Candidates with research experience in any the following will be considered:

- Population Genetics Theory - Coalescent modeling
- The use of stochastic methods for likelihood and Bayesian computation (e.g. MCMC, Gibbs Sampling etc)
- Statistical Phylogeography - Divergence Population Genetics

In addition it is important that candidates have considerable experience in programming using C/C++ or a similar low-level language.

The position can begin as early as January, 2013.

Applications should email a CV and any other relevant information to Jody Hey [hey@biology.rutgers.edu](mailto:hey@biology.rutgers.edu)

The Hey lab is on the Busch Campus of Rutgers University. This is in central New Jersey, just outside of the city of New Brunswick - a small cosmopolitan city within commuting distance (by car or train) of Manhattan.

Jody Hey Professor, Department of Genetics Rutgers University Nelson Biological Labs (rm B326) 604 Alli-

son Rd. Piscataway, NJ 08854-8082

732-445-5272 [hey@biology.rutgers.edu](mailto:hey@biology.rutgers.edu) <http://genfaculty.rutgers.edu/hey/home> "Hey, Jody"  
<[Hey@dls.rutgers.edu](mailto:Hey@dls.rutgers.edu)>

---

## SheffieldUniversity PopulationGenetics

Applications are invited for the following postdoctoral research assistant position:

Job Reference Number: UOS005309 (<http://www.shef.ac.uk/jobs>)

Contract Type: Fixed Term for 2 years, with a possibility of a further 12 months subject to funding

Institution: Department of Animal and Plant Sciences, University of Sheffield

Salary: Grade 7 (£28,401 - £31,020 per annum)

Earliest starting date: 1 January 2013

Initial closing Date: 25th October 2012

The postdoc will be working with Dr Kai Zeng on a project funded by the Biotechnology and Biological Sciences Research Council (BBSRC) to study the joint effects of natural selection and genetic linkage on genome-wide patterns of diversity. A variety of projects can be pursued under this general theme, from more theoretical to more data-oriented. The overall aim is to develop a better understanding of the relative importance of various forms of selection (e.g., background selection, hitchhiking), as well as their interactions with other evolutionary forces (e.g., demographic changes), in evolution. This project involves close collaboration with the groups of Professor Brian Charlesworth and Professor Peter Keightley at the University of Edinburgh.

We are seeking a highly-motivated researcher with a PhD in evolutionary genetics, population genetics or bioinformatics who has a strong interest in addressing the above questions by analysing large-scale data sets (including a high-quality population genomic data set produced by the Keightley lab) and/or by developing new methods. Applications from those who have a PhD in related disciplines (statistics, computer science, mathematics, physics, etc) are also welcomed\*. Existing experience in data analysis (including computer programming) and modelling would be an advantage.

The Department of Animal and Plant Sciences at the University of Sheffield houses a vibrant team of leading evolutionary biologists (<http://www.sheffield.ac.uk/-aps>). In the latest Research Assessment Exercise (RAE 2008), Biological Sciences at Sheffield was ranked 3rd in the UK.

Applications should be submitted online at <http://www.shef.ac.uk/jobs>, quoting the reference number UOS005309. The following documents are requested: a CV, a list of publications, a one-page statement of research interests and contact information of two referees.

Informal enquiries are also welcomed and should be directed to [k.zeng@sheffield.ac.uk](mailto:k.zeng@sheffield.ac.uk).

[k.zeng@sheffield.ac.uk](mailto:k.zeng@sheffield.ac.uk)

---

## Switzerland ComputationalBiol

A postdoc position with Daniel Wegmann and Jeffrey Jensen is available at the École polytechnique fédérale de Lausanne (EPFL) in Switzerland. The research will focus on the development and extension of numerical approaches such as Approximate Bayesian Computation (ABC) to tackle the longstanding problem of estimating demography and selection jointly from genetic data. These new tools will allow us to work towards answering one of the most controversial questions in evolutionary biology, namely the importance of adaptation in shaping genomic variation. We will approach these questions by inferring genome-wide selection coefficients from unique data sets currently being generated of four organisms representing various selective and demographic histories: Deer mice (*Peromyscus maniculatus*), HCM viruses, *Drosophila melanogaster* and humans.

To develop and apply these new tools, we are seeking a highly motivated candidate with a strong background in bioinformatics, computer science, statistics, and/or computational biology. The candidate should bring experience in programming, preferentially in C++ and at least one scripting language. Knowledge in population genetics is a plus. The successful candidate will be working in a highly interactive and stimulating environment and is expected to collaborate with people from several different labs, on and off campus.

The EPFL offers excellent facilities for research and recreation. The working language in the group is En-

glish, which is also widely used in Switzerland. The candidate will be a member of the Swiss Bioinformatics Institute (SIB) and benefit from SIB training courses and networking. The city of Lausanne is located on Lake Geneva, less than 30 minutes from the Alps, and is a small but vibrant and well-connected city offering superb living standards.

The position is for up to 3 years with a highly competitive salary in the range of 80K CHF per year. The position will be filled as soon as an ideal candidate is found.

To apply, please submit your CV including a list of publications and the contact information of at least two references to [daniel.wegmann@epfl.ch](mailto:daniel.wegmann@epfl.ch). Please do not hesitate to contact us for further information.

[daniel.wegmann@epfl.ch](mailto:daniel.wegmann@epfl.ch)

---

## UBayreuth Germany PlantSystematics

Dept. of Plant Systematics, University of Bayreuth  
Postdoctoral Research Position in Plant Systematics  
Application deadline: 15.11.2012

We are seeking a highly motivated candidate with a strong background in Plant Systematics. Successful candidates have their research focus preferably in phylogenetics and phylogeography, with a strong link to evolutionary biology, or organismic interactions involving plants. A major requirement is an excellent background in statistics and computers. Other requirements are good knowledge and experience in field work as well as in molecular methods applied in plant phylogenetics and population ecology (e.g. next-generation sequencing, fingerprinting). The successful candidate should have an excellent publication record and experience with grant acquisition and teaching. The candidate is encouraged to apply for grants in Germany or abroad. The position comes with a teaching requirement of 5hrs per week/ semester. Teaching shall be performed in the BSc program "Biology" and the MSc program "Biodiversity and Ecology". The development of a module, if possible including field work, is desirable. Teaching of bachelor students has to be performed in German. Consequently, a willingness to learn German is required.

The contract shall start earliest at 01.01.2013, a later start date is negotiable. The position will initially be restricted to 3 years. Extension to further 3 years is

possible. The possibility for habilitation is given.

The University of Bayreuth advocates gender equality. Women are therefore strongly encouraged to apply. Equally qualified severely handicapped applicants will be given preference.

Qualified candidates should send a curriculum vitae (no more than two pages), a list of publications (including reprints of the three most important publications), a description of research interests and future work, and names with email addresses of two referees no later than 15.11.2012 by email as a single pdf-file to Prof. Dr. Sigrid Liede-Schumann (sigrid.liede@uni-bayreuth.de). Information regarding our present activities can be found at <http://www.pflanzen-systematik.uni-bayreuth.de/> or by contacting Prof. Liede-Schumann.

Prof. Dr. Sigrid Liede-Schumann Universitaet Bayreuth Lehrstuhl fuer Pflanzensystematik 95440 Bayreuth Germany

PD Dr. Ulrich Meve Lehrstuhl für Pflanzensystematik Universität Bayreuth 95440 Bayreuth

Tel. 0049(0)921-552452 Fax 0049(0)921-552786

ulrich.meve@uni-bayreuth.de

---

## UEdinburgh ViralPathogenEvolution

A postdoc position is available to work with Andrew Rambaut and other members of the PREDEMICS consortium on the molecular evolution and epidemiology of RNA viruses of epidemic potential. Informally, please contact me for further information but all applications should be made on-line:

[http://www.jobs.ed.ac.uk/-vacancies/index.cfm?fuseaction=3Dvacancies.detail&vacancy\\_ref=3016276&go=GO](http://www.jobs.ed.ac.uk/-vacancies/index.cfm?fuseaction=3Dvacancies.detail&vacancy_ref=3016276&go=GO)

Further details are also given on the above link.

Job description: This post requires a computational biologist with skills in software development, bioinformatics and molecular phylogenetics or molecular epidemiology. The post will entail building sequence analysis methodologies to answer evolutionary and epidemiological questions of the key zoonotic viral pathogens listed below. The core project will be to develop existing molecular epidemiological tools (in particular the BEAST package) into a semi-automated analy-

sis pipeline which can rapidly provide epidemiological characterization of newly emerged epidemics. Particular emphasis will be on addressing problems of statistical phylogenetic analysis of very large-scale molecular data sets flowing from next generation sequencing technologies. The post will involve close collaboration with other members of the consortium including computational biologists, epidemiologists and virologists.

Background: Preparedness, Prediction and Prevention of Emerging Zoonotic Viruses with Pandemic Potential using Multidisciplinary Approaches (PREDEMICS)

PREDEMICS is a European Framework 7 funded consortium of 17 participant institutions.

Summary of the PREDEMICS project: The capacity of zoonotic RNA viruses to emerge as major agents of human disease can appear limitless. Current intervention strategies have demonstrated limited success. Rapid, innovative and effective solutions are needed to reduce the apparently accelerating process of zoonotic disease emergence. We will study the following zoonotic viruses with epidemic potential in Europe: influenza virus, hepatitis E virus, viruses of the Japanese encephalitis serocomplex and lyssaviruses. These diverse viruses arise from the main reservoirs and vectors of potentially emerging viral diseases and use the three major routes of transmission: respiratory, faecal-oral and vector borne. Inter-disciplinary studies will generate valuable data on patterns of crossing the species barrier, transmission and disease emergence, including ecological and anthropological factors which determine virus availability and opportunities for exposure and infection. We will unravel the complex biological interactions between the virus and the recipient hosts that drive the viral adaptation and elucidate the factors determining the ability of the viruses to spread to and between humans (including pandemic spread). Furthermore, immune mechanisms of protection and novel prevention strategies will be investigated. Data will be compiled in a unique and freely accessible data-sharing platform to build a framework for analysing the drivers of pathogen emergence. Modelling, building on the analysis of key data, will focus on the extent to which pathogen trajectories are predictable and will identify high-risk situations and environments. This will allow improvement of disease surveillance, control, preparedness and intervention. Training in leading European Universities, as well as exchanges of approaches and data sharing with national and international health organisations will strengthen European position in this global challenge.

Essential: PhD in an appropriate discipline. Experience in computational biology, molecular phylogenetic-



ics, molecular epidemiology, or statistical approaches in molecular evolution.

Desirable: Interest in infectious diseases. Programming skills in Java, C++, Python or similar.

Andrew Rambaut Professor of Molecular Evolution Institute of Evolutionary Biology University of Edinburgh Ashworth Laboratories Edinburgh EH9 3JT EMAIL - a.rambaut@ed.ac.uk TEL - +44 131 6508624

a.rambaut@ed.ac.uk

---

## UExeter AntagonisticCoevolution

We are looking to hire a postdoctoral research associate on a 3-year project on parasite modulation of metabolism.

An astonishing outcome of the antagonistic coevolutionary dynamics between host and parasite is the evolution of parasite ability to interfere with host physiology. The molecular details of such interference is poorly understood, limiting our ability to decipher parasite virulence and its evolution.

A major component of parasite mediated 'host reprogramming' targets host metabolism and thereby results in improved parasite growth. A particularly striking example of this is the ability of several viruses to increase the rate of glycolysis in infected cells by up to 370%. More elaborate modulations include, for example, the alteration of lipid and GTP biosynthesis. These findings strongly indicate that a full understanding of host-pathogen interaction and pathogen-caused disease states require a holistic view that considers host and the pathogen as a single system.

This project will concentrate on the interaction of *Burkholderia pseudomallei* and *Francisella tularensis* with human macrophages. Utilizing metabolic modeling together with phenotypic profiling and flux measurements, we will achieve a better understanding of how these parasites manipulate their host and cause disease. The ultimate aim is to develop better strategies of combating intracellular parasites and developing robust analysis approaches at the host-parasite systems level.

To apply, please send your CV, covering letter (detailing your motivation) and the details of three referees to Orkun S. Soyer by 1st of October quoting the job reference P43554 in any correspondence.

For more information, see group web site at; <http://osslab.ex.ac.uk/> Orkun S. Soyer, PhD Senior Lecturer in Systems Biology Engineering, Mathematics and Physical Sciences University of Exeter

URL: <http://osslab.ex.ac.uk/> Tel: +44 (0)1392 723615 "Soyer, Orkun" <O.S.Soyer@exeter.ac.uk>

---

## UFlorida EvolutionaryGenetics

Postdoctoral researcher evolutionary genetics ([http://bioinformatics.ufl.edu/McIntyre\\_Lab/](http://bioinformatics.ufl.edu/McIntyre_Lab/)) at the University of Florida. Two new positions are available. One position is focused on Maize and the response to climate change, the other is a study of *Drosophila* response to ethanol. A background in quantitative, population or evolutionary genetics is required. Both positions will be primarily focused on data analysis. This is a wonderful training opportunity for the geneticist with an affinity for quantitative work, and the desire to broaden their skills in data analysis. For the Maize project, seasonal data collection is expected. For the *Drosophila* position there are facilities and support for individuals wanting to continue molecular work. The McIntyre lab is a small group with two PhD students, one current PDF, a senior research manager and one undergraduate researcher. The lab is a supportive environment where team work is encouraged. Postdoctoral fellows develop as independent scientists and have all the resources needed for a successful independent career. Mentoring for the development of analytical skills and professional development are a strength of the group. Individuals should have strong writing skills and a willingness to collaborate widely. For enquiries contact Lauren McIntyre ([mcintyre@ufl.edu](mailto:mcintyre@ufl.edu)). To apply: send a CV, statement of professional goals and a pdf of a publication to Lauren McIntyre ([mcintyre@ufl.edu](mailto:mcintyre@ufl.edu)).

[mcintyre@ufl.edu](mailto:mcintyre@ufl.edu)

---

## UGeorgia Phylogeography

UNIVERSITY OF GEORGIA DEPARTMENT OF GENETICS

2 POSTDOCTORAL POSITIONS IN INVASIVE

## SPECIES PHYLOGEOGRAPHY

A have 2 postdoctoral positions available in my lab. Although I am particularly interested in an individual with skills in phylogeography, I would also consider an individual more broadly interested in the ecological genetics of invasive species (see <http://www.genetics.uga.edu/mauriciolab/> and <http://www.genetics.uga.edu/pire/> for more details).

I am interested in hiring someone with background in evolutionary or ecological genetics and with excellent bench skills. The ideal candidate will be organized, pay close attention to detail, and be able to work both independently and in collaboration with others. In particular, the candidate may work closely with Dr. Travis Glenn on next-gen approaches. Independent side projects on the part of the postdoc are encouraged and will be supported intellectually and financially if feasible. A Ph.D. is required.

There also may be an opportunity for this postdoc to gain independent teaching experience (for extra pay) by teaching a small, 1-credit, discussion section for our undergraduate evolutionary biology course each semester.

There is some flexibility in start date, but preference will be given to individuals who can start immediately. The initial appointment is for one year, with an additional year of funding available conditional on satisfactory performance. The annual salary for this position will be commensurate with experience, and includes benefits. The University of Georgia is an Equal Opportunity Employer and I encourage applications from candidates from groups underrepresented in the life sciences.

Please send me an e-mail ([mauricio@uga.edu](mailto:mauricio@uga.edu)) with the following information: a statement detailing your interest and qualifications for the position, a proposed start date, a CV, and the names and contact information for 2 people who could write on your behalf.

Rodney Mauricio, Ph.D. Department of Genetics University of Georgia Athens, GA 30602-7223

Lab Web Page: <http://www.genetics.uga.edu/mauriciolab=0APIRE> Grant Web Page: <http://www.genetics.uga.edu/pire>

[mauricio@uga.edu](mailto:mauricio@uga.edu)

\*University of Hawaii Insect Museum Digitization project\*

The University of Hawaii Insect Museum <http://www.ctahr.hawaii.edu/peps/museum/index.htm> is actively seeking qualified applicants for a two year post-doctoral

(Junior Researcher) position to coordinate digitization of the holdings of the collection. The UHIM will become a contributing member of InvertNet ( <http://invertnet.org/>) allowing for full access to the unique data held in our museum.

The successful applicant will have a PhD in Entomology or a related field and prior experience working in a Research Collection. Experience withspecimen databasing and curation in an entomology or other natural history collection are also needed skills.

> \*Pre-requisites\*: PhD filed or received in Entomology or related field and prior, demonstrated, experience in research collection curation and specimen databasing.

> \*Duties\*: Postdoc will be responsible for leading an NSF-funded digitization project to upload and make available all specimen data held in the 240,000 specimens in the UHIM. UHIM will be joining the pre-existing Invertnet database, and Postdoc will be responsible for coordinating this effort. Specific duties will include managing the acquisition of specimen pictures and collection label information, and interacting with the InvertNet team to ensure that deadlines are met. Additionally, postdoc will be responsible for supervising a team of undergraduate research assistants and providing mentorship to undergraduate and graduate students in the lab. Applicant must be comfortable working independently and with others, and able to follow through with a large-scale digitization project on a clear schedule.

\*Minimum qualifications\*

PhD in entomology or related field and demonstrated experience with museum curation and databasing.

\*Salary\*: FTE .90, equal approximately to 45,000 per year, plus benefits

For more information, please email Prof. Dan Rubinoff [rubinoff@hawaii.edu](mailto:rubinoff@hawaii.edu),

Daniel Rubinoff <[rubinoff@hawaii.edu](mailto:rubinoff@hawaii.edu)>

---

## UK France PopulationDynamics

Post-doctoral position with the Game & Wildlife Conservation Trust (GWCT) in UK and France

Modelling the dynamics of Atlantic salmon populations for the Morfish project

Position available from October 2012 to March 2015

With recent collapses in salmon populations there has been pressure to gain an understanding of the causes and patterns associated with population change in salmon. Much of this understanding relates to changes in the biological characteristics of salmon populations and their relationship to environmental change. There is also great concern for the future of southern European stocks of salmon which are seen as under threat from recent and future changes to climate. Currently, the partners (INRA Rennes and GWCT) hold a large amount of under-exploited data of the biological attributes of past and present salmon populations and associated environmental variables, extending over 30 years. There may be potential to use data sets collected on other rivers particularly from the UK. The Morfish 2 project will aim to exploit and interpret the data sets held by the partners and others providing model outputs useful for managing salmon populations, particularly as it relates to the southern European populations in the Manche zone, making them more readily available for use in larger scale modelling of salmon populations and facilitating the transfer of information from data-rich rivers to data-poor rivers.

The Post-doc will be based at GWCT in UK, but will spend time in France (INRA, Rennes) as follows: 6 months in each of the first 2 years and 3 months in the last year. His supervision and guidance will be completed jointly by Anton Ibbotson and Jean Marc Roussel. The post-doc and supervisors will meet twice a year throughout the 3 year position. Whilst the post-doc will largely work on the data sets described above he should ensure that he does not work in isolation from other UK and French organisations that collect and make use of similar data. In the UK this will involve consultation and regular contact with the Environment Agency and Cefas developing collaborative working arrangements with these groups and ensuring that the findings from these cross-border investigations are used to inform national assessments and management. To this end a nominated person from the En-

vironment Agency will assist in the supervision of the post-doc.

The post-doc will have the following objectives: (A) To collate all data held by INRA and GWCT on salmonid populations and the environmental variables associated with those populations and establish an appropriate database; (B) to align the temporal and unit basis of that data to ensure it is directly comparable (C) Where there is historical scale material stored, assess the potential for and then extract further useful data on life-histories and freshwater and marine growth rates from circuli distances (D) Develop population models to identify biological, climate and other drivers of salmon population abundance, keeping in mind the aim of developing models that can be applied more generally to data poor rivers (E) Make recommendations to national bodies, responsible for monitoring salmon stocks in the programme area UK and France in relation to monitoring stock status for salmon in those countries.

Requirements:

The successful applicant will have completed his/her doctoral thesis and have a proven skill in statistical, Bayesian or mathematical modelling. Since they will have to deal with staff in France and the UK he/she will have a working knowledge of both French and English languages.

For further details about the work and the salary and benefits please contact:

Dr Dylan Roberts

Head of Fisheries, Game & Wildlife Conservation Trust - Delfryn, LLangadog, Carmarthenshire, SA19 9BG Tel: 01550777910 Mob: 07968586538 droberts@gwct.org.uk

Please send a CV and covering letter to Dr Dylan Roberts by 28<sup>th</sup> September 2012. Interviews will be in the week beginning October 9<sup>th</sup> 2012.

Website: [www.gwct.org.uk](http://www.gwct.org.uk) Guillaume.Evanno@rennes.inra.fr

---

## ULiverpool PathogenEvolution

[http://www.liv.ac.uk/working/job\\_vacancies/-research/R-574196.htm](http://www.liv.ac.uk/working/job_vacancies/-research/R-574196.htm) Closing date for receipt of applications: 5 October 2012

We are seeking an enthusiastic, dedicated postdoctoral Research Associate to investigate the processes that

shape the evolution of *Pseudomonas* infections using high-throughput sequence data from clinical samples and laboratory models. You will demonstrate the ability to perform bioinformatic analysis on genomic data to make biological inference. This project represents an exciting opportunity to link evolutionary biology and microbiology, to promote patient health, and to join a strong genomics research group. You should have a PhD in biology or computational biology and relevant experience. The post is available for 30 months from 1 December 2012.

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

---

## UMaryland EvolutionaryBiol

National Socio-Environmental Synthesis Center (SESYNC) Postdoctoral Fellowship Program Applications due November 1, 2012 Please visit [www.sesync.org/programs/postdocs](http://www.sesync.org/programs/postdocs) for further details

The National Socio-environmental Synthesis Center (SESYNC), located in Annapolis, Maryland, invites applications for 2 year postdoctoral fellowships that begin February 2013. Fellows will undertake independent social, environmental, or cyber-infrastructure synthesis projects that are consistent with the mission of SESYNC. In addition to leading independent synthesis research, SESYNC fellows spend much of their time (~30%) on collaborative center activities, which could include such efforts as working with a Pursuit team, working on a cross-Pursuit or cross-Theme synthesis project, organizing a workshop, developing an education, policy, or outreach activity, or exploring visualization and other cyber tools.

SESYNC postdoctoral fellows will be based in our facilities in Annapolis, Maryland, with the possibility of spending some time at our partner organization, Resources for the Future, located in Washington, DC. SESYNC offers substantial computational support for fellows, as well as a dynamic, collaborative learning environment. Postdocs will receive an annual stipend, full University of Maryland employee benefits, and a small annual travel allowance for meetings. Fellows will have two mentors-V a professional mentor on-site at SESYNC and a domain mentor. The domain mentor

should be at a SESYNC partner institution or be an established scholar elsewhere who will travel to SESYNC at least twice a year to work with the fellow.

**ELIGIBILITY** We seek a diverse group of postdoctoral fellows with PhDs in social and natural sciences. Areas of previous research should be relevant to socio-environmental synthesis or synthesis education, including anthropology, computer science, ecology, evolutionary biology, education, economics, geography, history, mathematics, political science, psychology, public policy, planning, sociology, statistics, etc.

**APPLICATION DEADLINE AND SUBMISSION PROCESS** The deadline for applications for fellowships is November 1, 2012 for fellowships beginning in February 2013. The next round of competition will be in the spring for fellowships beginning in late August, 2013.

Applications will require a research proposal, description of interests and ideas for collaborative center activities, description of cyber-infrastructure needs, CV, and three letters of reference (submitted separately). Potential international Postdoctoral Fellows should contact us before applying. Please visit [www.sesync.org/programs/postdocs](http://www.sesync.org/programs/postdocs) for submission instructions. For questions, please contact Dr. David Hawthorne at [dhawthorne@sesync.org](mailto:dhawthorne@sesync.org).

The University of Maryland is an Equal Opportunity Employer Minorities and Women Are Encouraged to Apply

Cynthia A. Wei, PhD Assistant Director of Education and Outreach National Socio-Environmental Synthesis Center (SESYNC) 1 Park Place Suite 300/Annapolis, MD 21401 Phone: 410-919-4991 Email: [cwei@sesync.org](mailto:cwei@sesync.org)

Cynthia Wei <[cwei@sesync.org](mailto:cwei@sesync.org)>

---

## UMinnesota EpigeneticNaturalVariation

Could you please post this post-doctoral position at EvolDir? Thanks much,

Post-doctoral position available A post-doctoral position will be available this fall in Nathan Springer's lab (<http://www.cbs.umn.edu/labs/springer/>) at the University of Minnesota, Department of Plant Biology. The researcher will be hired to work on the NSF-funded project entitled "Causes and consequences of epigenetic

variation in maize.” The post-doctoral researcher will be involved in generating epigenome profiles for diverse maize inbreds and will study the features that contribute to epigenetic variation and the potential effects of epigenetic variation upon phenotype. The position will be collaborative in nature and will require interaction with several groups. This position will involve the generation and analysis of large-scale sequence based datasets. Applicants must have experience handling next-generation sequence datasets.

Applicants are expected to have a strong publication track record, exhibit a creative scientific approach in their work and strong communication skills. Interested applicants should submit their cover letter and resume and 3 references at <http://employment.umn.edu/applicants/Central?quickFind=106280>. Please include in the cover letter a description of your research interests and career goals. The position will initially be available for 1 year with renewal of up to an additional 2 years based on performance and funding.

– Nathan M Springer Associate Professor, Department of Plant Biology Director, Microbial and Plant Genomics Institute 250 Biosciences Center 1445 Gortner Ave Saint Paul MN 55108 612-624-6241 [springer@umn.edu](mailto:springer@umn.edu)

Nathan Springer <[springer@umn.edu](mailto:springer@umn.edu)>

---

## UMontana Bacterial Evolutionary Genetics

Postdoctoral Research Associate - Bacterial Evolutionary Genetics, University of Montana

A postdoctoral position focused on bacterial evolutionary genetics is available in the laboratory of Scott Miller at The University of Montana, Missoula. The position is part of an NSF-funded project to determine the genetic basis of divergence in environmental tolerance of natural populations of thermophilic cyanobacteria. The project involves using genetic manipulations of model bacterial systems to dissect the functional consequences of candidate loci identified with population genomics approaches. The successful candidate will demonstrate a strong background in molecular genetics and evolution. A Ph.D. in biology or a related field is required. Candidates with previous experience with model genetic systems of cyanobacteria or other bacteria are strongly encouraged to apply.

The Miller lab is based in the Division of Biological Sciences at The University of Montana. The University of Montana is home to a diverse and highly interactive collection of faculty with expertise in ecology, evolution, genetics, genomics, physiology, and behavior. Missoula is a great college town with an exceptional quality of life and is located in the heart of the Rocky Mountains of western Montana. For further information on this position and our research please contact Dr. Miller directly at [scott.miller@umontana.edu](mailto:scott.miller@umontana.edu).

To apply, please visit <http://umjobs.silkroad.com> and click the job title for this position under “Current Openings”. Candidates must apply online, and will be asked to upload the following application materials: a cover letter describing your research interests and qualifications, a CV, and the names and contact information for three references. Review of applications will begin on October 15 and the position will remain open until filled. The appointment is renewable for up to two years with possible extension to a third year. The position is available immediately but the start date will be flexible contingent on the needs of the preferred candidate.

ADA/EOE/AA/Veteran’s Preference Employer

[Scott.Miller@mso.umt.edu](mailto:Scott.Miller@mso.umt.edu)

---

## UMontpellier EvolutionCancer

\*Postdoctoral research opportunity - “Evolutionary models of cancer progression and therapies” V University of Montpellier, France \*

We are looking for a motivated postdoctoral research 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 more general descriptions and ultimately predictive theories. We work closely with cell biology laboratories, and so specific project-oriented collaborations will be encouraged during the project.

The contract is initially for one year, and can be extended annually for up to three years, with a starting date on or before December 1st, 2012. This contract is part of an initiative by the CNRS to support interdisciplinary research involving the ecological and health sciences. Possibility for the researcher to apply for a permanent CNRS position after 1 year of contract.

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) Demonstrated 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 SEPTEMBER 30, 2012 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/> Michael Hochberg <mhochber@univ-montp2.fr>

---

## UNeuchatel EvolutionRhizosphere

We are working not only in an ecological but also in an evolutionary context and that this position could be interesting also for evolutionary biologist.

Best wishes, Matthias

POST-DOC OPPORTUNITY at the University of Neuchâtel, Switzerland

We are looking for an ENTOMOLOGIST/NEMATOLOGIST/CHEMICAL ECOLOGIST

The position is part of a government-sponsored project in collaboration with industry. The project will be part of our research on plant-mediated interactions in the rhizosphere and the principal aim is to develop novel methods for the employment of entomopathogenic nematodes against root pests. The successful applicant should have experience with applied entomology, nematology and/or chemical ecology. He or she should be qualified to take on a leadership role in a highly collaborative project. The work requires extensive traveling and fieldwork. The project follows our previous work on the chemical ecology of plant-herbivore-nematode interactions. See: Rasmann,

Rasmann, S., T. G. Köllner, J. Degenhardt, I. Hiltbold, S. Töpfer, U. Kuhlmann, J. Gershenzon, and T. C. J.

Turlings (2005). Recruitment of entomopathogenic nematodes by insect-damaged maize roots. *Nature* 434: 732-737

Degenhardt, J., I. Hiltbold, T. G. Köllner, M. Frey, A. Gierl, J. Gershenzon, B. E. Hibbard, M. R. Ellersieck, T. C. J. Turlings (2009). Restoring a maize root signal that attracts insect-killing nematodes to control a major pest. *Proc. Natl. Acad. Science USA* 106: 13213-13218

Hiltbold I., M. Baroni, S. Toepfer, U. Kuhlmann and T. C. J. Turlings (2010). Selection of entomopathogenic nematodes for enhanced responsiveness to a volatile root signal can help to control a major root pest. *Journal of Experimental Biology* 213: 2417-2423

Hiltbold, I., B.E. Hibbard, B.W. French and T.C.J. Turlings (2012). Capsules containing entomopathogenic nematodes as a Trojan horse approach to control the western corn rootworm. *Plant and Soil* 385: 11-25

Turlings, T.C.J., I. Hiltbold and S. Rasmann (2012). The importance of root-produced volatiles as foraging cues for entomopathogenic nematodes. *Marschner Review for the "Rhizosphere 3" Special Issue. Plant and Soil* 358: 51-60

The position is available immediately. Details can be obtained by sending an email to Prof. Ted Turlings (ted.turlings@unine.ch). Deadline for applications: Oct. 19, 2012

HELD Matthias <matthias.held@unine.ch>

---

## UNottingham SticklebackEvolution

Research Fellow in Evolutionary Ecology/Genetics (Fixed-term) School of Biology, University of Nottingham, UK

£27,578 per annum

We are seeking a motivated and creative postdoctoral researcher to work on "Multivariate evolution in replicated adaptive radiations" in the three-spined stickleback *Gasterosteus aculeatus*. The work is part of a project funded by the NERC being performed by a research group led by Dr Andrew MacColl. The project involves the use of field fish collection and environmental characterisation, quantitative and molecular genetics, and statistical techniques to elucidate relative contributions of the G' matrix and the environment to de-

termining patterns of morphological evolution in circumpolar adaptive radiations of sticklebacks. The appointee will join an established research group in the School of Biology and will interact with other groups in the department and the global stickleback research community.

Candidates must hold a PhD, or equivalent, in evolutionary biology or a related area. It is essential that they can demonstrate strong quantitative skills in areas including; geometric morphometrics, statistical modelling, quantitative genetics and phylogenetics. Skills in molecular genetics (minimum DNA extraction and PCR) are also necessary. Candidates must be willing to engage in prolonged periods of field work in remote locations i.e. Scotland, Iceland, Canada and Alaska. Previous practical experience of field work and, fish husbandry is also desirable.

This full-time post is available from 1 January 2013 for a period of three and a half years.

Additional information on the lab's research interests is available at <http://www.nottingham.ac.uk/biology/people/andrew.maccoll> and <http://ecology.nottingham.ac.uk/maccoll.html>. Informal enquiries may be addressed to Andrew MacColl, tel: 0115 951 3410 or email: [andrew.maccoll@nottingham.ac.uk](mailto:andrew.maccoll@nottingham.ac.uk). Please note that applications sent directly to this email address will not be accepted.

For more details and/or to apply on-line please access: <http://www.nottingham.ac.uk/Jobs/-CurrentVacancies/ref/MED09469> This message and any attachment are intended solely for the addressee and may contain confidential information. If you have received this message in error, please send it back to me, and immediately delete it. Please do not use, copy or disclose the information contained in this message or in any attachment. Any views or opinions expressed by the author of this email do not necessarily reflect the views of the University of Nottingham.

[Andrew.Maccoll@nottingham.ac.uk](mailto:Andrew.Maccoll@nottingham.ac.uk)

---

## UOtago Biodiversity

Postdoctoral Fellow Department of Zoology Division of Sciences UNIVERSITY OF OTAGO

Applications are invited for the 3-year, fixed-term position of Postdoctoral Fellow. We seek an energetic and dedicated researcher to study the bio-

diversity impacts of human arrival in New Zealand (NZ). The successful candidate will be working on a Marsden-funded research project titled 'The biogeographic importance of historical contingency: extinction and re-colonisation in coastal NZ' and will conduct ancient-DNA research on NZ's prehistoric coastal fauna. An overview of the project is available here: <http://www.royalsociety.org.nz/2011/10/06/waters/> The project will combine ancient-DNA techniques, next-generation sequencing, archaeology and phylogeography. New Zealand has an exceptionally well-preserved archaeological record, and the University of Otago has outstanding facilities for ancient-DNA work.

A PhD and research experience in evolutionary genetics is essential. Experience in ancient-DNA analysis, next-generation DNA sequencing and phylogenetics would be an advantage.

The appointment is expected to start within the following period: November 2012 to January 2013.

Specific enquiries may be directed to Professor Jon Waters, Principal Investigator of the Marsden funded project, Department of Zoology, Tel 03 479 5847 email [jon.waters@otago.ac.nz](mailto:jon.waters@otago.ac.nz). <http://www.otago.ac.nz/Zoology/staff/otago008938.html> Applications close 15 October 2012.

Professor Jon Waters Department of Zoology University of Otago Dunedin, New Zealand Ph NZ-3-4795847 <http://www.otago.ac.nz/Zoology/staff/otago008938.html> Jonathan Waters <[jon.waters@otago.ac.nz](mailto:jon.waters@otago.ac.nz)>

---

## UOxford EvolutionaryGenomics

UNIVERSITY OF OXFORD RESEARCH ASSOCIATE IN STATISTICAL SEQUENCE ANALYSIS THE WELLCOME TRUST CENTRE FOR HUMAN GENETICS, ROOSEVELT DRIVE, HEADINGTON, OXFORD, OX3 7BN Grade 7: £29,249 to £35,938 per annum with a discretionary range to £39,257 per annum

Applications are invited for a Research Associate in Statistical Sequence Analysis to join the group of Dr Gerton Lunter, to develop algorithms for demographic inference from whole-genome data.

Besides encoding an organism's biology, genomes also contain a detailed record of a species' demographic his-

tory, and their relationship to sister species and population subgroups. It is now economical to sequence individual's whole genomes, but few methods to efficiently mine this data are available. In this project, we will develop novel inferential methods using state-of-the-art statistical techniques and recently developed Markovian approximations of the ancestral recombination graph. Through collaborations with Profs Willerslev (Ancient DNA; Copenhagen), Shapiro (Paleogeography; Penn State/UCSC), Meimberg (Plant ecology, Munich), and Mailund (Primate evolution; Aarhus), samples and data are available to apply the method to a number of topical questions in ancestral demography and phylogeography.

You will have a first degree in computer science, physics, mathematics or statistics and have ample experience with C programming, and a thorough understanding of statistical inference. Experience in the field of population genetics, bioinformatics, statistical analysis of genetic data, or high-volume data processing is advantageous but not required. You will have the ability to manage the day-to-day running of a research project, and have good communication skills.

The position is available for two years in the first instance and is funded by Wellcome Trust / NDM.

To apply for this role and for further details, including a job description and person specification, please click on the link below:

[https://www.recruit.ox.ac.uk/pls/hrisliverecruit/-erq\\_jobspec\\_version\\_4.jobspec?p\\_id=104371](https://www.recruit.ox.ac.uk/pls/hrisliverecruit/-erq_jobspec_version_4.jobspec?p_id=104371) Only applications received before 12:00, midday on Wednesday 3rd October 2012 can be considered.

You will be required to upload a CV and supporting statement as part of your online application, please quote reference 104371 in all correspondence.

Interviews will be held in the week of 15th October 2012.

gerton.lunter@well.ox.ac.uk

---

## UPierreMarieCurie AntEvoDevo

A postdoctoral position in EvoDevo of insects is available in Paris, France: Gene expression in ant larvae and the evolution of novel castes.

Closing date: December 20th, 2012.

Position length: 2 years

Start date: Flexible, but no later than June 2013

The Postdoc will work in the team Social Interactions in Evolution (Ecology & Evolution Laboratory, University Pierre & Marie Curie) located in central Paris. This position is funded by the National Research Agency (ANR). It is part of the ANTEVO project that aims at studying the role of phenotypic plasticity and sociality in the process of evolutionary diversification, using ants as a model. The Postdoc will mostly work with Dr. Mathieu Molet. The EvoDevo part is carried out in collaboration with Dr. Ehab Abouheif (McGill University, Montreal) and the field work in Madagascar with Dr. Brian Fisher (California Academy of Science, San Francisco).

The Postdoc will test evolutionary and developmental hypotheses by assessing imaginal disc development into imaginal organs and gene expression patterns in imaginal discs of ant larvae.

The Postdoc will work in an extremely stimulating environment since all team members and some national and international collaborators participate in the ANTEVO project. This will include regular meetings, field work, collective rearing of ant colonies, help from technicians, and participation to congresses. The Social Interactions in Evolution team belongs to the Ecology & Evolution Laboratory where conferences in Ecology and Evolution are held weekly. The Postdoc will thus have the opportunity to interact with local and international researchers.

Qualifications:

- PhD in evolutionary or developmental biology
- Experience in \*in-situ\* hybridization and immunohistochemistry as well as on the insect model
- Publications in evolutionary and developmental biology

Salary: Gross salary around 2200/month. The French Social Security offers competitive health care and insurance benefits.

To apply: Please email your curriculum vitae, relevant reprints, a letter describing background, skills and interests and two letters of reference in Adobe PDF format to Mathieu Molet, [mathieu.molet@upmc.fr](mailto:mathieu.molet@upmc.fr). For more information about the team please check [ecologie.snv.jussieu.fr/socialite/Equipe.html](http://ecologie.snv.jussieu.fr/socialite/Equipe.html) or contact Mathieu Molet.

Mathieu Molet <[mathieu.molet@gmail.com](mailto:mathieu.molet@gmail.com)>



---

## UPierreMarieCurie EvolutionaryEcol

Postdoc position in evolutionary ecology /urban ecology

A 18-months postdoc position in evolutionary ecology is available in the laboratory “Ecology and Evolution” at the University of Pierre et Marie Curie in Paris (CNRS UPMC, UMR 7625). The postdoc is funded by the “région Ile-de-France” (Paris district).

The postdoc research will be part of an interdisciplinary project that aims at studying adaptations developed by organisms living in urban environments. Previous have suggested that individuals living in urban area have specific characteristics as compared to individuals living in rural area (Evans et al. 2009). The combination of particular traits would enable individuals to successfully exploit urban environments. This urbanization syndrome may include increased reproduction rate, high aggressiveness, boldness, tameness toward humans and tolerance to pollution. The degree of melanin-based coloration has been frequently reported to co-vary with life-history, morphological, physiological and behavioural traits. A recent review highlighted potential candidate pleiotropic genes affecting both the degree of individual melanisation and other phenotypic traits, including aggressiveness, tolerance to stress, energy homeostasis and anti-inflammatory immune reactions (Ducrest et al. 2008), suggesting that melanin-based coloration would be associated with several traits involved in the urbanization syndrome. The main objective of the postdoc is to investigate whether melanin-based coloration reflects adaptations to different urban environmental factors (pollution. etc) in an emblematic urban species displaying a melanin-based colour polymorphism, the feral pigeon (*Columbia livia*). The method will combine correlative approaches in the field and experimental approaches in captivity.

The candidate should have a PhD degree in evolutionary biology or ecology as well as good hands-on skills on bird manipulation (blood sampling, injection etc) or strong willingness to acquire them. A good background in data analysis (statistics) and experiment design is also recommended. A driving licence is indispensable. All applicants from any nationalities are welcome.

The work will be conducted in the Laboratory of “Ecol-

ogy and Evolution” (team: Ecophysiologie Evolutive) in Paris under the supervision of Dr Julien Gasparini and Dr Adrien Frantz (<http://ecologie.snv.jussieu.fr/>). Applications should contain a curriculum-vitae with a publications list and the name and e-mail address of two referees.

Duration: 18 months, starting before February 2013  
Salary: 2500 euros per month net of taxes.

Contact: Julien Gasparini, Tel: +33 1 44 27 38 23,  
e-mail: [jgaspari@snv.jussieu.fr](mailto:jgaspari@snv.jussieu.fr)

Dr Julien Gasparini

Laboratoire Ecologie et Evolution CNRS, UMR 7625,  
Université Pierre et Marie Curie Batiment A, 7 ème  
étage 7 quai St Bernard, case 237 75252 Paris, France

Email: [jgaspari@snv.jussieu.fr](mailto:jgaspari@snv.jussieu.fr) Web page labo: <http://ecologie.snv.jussieu.fr/> Web page perso: <http://sites.google.com/site/juliengasparini/> Tel: +33 1 44 27 38 23 Mobile: + 33 6 77 69 38 19 FAX: + 33 1 44 27 35 16

Julien Gasparini <[jgaspari@snv.jussieu.fr](mailto:jgaspari@snv.jussieu.fr)>

---

## UPorto AvianBreeding

CBIO, University of Porto

A 1-year post-doctoral position is available to study environmental and social correlates of reproductive outcome in cooperatively breeding sociable weavers. The post-doc will work as part of an international group that is investigating cooperation and population dynamics in sociable weavers in South Africa and will be working closely with Rita Covas (CIBIO, University of Porto and Percy FitzPatrick Institute of African Ornithology, University of Cape Town ) and Claire Doutrelant (CEFE-CNRS, Montpellier, France).

Sociable weavers inhabit a highly unpredictable and fluctuating environment and previous work suggests that the effect of helpers may act as a buffer against adverse breeding conditions. We intend to test this hypothesis by modelling the effect of several key environmental and social factors on reproduction. The post-doc will analyse a data set already available, but will also participate in additional fieldwork.

Applicants should have strong statistical skills, and good experience in data management and analyses, as well as an interest in the evolution of cooperation. Pre-

vious research experience that integrates climatic variation and phenotypic plasticity is highly beneficial.

The position is available for 1 year, starting in November or December 2012. The funding is not renewable, although possibilities exist of applying for additional funding to develop own lines of research within the project. The post-doc will be based at CIBIO, a young and dynamic research institute in biodiversity and genetics at the University of Porto (Portugal) and will collaborate closely with other research teams in France, UK and South Africa. The working language at CIBIO is English.

The sociable weaver research project is a long-term study hosted by the PFIAO (University of Cape Town) under the coordination of Rita Covas and currently undertaken in collaboration with Claire Doutrelant (CEFE-CNRS, France), Ben Hatchwell and René van Dijk (University of Sheffield) and Res Altwegg (South African National Biodiversity Institute, Cape Town). For more information see the links below or contact and send your CV to rita.covas@cibio.up.pt

[http://www.fitzpatrick.uct.ac.za/docs/-sociable\\_weaver.html](http://www.fitzpatrick.uct.ac.za/docs/-sociable_weaver.html) <http://cibio.up.pt/-cibio.php?content=members&menu=-members&member=rcovas> <http://webpages.icav.up.pt/beheco/index.html> Applications should be sent until the 30st September 2012. An application letter with the reference "BPD trade-offs" must be sent together with the CV, a motivation letter and the contact of two referees to:

Sara Lemos Ferreira

CIBIO - Centro de Investigação em Biodiversidade e Recursos Genéticos

Campus Agrário de Vairão

R. Padre Armando Quintas, Crasto, 4485-661 Vairão

tel. 252 660 411 fax. 252 661 780

e-mail: [bolsas.cibio@mail.icav.up.pt](mailto:bolsas.cibio@mail.icav.up.pt) ; cc to [rita.covas@cibio.up.pt](mailto:rita.covas@cibio.up.pt)

Claire Doutrelant

<http://www.cefe.cnrs.fr/en/ecologie-spatiale-des-populations/claire-doutrelant> Claire DOUTRELANT <[claire.doutrelant@cefe.cnrs.fr](mailto:claire.doutrelant@cefe.cnrs.fr)>

Postdoctoral Research Fellow - ML4136 Description School of Biology, Salary: £30,122 - £32,901 per annum, Start Date: As soon as possible, Fixed Term: 3 years

A three-year post-doctoral position is available to work in the laboratory of Mike Ritchie at the University of St Andrews, on a project which is collaborative with Stephen Goodwin at the University of Oxford. The aim is to adopt a multidisciplinary approach to examine the evolution of the fruitless gene in *Drosophila*. Studies will include sequencing, population genetics and selection analysis, genetic manipulation and behavioural analysis, and expression analysis. The ideal candidate will be an enthusiastic evolutionary or behavioural geneticist with an interest in the genetics of sexual behaviour and/or speciation. A PhD is essential and a work permit will be required for non-European citizens.

The work will be based at the Centre for Biological Diversity at the University of St Andrews, Scotland and will involve visits to collaborators (especially but not only at Oxford) and potential field-work.

This post is for 3 years starting as soon as possible.

Informal enquires to Professor Mike Ritchie email: [mgr@st-andrews.ac.uk](mailto:mgr@st-andrews.ac.uk), but further details available at the University vacancies website

PLEASE NOTE that formal applications cannot be made to Mike, but must be submitted via the University online e-recruitment system at <https://www.vacancies.st-andrews.ac.uk/welcome.aspx> (vacancy ML4136).

Some websites: Further details: <https://www.vacancies.st-andrews.ac.uk/welcome.aspx> (vacancy ML4136)

MGR Lab: <http://biology.st-andrews.ac.uk/-ritchielab/> MGR Uni: <http://www.st-andrews.ac.uk/-profile/mgr> CBD @ St A: <http://biodiversity.st-andrews.ac.uk/> SG Lab: [http://www.dpag.ox.ac.uk/-academic\\_staff/stephen\\_goodwin](http://www.dpag.ox.ac.uk/-academic_staff/stephen_goodwin) Closing Date: 17 October 2012

Please quote reference no: ML4136

Mike Ritchie Centre for Biological Diversity, School of Biology, University of St Andrews, Fife. Scotland KY16 9TH UK Phone: 0 (44 outside UK) 1334 463495 Some websites: Lab: <http://biology.st-andrews.ac.uk/-ritchielab/> Uni: <http://www.st-andrews.ac.uk/-profile/mgr> Google: <http://scholar.google.co.uk/-citations?user=JSkvwMsAAAAJ&hl> CBD: <http://biodiversity.st-andrews.ac.uk/> Michael Ritchie <[mgr@st-andrews.ac.uk](mailto:mgr@st-andrews.ac.uk)>

---

**UStAndrews  
EvolutionSexAllocation**

Post-doctoral Research Associate

The genetic basis of adaptive sex allocation in the parasitoid wasp *Nasonia vitripennis*.

We are seeking an enthusiastic post-doctoral research associate to join a 3 year Natural Environment Research Council (NERC)-funded project exploring the genetic basis of sex allocation behaviour in the parasitoid wasp *Nasonia vitripennis*. Female *Nasonia* facultatively allocate the sex of their offspring in line with predictions from Local Mate Competition (LMC) theory. Whilst we have a detailed understanding of the sex ratio phenotype, we know rather little about the genetic control of sex ratio, or the genetic causes of sex ratio variation. The project will involve a range of approaches, including QTL analysis, RNA-seq transcriptomics and epigenetics.

The successful candidate will have a degree in biological sciences and hold a PhD in evolutionary or behavioural genetics, or a related field. Some familiarity with quantitative genetics and bioinformatics will be important.

This fixed-term position is for 36 months with a start-date before 31st January 2013.

Please direct informal enquiries to Dr David Shuker ([david.shuker@st-andrews.ac.uk](mailto:david.shuker@st-andrews.ac.uk)) and for further information about the Insect Behavioural Ecology lab please visit: <http://insects.st-andrews.ac.uk/> For further details and also to apply, please visit <https://www.vacancies.st-andrews.ac.uk> and search for Ref No: ML1203

Closing Date: 1 October 2012

University of St Andrews School of Biology/Centre for Biological Diversity Salary: £30,122 - £35,938 per annum Fixed Term: 36 months Start: Up to 31 January 2013

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

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

---

**USussex EvolutionaryGenetics-  
SexualDimorphism**

Evolutionary Genetics of Sexual Dimorphism

Postdoctoral Research Fellow - 3 years

University of Sussex, UK - School of Life Sciences

Salary range: starting at £30,122 and rising to £35,938 per annum.

Expected start date: 1 January 2013

A 3-year postdoctoral position is available within Ted Morrow's lab at the University of Sussex, UK:

As part of a larger project on the evolutionary genetics of sexual antagonism, the post-holder will investigate variation in sexually dimorphic transcription in the fruit fly *Drosophila melanogaster* through developmental time. This will involve establishing experimental protocols in order to generate large-scale datasets of transcription and subsequent analysis using modern statistical techniques, as well as sharing in the maintenance and assessment of established lines/stocks. The post-holder is expected to work in close collaboration with other members of the group, and will be encouraged to develop their own skills through training.

The position would be ideal for a highly motivated and ambitious researcher with previous experience of analysing large-scale genomic datasets, particularly of gene expression data obtained using microarrays or RNAseq. Experience with *Drosophila* in the lab is advantageous but not essential. The candidate should have good analytical, statistical and/or bioinformatics skills, with proficiency of using R (Bioconductor) and/or programming. The post-holder must have a background or PhD in evolutionary genetics or a related subject.

THE MORROW LAB is interested in the evolutionary genetics of sexual antagonism. Our research program is dependent upon an active and enthusiastic team together with some expert collaborators. We also have generous support from The Royal Society, The European Research Council, and the Swedish Research Council.

LAB WEBSITE: <http://www.sussex.ac.uk/lifesci/-morrowlab/index> THE SCHOOL OF LIFE SCIENCES at the University of Sussex includes a range of

experimentalists and theoreticians working on various aspects of molecular and whole organism evolutionary biology. The Morrow lab forms part of the Evolution, Behaviour and Environment Group. There are good transport links between the Falmer campus and the lively towns of Brighton and London.

<http://www.sussex.ac.uk/lifesci/> <http://www.sussex.ac.uk/lifesci/ebe/research> CLOSING DATE FOR APPLICATIONS: 26 October 2012

INFORMAL ENQUIRIES: You are welcome to email [ted.morrow@sussex.ac.uk](mailto:ted.morrow@sussex.ac.uk) please include a CV.

HOW TO APPLY: see <http://www.sussex.ac.uk/-aboutus/jobs/850> Edward H. Morrow Royal Society University Research Fellow School of Life Sciences University of Sussex John Maynard Smith Building Falmer Brighton, BN1 9QG UNITED KINGDOM

Email: [ted.morrow@sussex.ac.uk](mailto:ted.morrow@sussex.ac.uk) Tel: +44 (0)1273 87 2862 Mobile: +44 (0)783 772 7714 ResearcherID: <http://www.researcherid.com/rid/C-2358-2011> Ted Morrow <[Ted.Morrow@sussex.ac.uk](mailto:Ted.Morrow@sussex.ac.uk)>

---

## UTorontoMississauga Systematics

Postdoctoral position in *Cuscuta*/Convolvulaceae systematics

A postdoctoral researcher position is available in the lab of Sa<sup>1</sup>a Stefanovi<sup>1</sup> at the University of Toronto, Mississauga < <http://www.utm.utoronto.ca/biology/people/stefanovic-sasa> >. The successful candidate will take the lead on an ongoing research in *Cuscuta* systematics, funded in part by the NSERC of Canada. *Cuscuta* (dodders) includes between 200-220 species and is the only parasitic genus in Convolvulaceae. Several projects are underway, including one to produce a global phylogeny of the genus, leading to its monograph. Other projects include detailed systematic and species-level phylogenetic studies of major clades within *Cuscuta*, application of new DNA sequencing technologies to resolve phylogenetic placement of this parasitic genus within Convolvulaceae, as well as plastid genome evolution in this and other heterotrophic groups.

Responsibilities include generation of molecular data for phylogeny reconstruction (mainly sequences of plastid and nuclear genes); collecting next-generation sequence data; developing and running bioinformatics pipelines to clean, assemble, and align the NGS data; data analysis, presentation, and publication; field work

for the collection of herbarium, seed and silica gel samples; and training and supervision of undergraduate lab assistants.

Candidates should have a Ph.D. and experience in plantsystematics, fieldwork, and working in a team; experience with heterotrophic plants is preferred but not required. The ideal candidate will also have a strong background in phylogenetics, and experience working with next-generation sequence data. I am seeking in particular for someone who is highly independent, self-motivated, and willing to develop new methods. The position is available for one year beginning in January 2013 (negotiable) and renewable for up to one additional year as long as satisfactory progress is demonstrated.

Review of applications will begin immediately and continue until a suitable candidate is found. Applicants should submit a statement of interest and description of past experience, a CV, and contact information (names, email addresses, and phone numbers) of three references. Electronic submission of application as a single PDF file is encouraged to <[sasa.stefanovic@utoronto.ca](mailto:sasa.stefanovic@utoronto.ca)>.

Sa<sup>1</sup>a Stefanovi<sup>1</sup>

Department of Biology University of Toronto Mississauga 3359 Mississauga Rd. N Mississauga, Ontario L5L 1C6 CANADA

+1-905-569-4271 [sasa.stefanovic@utoronto.ca](mailto:sasa.stefanovic@utoronto.ca)

Sasa Stefanovic <[sasa.stefanovic@utoronto.ca](mailto:sasa.stefanovic@utoronto.ca)>

---

## UTurku Finland Evolutionary Genomics

Both a PhD and a post-doctoral position are available to study evolutionary genomics/proteomics in at the University of Turku, Finland in the research group of Erica Leder (<http://users.utu.fi/eriled>). These positions are part of an Academy of Finland funded project which aims to use a systems biology approach to identify the molecular mechanisms responsible for the evolution of sexual dimorphism as well as various adaptive phenotypic traits, primarily in threespine stickleback, but also in other organisms.

Researchers with previous research experience in ecological or evolutionary genomics, in particular involving next-generation sequencing or other molecular meth-

ods, and the enthusiasm (and patience) to apply novel techniques to non-model organisms, are welcome to apply.

The successful applicants will be expected to have the necessary molecular and/or bioinformatic skills and scientific enthusiasm to contribute significantly to evolutionary genomics aspects of one of several projects:

- The molecular mechanisms of sexual dimorphism in stickleback

fishes; investigation into the evolution of sex specific behaviour, morphology, and physiology (see Leder et. al 2009, 2010, Viitaniemi & Leder 2011; for background)

- The molecular mechanisms of sperm competition and the evolution of spermatogenesis; this is a cross species approach using RNA-seq and proteomics to identify genes differentially expressed or have mutations associated with various traits across various taxa (including birds and fish)

\*For the post-doctoral position:

The first year will likely consist of analyses and writing manuscripts to publish results from previously collected datasets. However, the post-doc will be involved in planning and implementing their own research in this area in subsequent years. The position is for 1 year (due to the terms of the funding), but with a high likelihood of continuation for 2-3 years.

Requirements:

Candidates are expected to have a PhD in biology or a related field and

a strong background in molecular biology and genetics and/or bioinformatics.

\*For the PhD position:

A Master's degree in biology or related field is required.

For both positions, the candidate is expected to be able to express him/herself fluently in English (written and spoken), be able to work both independently and as a member of a team, both nationally and internationally.

To apply:

Please send a letter describing your research interests and qualifications, a CV (including publication list), and contact information for three references (who will provide a letter of reference) to Erica Leder (erica.leder@utu.fi).

Review of applications will commence immediately and continue until a suitable applicant is found (but applications will not be considered after October 15).

The positions will start as soon as possible.

The salary range is 3000 - 3500 EUR per month for the post-doc, and

1800-2200 EUR per month for a PhD.

Informal inquiries can also be addressed to Erica Leder.

Erica Leder, PhD Academy Research Fellow Division of Genetics and Physiology Dept of Biology (Vesilinnantie 5) 20014 University of Turku Finland

\*\*mobile +358 503398204 tel. +358 23335791 fax. +358 23336680

erica.leder@utu.fi

---

## UValencia Biodiversity

The Institute Cavanilles for Biodiversity and Evolutionary Biology (University of Valencia, Spain) offers a 3-year postdoc in Dr. Rafael Sanjuán lab to work on virus mutation and evolution. The project, funded by the European Research Council, aims at studying mutational processes in several RNA viruses including HIV-1 and hepatitis C. Ideally, candidates should have a background in next-generation sequencing, bioinformatics, HIV biology, and molecular biology, although this is not strictly necessary. For more information on the research group, please visit [www.uv.es/rsanjuan](http://www.uv.es/rsanjuan). Candidates should contact directly Dr. Sanjuán (rafael.sanjuan@uv.es).

rafael.sanjuan@uv.es

---

## UVirginia EcologicalGenomics

The Department of Biology at the University of Virginia invites applications for a postdoctoral Research Associate position in the Blackman laboratory. A new collaborative project between Dr. Stacey Harmer at UC Davis and the Blackman lab will utilize solar tracking by developing sunflower heads as an experimental system for investigating how and why internal and environmental signals are integrated to regulate plant growth. Funded by a grant from the NSF Plant Genome Research Program, the Research Associate will take a central role in developing and implementing studies of the genetics of natural variation. Re-

sponsibilities will include association mapping of circadian and growth traits, characterization of candidate genes, and implementation of functional studies.

The Research Associate will work closely with the PI, lab personnel, the Harmer lab, and other collaborators to design and lead research in the lab and field. The position also will also involve significant time devoted to data management and dissemination, mentoring graduate and undergraduate students, and coordinating data analysis efforts with a UC Davis initiative to increase early-career undergraduate participation in scientific research.

The ideal candidate will demonstrate the ability to integrate across biological disciplines, identify and troubleshoot promising new methodologies independently, and use the appointment to develop and pursue novel, exciting questions. Demonstrated expertise in quantitative and developmental genetics is essential. Specific experience in at least two of the following areas is also required, and experience with more than two of these areas is desirable: 1) Analysis of association and QTL mapping data 2) transgene construction and plant transformation in tissue culture, 3) programming, database development, and analysis of NextGen genomic or transcriptomic datasets, and 4) morphometrics.

The completion of a Ph.D. degree in Biology or related field by appointment start date is required. Preferred appointment start date is January 2013.

This is a one-year appointment, however, appointment may be renewed for an additional two, one-year increments, contingent upon available funding and satisfactory performance.

To apply, please submit a candidate profile through Jobs@UVA (<https://jobs.virginia.edu>) and electronically attach: curriculum vitae with list of publications, a cover letter that summarizes their research interests and professional goals, and contact information for three (3) references; search on posting number 0610706.

Review of applications will begin September 19, 2012; however, the position will remain open until filled.

Questions regarding this position should be directed to: Dr. Benjamin Blackman 434-924-1930 [bkb2f@virginia.edu](mailto:bkb2f@virginia.edu) <http://people.virginia.edu/~bkb2f/Blackman.Lab/>

Questions regarding the Candidate Profile process or Jobs@UVA should be directed to:

Mary Liberman [ml5ac@virginia.edu](mailto:ml5ac@virginia.edu)

The University of Virginia is an Equal Opportunity/Affirmative Action Employer. Women, Minorities,

Veterans and Persons with Disabilities are encouraged to apply.

[bkb2f@cms.mail.virginia.edu](mailto:bkb2f@cms.mail.virginia.edu)

---

## UWindsor Canada EnvGenomics

Postdoctoral Position in Environmental Genomics at the University of Windsor

Postdoctoral Fellow/Research Associate Position in Environmental Genomics; Great Lakes Institute for Environmental Research (GLIER) at the University of Windsor, Canada. We invite applicants for a postdoctoral position in Environmental Genomics at the GLIER. The position is funded by the Canadian Aquatic Invasive Species Network (CAISN). The postdoctoral researcher will have access to excellent genomics facilities housed at GLIER. The Postdoctoral Fellow will be involved in developing early detection tools and will use pyrosequencing of environmental samples collected from key port areas and from ballast water of arriving vessels to identify the complement of aquatic invasive species as well as the native species present in Canadian waters. See our web pages at <http://www.caisn.ca/>; <http://www.uwindsor.ca/glier/hugh-macisaac/>; for a description of CAISN related research projects. Experience with nextgen sequencing or sequence data and related bioinformatic/computational/ programming skills is essential. Familiarity with one or more of the following would be an advantage: genomics, phylogenetic analysis, selection detection algorithms, genome evolution, and programming for bioinformatics. Experience working with aquatic invertebrates is an asset. The candidate should have a good publication record and ability to work well in a collaborative research environment. The position is for one year, but can be renewed for a second year contingent on progress. The position may be filled immediately. Review of applicants will begin November 1st, 2012. Interested applicants should send their CV, a brief statement of research interest, and names and email addresses of three persons willing to provide letters of reference. For more information and inquiries about the position, please contact Hugh MacIsaac, Director of CAISN at [hughm@uwindsor.ca](mailto:hughm@uwindsor.ca) or Melania Cristescu at [melania.cristescu@mcgill.ca](mailto:melania.cristescu@mcgill.ca). GLIER offers a collaborative environment within the fields of species invasions, evolutionary genetics, genomics, toxicology, environmental chemistry, and ecology. The CAISN network offers

ample opportunities for interactions with researchers across Canada and the world.

Hugh MacIsaac Professor and Director, NSERC Canadian Aquatic Invasive Species Network II Great Lakes Institute for Environmental Research University of Windsor, Windsor, ON, Canada N9B 3P4 ph. (519) 253-3000 ext. 3754 (office), 2734 (lab) ph. (519) 817-9689 (cell), fax (519) 971-3616 <http://www.uwindsor.ca/hughm> <http://www.caisn.ca> < <http://www.caisn.ca/> >

“Elena Melania Cristescu, Prof”  
<[melania.cristescu@mcgill.ca](mailto:melania.cristescu@mcgill.ca)>

---

## UWisconsinMadison EvolutionaryGeneticsGenomics

Postdoctoral Research Associate in Evolutionary Genetics and Genomics, University of Wisconsin-Madison

A postdoctoral position focused on the evolution of extreme body size in island populations is available in the laboratory of Bret Payseur at the University of Wisconsin-Madison. The position is part of an NIH-funded project to understand the genetic basis of rapid morphological evolution that often accompanies island colonization. The position involves using population genomics and genetic mapping to reconstruct the evolution of exceptional body size in a unique island population of house mice.

The successful candidate will demonstrate a strong background in population genetics, quantitative genetics, molecular biology and genomics. Experience with computer programming is especially desirable. Applicants should be highly motivated and interested in working as part of a research team. A Ph.D. in a biological science is required.

The Payseur lab is located in the Laboratory of Genetics at the University of Wisconsin-Madison. The department and the university are home to a diverse and a highly interactive collection of faculty with expertise in genetics and evolution. The Payseur lab enjoys stimulating collaborations with leaders in statistical genetics, molecular genetics and computational biology. The University of Wisconsin-Madison is consistently ranked as one of the best public universities and is renowned for its strength in biological research. Madison is a vibrant place to live, offering excellent restaurants, a thriving arts community, and an impressive collection

of bike paths and lakes. Madison is only a few hours driving distance from Chicago and Milwaukee.

The initial appointment will be for two years. The appointment may be renewed, contingent upon progress.

To apply, please email a one page research statement explaining the motivation for applying and qualifications for the position, along with a CV and contact information for three references to Bret Payseur ([payseur@wisc.edu](mailto:payseur@wisc.edu)). Review of applications will begin immediately. Please contact Bret Payseur with any questions.

The University of Wisconsin is an Equal Opportunity/Affirmative Action employer.

Bret Payseur Associate Professor Laboratory of Genetics Genetics/Biotechnology 2428 425-G Henry Mall University of Wisconsin Madison, WI 53706

Office phone: 608-890-0867 Lab phone: 608-262-6856 Fax: 608-262-2976

<http://payseur.genetics.wisc.edu/> Bret Payseur  
<[payseur@wisc.edu](mailto:payseur@wisc.edu)>

---

## Vienna EvolutionaryBotany

Postdoctoral fellowship - University of Vienna

Diversity and evolution of the floral morphospace

A postdoctoral position funded through the Austrian Science Fund (FWF) is available at the Department of Structural and Functional Botany, Faculty Centre of Biodiversity, University of Vienna, Rennweg 14, 1030 Vienna, Austria. Website: [www.botanik.univie.ac.at/-sfb](http://www.botanik.univie.ac.at/-sfb). Terms of employment: Employment is for 3 years; expected starting date is March 2013 (or according to agreement); and salary is according to FWF guidelines (website: [www.fwf.ac.at](http://www.fwf.ac.at)).

Project description: A striking feature of organismal morphological variation is that not all the theoretically possible architectures have been explored during the evolution of species. Existing morphologies are restricted to a limited set by developmental, functional, and phylogenetic constraints. The project aims at comparing the occupied portion of the morphological space (or morphospace) in angiosperm reproductive structures through geological time and among selected clades of flowering plants. The project focuses on physical and biological rules, convergence and contingency at play

during the evolution of natural shapes. The project will be conducted in collaboration with colleagues in Austria, France and the U.S. (botanists, palaeobotanists, evolutionary biologists, and theoretical biologists)

Desired qualifications include: A PhD degree in biology; knowledge and experience in evolutionary biology (phylogeny, molecular dating, ancestral state reconstruction) and angiosperm morphology (extant taxa/fossils); a strong basis in statistics and mathematics; experience in database management; and excellent communication skills in English (both oral and written).

Place of work: The Faculty Centre of Biodiversity consists of three botanical and a zoological department as well as a botanical garden. Research focuses on various aspects of patterns and processes in evolution and ecology. The Faculty Centre offers a stimulating working environment and excellent research facilities including state-of-the-art laboratories for morphological as well as for molecular work.

Application: To apply, please send a single PDF document comprising your CV, your publication list, a letter describing your motivations to apply, and a short summary of your current research interests to [juerg.schoenenberger@univie.ac.at](mailto:juerg.schoenenberger@univie.ac.at). Also arrange for two letters of reference sent directly to the email address given above. Applications must be received by October 31, 2012. For further information please contact Jürg Schönenberger; tel. +43 (0)1 4277 54080 or email.

Florian Jabbour <[florian.jabbour@gmail.com](mailto:florian.jabbour@gmail.com)>

---

## WashingtonStateU EvolutionPesticideResistance

Job Title: Postdoctoral Fellow in the Evolution of Pesticide Resistance

Application Deadline: Review of Applications will Begin on October 15, 2012 Job Description: Two-spotted spider mite (*Tetranychus urticae*) and several closely related species are chronic pests in a number of important West Coast perennial specialty crops. Mites including *T. urticae* are well documented as developing resistance to commonly used pesticides. Focusing on four specialty crop systems with endemic pest pressure from spider mites (almonds, strawberries, hops, and peppermint), we propose to leverage the latest molecular-level

research into mechanisms of the evolution of pesticide resistance toward developing and validating rapid and robust molecular methods for screening *T. urticae* populations in our model crops for resistance to abamectin and other popular miticides.

Development of such a technique would benefit producers of these crops by indicating the presence or absence of resistance genes within the mite populations in their orchard, field, or yard, which could lead to the adoption of less disruptive, more selective insecticides for control of the key direct pests.

The postdoctoral fellow will develop and validate robust diagnostics including a quantitative sequencing protocol and PCR to follow insecticide/acaricide-based resistance frequencies in the field. The postdoc will also assist in the planning and preparation of experiments in addition to troubleshooting problems. The postdoc is expected to prepare the results of the research for reports, conference presentations and publication in referred journals.

Applicants should have a Ph.D. and experience with molecular entomology, molecular ecology, molecular evolution, or population genetics. Applicants having previous experience applying genomics tools to elucidate mechanisms of the evolution of pesticide resistance in insects are especially encouraged to apply.

Applicants are expected to have a strong publication record, exhibit creativity in their work and enjoy collaborative interactions. Evidence of strong oral and written communication skills including the ability to publish the results of scientific research in scientific journals and present research at national/international conferences is preferred.

The position is based in the Department of Entomology at Washington State University, Pullman WA in the laboratory of Dr. Laura Corley Lavine. The position will be available for 1 year with renewal for up to 1 additional year based on performance.

To apply, please submit a cover letter explaining why you are qualified for the position, a CV and contact information for at least three referees.

Laura Corley Lavine Associate Professor Department of Entomology Washington State University Pullman, WA 99164-6382

509.335.7907

“Lavine, Laura Sue” <[lavine@wsu.edu](mailto:lavine@wsu.edu)>



---

**WayneStateU 2**  
**EvolutionGeneRegulation**

**\*POST-DOCTORAL POSITIONS**

Two post-doctoral positions are available in the research groups led by *\*Francesca Luca* *\*and* *\*Roger Pique-Regi\**, at the Center for Molecular Medicine and Genetics, Wayne State University, Detroit, MI. The research focus of the groups is on the genetic and molecular characterization of gene regulation from an *\*evolutionary and functional* *\*perspective*. Examples of collaborative projects include: characterizing variation in the response to hormonal and environmental stimuli, identifying tissue-specific cis-regulatory modules with DNase-I footprinting, and detecting signals of selection and adaptation in gene regulatory regions. The ultimate aim is to learn about the genetic and evolutionary basis of disease susceptibility and response to treatment.

We have a strong record in using both *\*functional* *\*and* *\*evolutionary genomics approaches\**. We use a combination of high throughput experimental platforms and computational/statistical tools. We seek applicants who are very creative, energetic, and can work independently. We operate relatively small but well-funded and intense laboratories. The goal is that everyone should have the resources, support and mentorship

needed to be successful and become an independent investigator.

The two positions are intended for applicants with complementary expertise. Specifically we are looking for talented individuals with either a strong experimental and/or computational background that will contribute complementary expertise to create a team jointly supervised by Dr. Luca and Dr. Pique-Regi.

The experimentalist position would be under the direct supervision of Dr. Luca, and requires experience in collecting genome-scale data, in mammalian cell and tissue culture techniques and in molecular genetics techniques. Familiarity with the quantitative skills required for the analysis of genomic data (e.g., Python, R, scripts for setting up an analysis pipeline) is also required.

For the computational position (under the direct supervision of Dr. Pique-Regi), applicants should have a strong background in quantitative/statistical skills, and a very strong interest in biological applications. A background in genomics, gene regulation or statistical genetics is an advantage, although we will consider outstanding candidates with quantitative degrees (e.g. in Statistics, CS, or Engineering)

For more information please contact:

Francesca Luca, PhD

e-mail: *\*fluca@wayne.edu\**

Roger Pique-Regi, PhD

e-mail: *\*rpique@wayne.edu\**

Francesca Luca <fluca@wayne.edu>

---

**WorkshopsCourses**

BodegaBay California AppliedPhylogenetics . . . . .	114	Tuusula Finland GEinteractions Nov7-8 . . . . .	116
Heemskerk Netherlands EvolutionaryDynamics Nov11-15 . . . . .	115	UCalifornia SanDiego DrosophilaSpecies Oct18-21	2 116
Misiones Argentina ConservationGenetics Jan10-22	115		
NHM London YoungSystematists Nov29 . . . . .	115		

## BodegaBay California AppliedPhylogenetics

UC Davis

### WORKSHOP IN APPLIED PHYLOGENETICS

at Bodega Marine Laboratory, Bodega Bay, California

March 2V9, 2013

Sponsored by the

University of California, Davis and Bodega Marine Laboratory

(additional financial support provided by the University of Rochester)

[http://bodegaphylo.wikispot.org/Front\\_Page](http://bodegaphylo.wikispot.org/Front_Page) Introduction Phylogenetic methods have revolutionized modern systematics and become indispensable tools in evolution, ecology and comparative biology, playing an increasingly important role in analyses of biological data at levels of organization ranging from molecules to ecological communities. The estimation of phylogenetic trees is now a formalized statistical problem with general agreement on the central issues and questions. A nearly standard set of topics is now taught as part of the curriculum at many colleges and universities. On the other hand, application of phylogenetic methods to novel problems outside systematics is an area of special excitement, innovation, and controversy, and perspectives vary widely.

This Spring, for the fourteenth consecutive year, we will teach a workshop for graduate students interested in applying phylogenetic methods to diverse topics in biology. The one-week course is an intensive exploration of problems to which modern phylogenetic approaches are being applied and the most current statistical tools and approaches that are used to solve those problems. We cover a range of topics in ecology, phylogenomics, functional morphology, macroevolution, speciation, and character evolution. The course starts with recent advances in phylogenetic methodology, and then focuses on methods and tools that can be brought to bear on these “applied” issues in the context of a given phylogeny.

The course will be held at the Bodega Marine Laboratory on the Northern California coast, which has on-site housing. Our newly increased bandwidth and access to computing clusters allows us to utilize computer-intensive approaches even in a one-week course. The

course format will involve equal parts of lecture, discussion, and hands-on software training. One afternoon during the week will be left free for field trips to local natural areas.

Topics Covered \* Estimating, evaluating and interpreting phylogenetic trees \* Recent advances in Bayesian and Maximum-likelihood estimation of phylogeny \* Estimation of species trees, gene-tree/species-tree conflicts \* Divergence-time estimation from sequence data: relaxed clocks, fossil calibration \* Analysis of character evolution: maximum likelihood and Bayesian approaches, ancestral-state estimation, rates of trait evolution \* Analysis of morphological form, function of complex character systems \* Inference of diversification rates: detecting rate shifts, testing key innovation hypotheses \* Model specification issues: model selection, adequacy and uncertainty \* Diagnosing MCMC performance

Instructors for the 2013 workshop \* Carl Boettiger \* Jeremy Brown \* Jonathan Eisen \* Rich Glor \* Tracy Heath \* Mark Holder \* John Huelsenbeck \* Luke Mahler \* Brian Moore \* Samantha Price \* Bruce Rannala \* Bob Thomson \* Peter Wainwright

Prerequisites Available housing limits course enrollment to ~30 students. Preference is given to doctoral candidates who are in the early to middle stages of their thesis research, and who have completed sufficient prerequisites (through previous coursework or research experience) to provide some familiarity with phylogenetic methods. Unfortunately, because of limits on class size, postdocs and faculty are discouraged from applying.

Admission and Fees Students will be admitted based on academic qualifications and appropriateness of research interests. The course fee is \$650. This includes room and board at BML for duration of the course (arriving March 2, leaving March 9) and transportation from Davis to

Application Deadline Applications are due by November 16, 2013. Please send a completed application form and one letter of recommendation from your major advisor. Applications should be sent via email as PDFs to [gbradburd@ucdavis.edu](mailto:gbradburd@ucdavis.edu). Students will be notified via e-mail by December 1, 2013 of acceptance.

Application Forms and Information Visit the Bodega website to for additional information and to download an application form: <http://bodegaphylo.wikispot.org/2013-Workshop> Send all application materials to:

Gideon Bradburd Department of Evolution and Ecology 5343 Storer Hall University of California Davis Davis, CA 95616 email: [gbradburd@ucdavis.edu](mailto:gbradburd@ucdavis.edu)

“Brian R. Moore” <brianmoore@ucdavis.edu>

---

### Heemskerk Netherlands EvolutionaryDynamics Nov11-15

The Research School Ecology & Evolution of the Centre for Ecological and Evolutionary Studies (Groningen, Netherlands) organizes a PhD level course on Evolutionary Dynamics at the “Assumburg” Castle in Heemskerk, the Netherlands.

**Aims** We want to provide the participants with a basic understanding of different theories for slow and fast evolutionary dynamics, and we want to stress the similarities of several approaches by presenting their basics in a single course. Lectures cover the basics of quantitative genetics, theories of selection response and adaptive dynamics. By means of discussions and (computer) exercises during the course, the participants should become able to apply the tools presented to simple population dynamical models, to turn them into evolutionary dynamical systems.

Our guest lecturer during the course will be Luis-Miguel Chevin [<https://sites.google.com/site/luismiguelchevin/>], who will lecture on his own research and who will be available for discussions.

The course will be held from 12 - 15 November 2011 at the “Assumburg” Castle in Heemskerk, the Netherlands. It is advised to bring your own laptop.

More information and instructions for registration can be found at: [www.rug.nl/fmns-research/rsee/-phdcourses/evolutionarydynamics](http://www.rug.nl/fmns-research/rsee/-phdcourses/evolutionarydynamics) Course lecturers: Martijn Egas (Institute for Biodiversity and Ecosystem Dynamics, University of Amsterdam, Netherlands) Tom Van Dooren (CNRS, UMR7625 Ecology and Evolution, Paris, France) Guest lecturer: Luis-Miguel Chevin (CNRS, Centre for Functional and Evolutionary Ecology Montpellier, France)

vandoore@biologie.ens.fr

---

### Misiones Argentina ConservationGenetics Jan10-22

The Red de Genética para la Conservación (ReGeneC, The Conservation Genetics Network) announces the IX Latin American Conservation Genetics Workshop, to be held from January 10-22, 2013, in Misiones, Argentina.

ReGeneC workshops bring together Latin American scientists with experience in different areas of conservation genetics, and are designed for graduate students and professionals about to start or already involved in a conservation genetics project. Course contents are presented entirely in Spanish. Information on participating lecturers, course contents, and the application process is available at the ReGeneC website: <http://-regeneec.ula.ve/taller/ene2013/> \*\*\*\*\*

The Red de Genética para la Conservación (ReGeneC) anuncia el IX Taller Latinoamericano de Genética para la Conservación, con fechas del 10 al 22 de enero de 2013, en Misiones, Argentina.

La ReGeneC une a científicos latinoamericanos con experticias en distintas áreas de esta temática, y apunta a estudiantes posgrados y profesionales a punto de iniciar o ya involucrados en un proyecto de genética aplicada a la conservación. El curso es dictado en exclusivamente en español. Informaciones acerca de los profesores participantes, el contenido, y las modalidades de pre-inscripción se encuentran en el sitio web del Taller: <http://regeneec.ula.ve/taller/ene2012/> km-rodriguezclark@gmail.com

---

### NHM London YoungSystematists Nov29

14th YOUNG SYSTEMATISTS FORUM

Thursday, 29 November 2012, 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 26 October 2012. The body text should not exceed 150 words in length. If the presentation is co-authored, the actual speaker (oral) or presenter (poster) must be clearly indicated in BOLD text.

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

Ellinor Michel <[e.michel@nhm.ac.uk](mailto:e.michel@nhm.ac.uk)>

---

## Tuusula Finland GEinteractions Nov7-8

\*Dear colleagues,\*

\*This is a reminder for a workshop "Genotype-by-Environment Interactions and Adaptation of Farm Animals on Phenotypic and Molecular Level" in Tuusula, Finland on the 7th-8th of November, 2012.\*

\*Nordic Genetic Resource Center (NordGen) arranges a two-day workshop "Genotype-by-Environment Interactions and Adaptation of Farm Animals on Phenotypic and Molecular Level" in Tuusula, Finland, on the 7th-8th of November, 2012. The workshop aims to deepen the understanding of genotype-environment interactions and adaptation potential of farm animal genetic resources (AnGR) in the face of climate change, and to stimulate networking between stakeholders for future research strategy building. The workshop is organized in three sessions each having three or four invited speakers:\*

\*1. Genotype-by-Environment Interactions\*

\*2. Farm Animal Adaptation on Phenotypic and Ge-

netic Level\*

\*3. Genotype-by-Environment Interactions in Practical Breeding and Conservation Programs\*

\*Additionally, a poster session will be arranged during the workshop.\*

\*Registration deadline for participation is 5th of October. There is no registration fee but the participants take care of their own accommodation and travelling costs.\*

\*The workshop is directed towards scientists, PhD students and young scientists, national gene resource coordinators, breeding association representatives, government officials and other stakeholders with special interest in animal genetic resources and changing environment.\*

\*Please, follow the link below to our homepages to find the program of the workshop with practical details and registration information\*

\*<http://www.nordgen.org/index.php/en/content/view/full/2114/>\* \*Feel free to distribute this invitation amongst your institutes. \*

\*Best regards \*

\*Anne Præbel\*

Dr. Anne Kettunen Præbel Senior Scientist NordGen - Nordic Genetic Resource Center P.O.Box 115, NO-1431 Ås, Norway Street address: Raveien 9, 1430 Ås Phone: +47 64949772, mobile: +47 9778 0903 [anne.praebel@nordgen.org](mailto:anne.praebel@nordgen.org) [www.nordgen.org](http://www.nordgen.org)

Torsten Nygaard Kristensen  
<[torsten.nygaard@nordgen.org](mailto:torsten.nygaard@nordgen.org)>

---

## UCalifornia SanDiego DrosophilaSpecies Oct18-21 2

Three Spots Left!!! Drosophila Species Workshop XI - October 18th - 21st, 2012

The Eleventh Drosophila Species Workshop will take place from Thursday, October 18th through Sunday, October 21st, 2012 at the UCSD campus in La Jolla, California. The workshop employs hands-on approaches and will focus on the characteristics of the melanogaster, repleta, virilis, and obscura species groups, including how to identify species, aspects of their biology and reproduction, and husbandry. There

will also be a FlyBase demonstration given by Kathy Matthews. Additional workshop instructors include Patrick OGrady, Stephen Schaeffer, Bryant McAllister, Masa Watada, Therese Markow, and Maxi Richmond. We are pleased to announce this year's keynote speaker will be Mariana Wolfner (Cornell University). Registration is \$400 and includes all instruction and materials, a dinner with keynote talk by Mariana Wolfner, morning and afternoon refreshments and one lunch. Space is limited. To apply, please send a one-page statement of your research interests and why the workshop will be valuable to you to Dr. Maxi Rich-

mond, UCSD Drosophila Species Stock Center: mrichmond@ucsd.edu. More information and schedules from previous years can be found on our website: <https://stockcenter.ucsd.edu/info/workshops.php> . – Maxi Polihronakis Richmond, PhD Drosophila Species Stock Center Section of Cell and Developmental Biology Division of Biological Sciences Muir Biology Bldg., Rm. 2125 University of California, San Diego 9500 Gilman Drive # 0116 La Jolla, California 92093-0116 Phone: 858-246-0350

Maxi Polihronakis Richmond <mrichmond@ucsd.edu>

---

## Instructions

Instructions: To be added to the EvoDir mailing list please send an email message to Golding@McMaster.CA. At this time provide a binary six letter code that determines which messages will be mailed to you. These are listed in the same order as presented here — Conferences; Graduate Student Positions; Jobs; Other; Post-doctoral positions; WorkshopsCourses. For example to receive the listings that concern conferences and post-doctoral positions this would be 100010. Messages are categorized on the basis of their subject headings. If this subject heading is not successfully parsed, the message will be sent to me at Golding@McMaster.CA. In addition, if it originates from 'blackballed' addresses it will be sent to me at Golding@McMaster.CA. These messages will only be read and dealt with when I have time. The code 000000 has all channels turned off and hence gets only a once monthly notification of the availability of a monthly review pdf file.

To be removed from the EvoDir 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 EvoDir direct them to the email [evodir@evol.biology.McMaster.CA](mailto:evodir@evol.biology.McMaster.CA). Do not include encoded attachments and do not send it as Word files, as HTML files, as L<sup>A</sup>T<sub>E</sub>X files, Excel files, etc. . . . plain old ASCII will work great and can be read by everyone. Add a subject header that contains the correct category "Conference:, Graduate position:, Job:, Other:, Postdoc:, Workshop:" and then the message stands a better chance of being correctly parsed. Note that the colon is mandatory.

The message will be stored until the middle of the night (local time). At a predetermined time, the collected messages will be captured and then processed by programs and filters. If the message is caught by one of the filters (e.g. a subject header is not correctly formatted) the message will be sent to me at Golding@McMaster.CA and processed later. In either case, please do not expect an instant response.

## Afterword

This program is an attempt to automatically process a broad variety of e-mail messages. Most preformatting is collapsed to save space. At the current time, many features may be incorrectly handled and some email messages may be positively mauled. Although this is being produced by L<sup>A</sup>T<sub>E</sub>X do not try to embed L<sup>A</sup>T<sub>E</sub>X or T<sub>E</sub>X in your message (or other formats) since my program will strip these from the message.