
E v o l D i r

October 1, 2015

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

Foreword

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

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

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



Foreword	1
Conferences	2
GradStudentPositions	12
Jobs	48
Other	98
PostDocs	103
WorkshopsCourses	139
Instructions	150
Afterword	151

Conferences

Amsterdam Evolutionary Zoology Oct8-9	2	Manhattan KS Ecological Genomics Nov6-8 3	7
Amsterdam Zoology Oct8-9	3	Manhattan KS Ecological Genomics Nov6-8 4	7
Antwerp Disease Evolution May10-13	3	Marseilles 20th Evol Biol Sep20-23-2016	8
Asilomar American Society of Naturalists Jan10-14	4	Marseilles 20th Evol Biol Sep20-23-2016 registration ..	8
Asilomar American Society of Naturalists Jan10-14 2016,	4	NHM London Young Systematists Nov20	8
Austin TX Evolution Art Jun17-21	5	Rovinj Croatia Polyploidy Hybridization May11-14 ..	9
Eatonton Georgia SEPEEG Oct23-25	5	Royal Society London Dating Divergence Nov9-10 ..	10
Edinburgh PopGenet Dec15-18 Registration	5	Smithsonian Inst Phylogenetics Sep15	10
Finland Experimental Evolution Oct13-15	6	Smithsonian Inst Phylogenetics Sep15 3	11
Greifswald U Environmental Adaptation Mar6-9	6	Uppsala EuroEvoDevo Jul26-29	11

Amsterdam Evolutionary Zoology Oct8-9

Zoology 2015 *Deadline for oral/poster abstract submission extended* to midnight Sep 20!

!!We still have open slots for oral and poster presentations!!

Zoology 2015, the 21st Benelux Congress of Zoology co-organized by the Royal Dutch and Belgian Zoological Societies, will take place in Amsterdam (the Netherlands) on 8 & 9 October 2015 at the Barbizon Hotel in Amsterdam.

A unique opportunity

Zoology 2015 will be an excellent opportunity for zoology students and young scientists to meet colleagues and to present and discuss their research. Moreover, the conference will give an overview of the current scientific work from many European universities and zoological institutes, and thus provide ample opportunity for establishing contacts for collaboration.

Zoology 2015 welcomes oral presentations and posters from researchers at all stages of their scientific career (master students, PhD students, post-docs or PIs) and from all fields of animal science, from molecules to biosphere.

Topics

Four general topics will be illustrated by four keynote speakers: genomics of development and behaviour, ecological forecasting, eco-evolutionary dynamics, microbe - (in)vertebrate interactions.

Distinguished Zoologist Lecture: Steve Jones (<http://www.ucl.ac.uk/slms/people/show.php?personid=10687>) *Keynote speakers:* Marcel Visser (<https://nioo.knaw.nl/en/employees/marcel-visser>) < <http://www.beldade.nl/> > Matthew Evans (<http://www.sbcs.qmul.ac.uk/staff/matthewevans.html>) Hanna Kokko (<http://www.ieu.uzh.ch/staff/professors/-kokko.html>) Yael Artzy-Randrup (<http://www.uva.nl/en/about-the-uva/organisation/staff-members/-content/a/r/y.a.artzy-randrup/y.a.artzy-randrup.html>)

For more information go to www.zoology2015.nl.

Amsterdam Zoology Oct8-9

Two weeks left to submit your abstract to Zoology 2015! www.zoology2015.nl Zoology 2015, the 21st Benelux Congress of Zoology co-organized by the Royal Dutch and Belgian Zoological Societies, will take place in Amsterdam (the Netherlands) on 8 & 9 October 2015 at the Barbizon Hotel in Amsterdam.

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Keynote speakers Steve Jones (<http://www.ucl.ac.uk/slms/people/show.php?personid=10687>) Marcel Visser (<https://nioo.knaw.nl/en/employees/marcel-visser>) <<http://www.beldade.nl/>> Matthew Evans (<http://www.sbcs.qmul.ac.uk/staff/matthewevans.html>) Hanna Kokko (<http://www.ieu.uzh.ch/staff/professors/-kokko.html>) Yael Artzy-Randrup (<http://www.uva.nl/en/about-the-uva/organisation/staff-members/-content/a/r/y.a.artzy-randrup/y.a.artzy-randrup.html>)

Feel welcome to join us -registration is now open!

For more information go to www.zoology2015.nl .
"I.Smallegange@uva.nl" <I.Smallegange@uva.nl>

Antwerp DiseaseEvolution May10-13

MEEGID XIII: 13th International Conference on Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases

10-13 May 2016 | Institute of Tropical Medicine, Antwerp, Belgium

Abstract Submission Deadline: 15 January 2016

Website: <http://www.meegidconference.com> Join us at the Institute of Tropical Medicine, Antwerp for MEEGID XIII, the leading conference on the molecular evolution of all pathogens: viruses, pathogenic bacteria, fungi, parasites and prions. Special emphasis (through plenary lectures, express debates and symposia) will be given to health problems of specific interest to the present world including: Ebola; tuberculosis; AIDS; malaria; cancer and infectious diseases.

Plenary lectures and symposia will also deal with transversal topics such as population genetics, evolution, speciation, bioinformatics, whole genome sequencing analysis and omic analyses. Together, the MEEGID congress series and its companion journal, Infection, Genetics and Evolution represent a unique forum for cross-fertilization between evolutionary science in the broad sense and biomedical research on infectious diseases.

Attending this conference will enable you to access unique, high-quality content, learn about the latest developments in infectious diseases and epidemiology research from experts in the field, present your latest research to your peers and network with an interdisciplinary group from around the world - including academics and researchers, as well as health and industry professionals.

Conference Topics:

Abstract Submission Deadline: 15 January 2016

Oral and poster abstracts are now invited on the following topics. They should be submitted using the online abstract submission system: <https://elsevier.conference-services.net/authorlogin.asp?conferenceID=3D3982&language=en-uk>

- Genetics, population genetics, genomics, proteomics, molecular epidemiology (strain typing), population biology, mathematical modeling and bioinformatics. Submissions can deal with the host (humans, wild and

domestic animals, plants, the pathogen, or the vector in case of vector-borne diseases.

- Host + pathogen or pathogen + vector, or pathogen + vector + host (co-evolution)
- All pathogens, including: viruses; parasitic protozoa; helminthes; fungal organisms and prions
- All infectious models, including those of veterinary or agronomical relevance
- Cancer and infectious diseases.
- Transmissible diseases and evolution of mankind.

Selected papers communicated in the framework of MEEGID XIII will be published after peer-review in a special issue of *Infection, Genetics and Evolution*.

During the conference, awards will be attributed to the best communication, the best communication by a student, the best communication by a scientist from the Southern World and the best poster communication. Each prizewinner will be offered a free 2-year subscription to *Infection, Genetics and Evolution*.

Best wishes,

Sophie

Sophie Hayward

Hayward Marketing Woodland Cottage, 35 Main Street, Long Compton, Warwickshire, CV36 5JJ

Tel: 01608 684977 / Mobile: 07769 313 653 / email: sophie.hayward1@btinternet.com

Core working hours: 9.30am - 3pm, Monday, Tuesday, Wednesday and Thursday

Sophie Hayward <sophie.hayward1@btinternet.com>

**Asilomar
American Society of Naturalists
Jan10-14**

Registration for the 2016 Asilomar conference of the American Society of Naturalists will close in ~ two weeks.

The American Society of Naturalists will be holding a small independent meeting at the Asilomar Conference Center on the Monterey Peninsula in coastal California, January 10-14, 2016. The goal of the meeting is to promote integration between evolution and ecology by attracting a more diverse community of biologists than typically attend the evolution meetings held jointly each

summer by ASN, SSE, and SSB. All attendees will have the option to present their research in talks or posters which will be grouped by topic.

Information about the conference can be found on the conference website: <http://www.amnat2016.org> including a general schedule and information about three afternoon symposia and exiting evening events. To register, visit: <http://www.amnat2016.org/register.html> Lodging must be booked separately: <http://www.amnat2016.org/foodandlodging.html> The conference is limited to 200 people due to meeting space constraints, so we expect the conference will fill up completely. We therefore encourage potential attendees to register shortly after the registration period opens.

Who should attend: We invite graduate students, post docs, or faculty from fields related to ecology, evolution, behavior, genetics or associated fields who are interested in big-picture and integrative research into patterns and processes in biological diversity. The meeting is not restricted to ASN members, but newcomers are encouraged to join the society. The conference will be kept small to encourage new conversations. ASN is subsidizing student and post doc registrations to encourage graduate students and post docs to attend the meeting.

We look forward to seeing you there! Sincerely, Volker Rudolf ASN Organizing Committee Chair

– Volker H.W. Rudolf, Ph.D. Associate Professor of Ecology & Evolutionary Biology Department of Bio-Sciences Rice University MS-170 6100 Main Street, Houston, TX, 77005 Email: volker.rudolf@rice.edu Phone: 713-348-2834 Fax: 713-348-5232 Webpage: <http://www.owlnet.rice.edu/~volker.rudolf/> “vr2@rice.edu” <vr2@rice.edu>

**Asilomar American Society of
Naturalists Jan10-14 2016,**

Registration will close soon for the 2016 Asilomar conference of the American Society of Naturalists and there are only a few spots left! The American Society of Naturalists will be holding a small independent meeting at the Asilomar Conference Center on the Monterey Peninsula in coastal California, January 10-14, 2016.

In addition to fantastic symposia, this year’s program includes Natural History Quizbowl, a debate on “The Niche”, and bonfire socials to cap off the day. The faculty:student ratio is also really high, and the conference

size is small, so it should be a great opportunity for early career scientists and graduate students to network and get feedback on research. There are only a few spots left so start getting together your trivia teams and register soon!

Information about the conference can be found on the conference website: <http://www.amnat2016.org>. To register, visit: <http://www.amnat2016.org/-register.html> Lodging must be booked separately: <http://www.amnat2016.org/foodandlodging.html> We look forward to seeing you there! Sincerely, Volker Rudolf ASN Organizing Committee Chair

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Austin TX EvolutionArt Jun17-21

The 2016 Evolution conference (the annual meeting of the Society for the Study of Evolution, the Society of Systematic Biologists, and the American Society of Naturalists) will be held from June 17-21 in beautiful Austin, TX. In conjunction with the meeting, the societies and a local art gallery (Art.Science.Gallery) are co-sponsoring an evolution-themed art exhibit. The exhibit will provide an opportunity for meeting attendees and others to showcase their creative talents, increase the visibility of the meeting and the societies to the local community, and provide opportunities for public education about evolutionary biology through the exciting lens of visual arts. The exhibit will run at the Art.Science.Gallery leading up to, and during, the conference, and a selection of the works will be on display at the Austin Convention Center as a pop-up exhibit during the evening of the opening reception of the meeting.

Art.Science.Gallery has issued an open call seeking submissions for this exhibition. Works may explore (but are not limited to) the sub-disciplines within evolutionary biology, notable evolutionary biologists, current research topics, important discoveries and concepts, and the history of evolutionary thought. You need not be a member of any of the societies to submit something for consideration.

Pass the word along and, if you're at all artistically

inclined, consider submitting something. Additional details can be found on our new permanent meeting website: www.evolutionmeetings.org (under the 'News' heading).

Sincerely, Your Evolution2016 organizers
howard.rundle@uottawa.ca

Eatonton Georgia SEPEEG Oct23-25

Registration is now open for the 2015 South Eastern Population Ecology and Evolutionary Genetics (SEPEEG) meeting, which will be from October 23-25, 2015. It will be held at Rock Eagle 4-H Center in Eatonton, Georgia, which is about an hour southeast of Atlanta (<http://goo.gl/maps/5InU2>). The cost is \$150 which includes accommodation, food, and beverages, and the first 30 registered students who are ASN members receive \$40 off. The plenary speaker will be Margaret Ptacek from Clemson University. The organizing committee is Kelly Dyer, Dave Hall, and Andrea Sweigart from the University of Georgia.

For more information, please see the SEPEEG website: http://mendel.genetics.uga.edu/Hall_Lab/-sepeeg.html Please register by October 9th if you would like to give a talk. The final registration deadline is October 15th at 5 pm.

Kelly Dyer Associate Professor Department of Genetics University of Georgia Athens, GA 30602-7223 email: kdyer@uga.edu phone: 706 542 3154

Kelly Dyer <kdyer@uga.edu>

Edinburgh PopGenet Dec15-18 Registration

** Pop Group 49 **

The 49th UK Population Genetics Group meeting will be held in Edinburgh (Scotland) from the evening of Tuesday 15th to lunchtime on Friday 18th December, 2015.

** Registration is now open! **

The registration fee of 375 GBP includes bed & breakfast accommodation, and there are reductions for students and members of the Genetics Society of Great Britain.

Please register at <https://www.efdelegates.ed.ac.uk/-PopGroup2015> If you wish to submit an abstract, please register first and then email your title, the full author list, and a 200 word abstract to EdinburghPopGroup@ed.ac.uk, using the subject line "PopGroup49 Abstract Submission". Please specify whether you wish your abstract to be considered for a talk or a poster. Please use a word .doc, .docx, txt, or rtf file, and please do not use block capitals.

We plan to allocate talk and poster presentations on a first-come first-served basis, although if we reach capacity very early, preference will be given to more junior presenters

Full details of the meeting are available here:

<http://www.populationgeneticsgroup.org/> There are a very small number of 200 GBP bursaries for students, provided by the Fisher Memorial Trust. If you wish to apply for a bursary, please send a brief email of application along with your abstract to EdinburghPopGroup@ed.ac.uk with the subject line "Fisher Memorial Trust Bursary"

We look forward to seeing you in Edinburgh this Christmas,

Darren Obbard On behalf of the Edinburgh PopGroup committee. EdinburghPopGroup@ed.ac.uk

– The University of Edinburgh is a charitable body, registered in Scotland, with registration number SC005336. "EdinburghPopGroup@ed.ac.uk" <EdinburghPopGroup@ed.ac.uk>

Finland Experimental Evolution Oct13-15

Experimental Evolution & Community Dynamics Symposium 2015

We are happy to announce the symposium "Experimental Evolution & Community Dynamics": <https://eeed2015.wordpress.com/> The aim of the meeting is to bring together a mix of graduate students, postdocs and more senior people working in fields of ecology, evolution and microbiology using experimental evolution and/or theory and modelling. The symposium will take place

this fall (October 13th-15th) in Finland (Tvärminne Zoological Station).

Thank you for your interest!

Teppo Hiltunen (University of Helsinki) & Lutz Becks (Max Planck Institute for Evolutionary Biology)

Lutz Becks <lbecks@evolbio.mpg.de>

GreifswaldU Environmental Adaptation Mar6-9

Graduate Meeting Evolutionary Biology & Ecology

Responses to Environmental Change

6th to 9th March 2016

Greifswald University, Audimax, Domstraße 11

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

The meeting will last from Sunday, 6th March, starting at 7 p.m. with an icebreaker party until Wednesday, 9th March, around lunchtime. The program will include invited and contributed talks, a poster session, but also social events such as an excursion to the Baltic lagoons. Our confirmed keynote speakers are Prof. Luc de Meester (KU Leuven) and Prof. Jean Clobert (CNRS Moulis). Greifswald is a beautiful town located right at the Baltic Sea, surrounded by spectacular wildlife and scenery.

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

To register, please send an email to Michael Schöner (schoenerm@uni-greifswald.de) before 6th December 2015 including information on whether you would like to (1) present a talk (15 + 5 minutes), a poster (please

include a preliminary title for both) or none, and (2) stay in the youth hostel (please indicate type of room) or not. Participation is free of charge, though we cannot cover travel expenses and accommodation.

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

Looking forward to seeing you in Greifswald!

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

"kfischer@uni-greifswald.de" <kfischer@uni-greifswald.de>

Manhattan KS EcologicalGenomics Nov6-8 3

EARLY REGISTRATION ENDS NEXT WEEK!!!

13th Annual Ecological Genomics Symposium November 6-8, 2015 Hilton Garden Inn, Manhattan, KS Symposium website: <http://ecogen.k-state.edu/symposia/2015.html> This year marks the 13th anniversary of the Ecological Genomics Symposium. The symposium will feature a diverse array of established and emerging leaders in the field of ecological and evolutionary genomics. Symposium details can be found at <http://ecogen.k-state.edu/symposia/2015.html>. The meeting will convene at 7:00 p.m. on Friday, November 6, and conclude at Noon on Sunday, November 8.

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

POSTER ABSTRACTS: Poster topics should be related to the field of Ecological Genomics. A NUMBER OF SUBMITTED POSTER ABSTRACTS WILL BE SELECTED FOR ORAL PRESENTATIONS. Instructions for submitting your abstract online are at: <http://ecogen.k-state.edu/symposia/2015abstract.html>. DEADLINE: September 18.

VENUE: The symposium will take place at the Hilton

Garden Inn in downtown Manhattan. Reserve your hotel room online by visiting the Symposium website. Deadline: October 7.

FEATURED SPEAKERS:

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

DEADLINES: Friday, 9/18 Early Registration at discounted rates Friday, 9/18 Poster Abstracts for oral presentation consideration and poster sessions Wednesday, 10/7 Hotel Reservations

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

Ecological Genomics Institute Directors: Dr. Loretta Johnson, johnson@ksu.edu Dr. Michael Herman, mherman@ksu.edu Kansas State University, Division of Biology 116 Ackert Hall, Manhattan, KS 66506-4901 www.ecogen.ksu.edu by Jennifer Rhodes, Program Coordinator jenniferrhodes@ksu.edu

Jennifer Rhodes <jenniferrhodes@ksu.edu>

Manhattan KS EcologicalGenomics Nov6-8 4

EARLY REGISTRATION EXTENDED TO FRIDAY, SEPTEMBER 25!!!

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POSTER ABSTRACTS: Poster topics should be related to the field of Ecological Genomics. A NUMBER OF SUBMITTED POSTER ABSTRACTS WILL BE SELECTED FOR ORAL PRESENTATIONS. Instructions for submitting your abstract online are at: <http://ecogen.k-state.edu/symposia/2015abstract.html>. DEADLINE: September 25.

VENUE: The symposium will take place at the Hilton Garden Inn in downtown Manhattan. Reserve your hotel room online by visiting the Symposium website. Deadline: October 7.

FEATURED SPEAKERS:

* Scott V. Edwards, Harvard University, Comparative genomics and the origin of phenotypic novelty in birds

* Michael Lynch, Indiana University, The 5000-genome *Daphnia pulex* Project

* Melissa Pespeni, University of Vermont, Ecological genomics in a diverse and changing world: Studies in sea urchins and horned beetles

* Stacey D. Smith, University of Colorado Boulder, Evolutionary genomics of flower color transitions

* Joan Strassmann, Washington University in St. Louis, Cooperation, conflict, and symbiosis in social amoebae

* Michi Tobler, Kansas State University, Finding mechanisms underlying life in extreme environments

DEADLINES: Friday, 9/25 Early Registration at discounted rates Friday, 9/25 Poster Abstracts for oral presentation consideration Wednesday, 10/7 Hotel Reservations Friday, 10/16 Poster Abstracts for poster session

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

Ecological Genomics Institute Directors: Dr. Loretta Johnson, johnson@ksu.edu Dr. Michael Herman, mherman@ksu.edu Kansas State University, Division of Biology 116 Ackert Hall, Manhattan, KS 66506-4901 www.ecogen.ksu.edu by Jennifer Rhodes, Program Coordinator jenniferrhodes@ksu.edu

Jennifer Rhodes <jenniferrhodes@ksu.edu> Jennifer Rhodes <jenniferrhodes@ksu.edu>

Marseilles 20thEvolBiol Sep20-23-2016

Dear all

While the 19th next evolutionary biology meeting at Marseilles will take place next week, it is my pleasure to announce that the next year meeting will take place from September 20 to September 23

see <http://sites.univ-provence.fr/evol-cgr/> or www.aeeb.fr

best regards

Pierre

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

Marseilles 20thEvolBiol Sep20-23-2016 registration

The registration, for the the .20th evolutionary biology meeting at Marseilles, will open The first of october 2015

More info <http://sites.univ-provence.fr/evol-cgr/> contact <marie-helene.ROME@univ-amu.fr>

all the best Pierre

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

NHM London YoungSystematists Nov20

17th YOUNG SYSTEMATISTS FORUM

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

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

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

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

Again the YSF will be held the day after the Molluscan Forum (<http://www.malacsoc.org.uk/-MolluscanForum.htm>) also at the Natural History Museum. This has been arranged so both meetings can be attended, although if attending both you will have to register for both meetings separately. There will also be a meeting on Natural History Collections and Climate Change Research on the 17th (details to be announced shortly). Come for a full week.

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

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

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

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

Rovinj Croatia

PolyploidyHybridization May11-14

International Conference on Polyploidy, Hybridization and Biodiversity

11-14 May 2016, Rovinj, Croatia

Dear Colleagues,

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

Call for Presentation and Attendance

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

Istrian experience with traditional dinner

Rovinj is one of the most developed tourist destinations in Croatia, boasting rich natural and cultural heritage with beautiful landmarks such as the old town and the lush Zlatnirt (Punta corrente) forest. Zlatnirt is a protected forest park, while Rovinj's islands and coastal area are protected landscapes/seascapes. During the

conference participants will have opportunity to travel to mystic Middle ages of Svetvinaenat in Morosini Grimani castle - legend about Mare the witch from Svetvinaenat enriched with the fair of autochthonous products, degustation of Istrian delicacies, learning the istrian typical music and folk dance - balunia.

Yours sincerely,

Visnja Besendorfer

ICPHB2016 Organizing Committee

Email: icphb2016@biol.pmf.hr

Jonathan F. Wendel, Distinguished Professor and Chair Department of Ecology, Evolution, & Organismal Biology, Iowa State University Ames, IA 50011 Voice (515) 294-7172; FAX 515-294-1337; jfw@iastate.edu <http://www.eeob.iastate.edu/faculty/WendelJ/> (Personal home page) <http://www.eeob.iastate.edu/> (Department home page)

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

RoyalSociety London DatingDivergence Nov9-10

Dear Evoldir members,

I would like to bring to your attention a meeting on Divergence Time Estimation that will be held at the Royal Society in London on the 9th and 10th of November.

See attached call.

kind regards Davide

Final call for poster abstract submissions for presentation at the Royal Society Discussion Meeting 'Dating species divergence using rocks and clocks', organised by Ziheng Yang and Philip Donoghue, held at the Royal Society, London, November 9-10.

< <https://royalsociety.org/events/2015/11/dating-species-divergences/> >

Attendance is free but you must register in advance.

If you wish to present a poster, please submit a title and 200 word abstract to <discussion.meetings@royalsociety.org> by October 1st.

Philip Donoghue Professor of Palaeobiology

School of Earth Sciences University of Bristol Life Sciences Building 24 Tyndall Avenue Bristol, BS8 1TQ

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Homepage < <http://palaeo.gly.bris.ac.uk/~donoghue/> > < <http://bristol.academia.edu/~PhilipDonoghue>><<http://www.researcherid.com/rid/A-3873-2008> > *** Dr Davide Pisani Reader in Phylogenomics School of Biological Sciences and School of Earth Sciences University of Bristol Life Sciences Building 24 Tyndall Avenue Bristol, BS8 1TG Email: davide.pisani@bristol.ac.uk Phone: +44 (0) 117 39 41196

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SmithsonianInst Phylogenetics Sep15

The Frontiers in Phylogenetics program (Smithsonian Institution, the George Washington University, and the University of Maryland) is pleased to announce the 2015 Frontiers in Phylogenetics Fall Symposium. When: Tuesday, September 15th, 2015 Where: Baird Auditorium at the National Museum of Natural History, Smithsonian Institution in Washington, DC. Theme: Methods and analysis of coevolution across scales: from within genomes to disease and environments

The symposium will also be webcast - feel free to publicize this link to any interested colleagues that are unable to attend in person: <http://www.ustream.tv/channel/-smithsonian-national-museum-of-natural-history> Schedule (EDT):

9:00-9:15 Welcome 9:15-9:50 Anna Savage (University of Central Florida): Functional immunogenomics of tolerance in an amphibian-fungus host pathogen system 9:50-10:25 Marin Talbot Brewer (University of Georgia): Phylogenetic and population genomic approaches for investigating plant-parasite evolution 10:25-10:40 break 10:40-11:15 Holly Bik (University of Birmingham): Phylogeny-driven environmental sequencing approaches for microbial eukaryotes 11:15-11:50 Maria Hoffmann (FDA): Tracing Origins of Salmonella Strains Causing a Food-borne Outbreak 11:50-12:25 Spencer Nyholm (University of Connecticut): Using “omics” to understand interactions with beneficial bacteria in the model squid host Euprymna scolopes 12:25-2:00 lunch break 2:00-2:35 Dan Janies (University of North Carolina Charlotte): Genes, evolution, and geography of pathogens 2:35-3:10

Corrie Moreau (The Field Museum): From genomes to microbiomes: The role of symbiosis in ants 3:10-3:45 C. Miguel Pinto (National Museum of Natural History): Tracking the origins of infectious diseases using museum collections 3:45-4:00 break 4:00-4:35 Pamela Weisenhorn (Argonne National Lab): Evolutionary patterns in microbial energy metabolism 4:35-5:10 Mike Sorenson (Boston University): Contrasting Patterns of Genetic Divergence in Obligate Brood Parasites: Implications for the Genetics of Host-Specific Adaptation

Rebecca Dikow dikowr@si.edu

“Dikow, Rebecca” <DikowR@si.edu>

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SmithsonianInst Phylogenetics Sep15 3

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Uppsala EuroEvoDevo Jul26-29

After the vibrant 5th meeting of the European Society for Evolutionary Developmental Biology (EED) in Vienna in 2014, we are pleased to announce that the 6th meeting is going to take place in Uppsala, Sweden, from 26 to 29 July 2016. Details will soon be provided to you.

Today, the Scientific Committee of the EED invites proposals for short symposia for the Uppsala conference. It is the aim of our conferences to stimulate the communication between subdisciplines and researchers from different countries. We therefore particularly encourage submission of symposia on broad and integrative topics of potential interest to researchers from different fields (e.g., developmental biology, genetics, palaeontology, genomics, theoretical biology). Symposia that combine animal and plant studies are particularly welcome. Ideally, speakers should come from several countries, not just from those of the proposed organizers. Symposia can accommodate 4 invited speakers and allow 25 minutes for each speaker (20 minutes talk and 5 minutes discussion). Please note that speakers can only present in a single symposium. To facilitate selection of symposia for the program, please include the following in your proposal:

- (1) Title of symposium
- (2) Provisional list of proposed speakers
- (3) Brief (abstract length) description of the symposium, including a short indication of what the different speakers are expected to contribute
- (4) Brief justification of why the symposium is appropriate for an EED meeting (e.g. timeliness, general interest, interdisciplinarity)
- (5) Contact information of all symposium organizers

(6) Please indicate whether you intend to seek external financial support for your symposium

Please submit your proposal before September 4th, 2015.

All submissions should be sent to: eed.soc@gmail.com

(Please, do not reply directly to this message to submit your proposal)

Please note that the EED does not provide financial support for speakers invited to a symposium, and the

Society thus encourages symposium organizers to seek external support for their symposium.

We look forward to receiving your suggestions for symposia!

On behalf of the Scientific Committee,

Frietson Galis Program Officer

tvdooren@gmail.com

GradStudentPositions

Aber GutMicrobeEvolution	13	OtagoUNewZealand PopulationGeneticTheory	31
AberystwythU AmphibianAdaptations	13	PennsylvaniaStateU BeeEvoDevoMimicry	31
Adelaide Australia AncientMicrobeDNA	14	SaintLouisU ConservationGenomics	31
Basel GeneRegulationTheory	14	SanDiegoStateU EvolutionaryGenomics	32
CityUNewYork ComparativePopGenetics	15	Sherbrooke BighornSheepFitness	33
DrexelU SymbiontDrivenAntagonisticEvolution	15	TexasAMU FishCancerEvolution	33
DTUAqua Denmark PopulationGenomics	16	TrinityCollege Dublin EvolutionRootEndophytes ..	34
Finland SalmonidThermalAdaptation	17	UAlaska Fairbanks EvolutionaryBiol	34
FloridaIntlU EvolutionAdaptation	17	UAlberta ConservationGenetics	35
GeorgiaTech QuantBioSciences	18	UBasel CichlidEcologyEvolution	35
iBiK-F Frankfurt ModelingEvolution	19	UBasel CichlidGenomics	36
INRA Nancy France FungalQuantitativeGenetics ..	20	UCalgary AdaptationGenomics	37
IPasteur PopCompGenomics	20	UCalifornia SanDiego EvolutionarySystemsBiology	38
LaTrobeU PlantTaxonomy	21	UColoradoBoulder FloralEvolution	38
Liverpool GenomicsMolecularEvolution	21	UConnecticut FlowerEvolution	39
MacquarieU Sydney LandscapeGenomics	22	UGlasgow TrypanosomaPopulationGenomics	39
MaxPlanck EvolutionaryInteractions	23	UHohenheim PlantPathogenCoevolution	40
MaxPlanckInst AvianWaterfowlGenomics	23	UHouston EcologyEvolution	41
MonashU AdaptationEnvironmentalChange	24	UMainz AntLifeHistoryEvolution	41
MonashU AdaptationSexualDimorphism	25	UMaryland EcologicalGenomics	42
MonashU EvolSexGenomeConflictAgeing	26	UNevada Reno BioinformaticsGenomics	43
MonashU EvolutionaryTheory	26	UNorthDakota BisonEvolution	43
Montpellier RiceDomestication	27	UOtago EpigeneticInheritance	44
Muenster RapidEvolution	28	UOttawa 2 Genomics	44
NTNU Norway EcoEvolutionaryGenomics	29	UppsalaU HostGutMicrobiotaInteractions	45
OhioStateU BatConservationGenomics	30	UQuebec TroisRivieres ContemporaryHumanEvolution	46
OhioStateU SnakeConservationGenetics	30		

USunshineCoast SocialEvolutionSexualSelection ...	47
WageningenU SexualSelection	47

Aber GutMicrobeEvolution

Graduate position in Biological, Computational and Mathematical characterisation of microbial dark matter from the rumen.

Project description: Gut microbes are vitally important to the health, efficiency and environmental impact of their animal hosts and especially for ruminants as they allow access to the nutrients in forage that would otherwise be inaccessible to the animal. However, as only a small percentage of the predicted numbers of microbes in the rumen have been successfully cultured, most of the genomic information collected so far has come from culture-independent techniques, such as metagenomics. The genomic information retrieved from the 'unknown' organisms, termed 'microbial dark matter', can constitute 40% of all the sequencing data and its characterisation is one of the greatest challenges to fully understanding the gut microbiome. We are looking for a talented and motivated scientist to take on this challenge.

This Ph.D. project will utilise the vast amount of experience and data produced in IBERS from the rumen microbiome, coupled with expertise from the departments of computer science and mathematics to address this pressing issue. The successful candidate will gain world-class expertise in microbial genomics, metagenomics analyses and computational biology. They will be a member of the ecological and evolutionary genomics lab (<http://www.creeveylab.org>) under the direct supervision of Dr. Chris Creevey (<http://www.aber.ac.uk/en/ibers/staff/chc30/>) in IBERS.

The fully funded 3-year PhD scholarship pays UK/EU university tuition fees (currently 4,052pa) and a stipend of 14,057 per year. Applicants should hold, or expect to obtain, a minimum of a first or good upper-second class honours degree (or equivalent) in a relevant subject (e.g. Molecular Biology, Bioinformatics, Computer Science or Mathematics). Contact the lead supervisor Dr. Chris Creevey (chc30@aber.ac.uk) to discuss the project.

Deadline for applications: 30th September 2015 For more details on how to apply see: <http://www.findaphd.com/search/ProjectDetails.aspx?PJIDf102&LID0> "Chris Creevey [chc30]" <chc30@aber.ac.uk>

AberystwythU AmphibianAdaptations

Graduate position in evolutionary systems approaches to understanding visual adaptations in amphibians.

Amphibians are a model group for studying sensory receptors, allowing perception of the environment they inhabit, and multiple times have independently developed successful adaptations in both nocturnal and diurnal species (i.e. the size of eyes, photoreceptor cells and associated visual pigments). As the amphibians represent the most ancestral group of the tetrapod vertebrates, understanding the genetic underpinnings of the evolutionary adaptations in their senses will further our understanding of how novel biological innovations arise.

This Ph.D. project will utilise the expertise from Aberystwyth University, Leeds University, Bristol University and the Natural History Museum UK, to tackle the problem of nocturnal versus diurnal adapted visual systems. The successful candidate will learn phylogenomic, molecular evolution techniques as applied to biological systems and will be registered in Aberystwyth University. They will be expected to spend time at each of the partner institutions during the project. The successful candidate will benefit from novel transcriptomic data collected by both IBERS researchers and collaborators and will gain world-class expertise in genomics, evolution and bioinformatics. They will be a member of the ecological and evolutionary genomics lab (<http://www.creeveylab.org>) under the direct supervision of Dr. Chris Creevey (<http://www.aber.ac.uk/en/ibers/staff/chc30/>) in IBERS.

The fully funded 3-year PhD scholarship pays UK/EU university tuition fees (currently £4,052pa) and a stipend of £14,057 per year. Applicants should hold, or expect to obtain, a minimum of a first or good upper-second class honours degree (or equivalent) in a relevant subject (e.g. Molecular/evolutionary Biology, Bioinformatics or Computer Science). Contact the lead supervisor Dr. Chris Creevey (chc30@aber.ac.uk) to discuss the project.

Deadline for applications: 30th September 2015

For more details on how to apply see: <http://www.findaphd.com/search/ProjectDetails.aspx?PJID=-3D66096&LID0> “Chris Creevey [chc30]”
<chc30@aber.ac.uk>

Adelaide Australia AncientMicrobeDNA

Paleoclimate analysis using ancient microbial DNA: The history of Antarctic melting

A PhD project is available at the Australian Centre for Ancient DNA (<https://www.adelaide.edu.au/acad/>) to use ancient Antarctic microbial records to reconstruct the impacts of past climate change. Microbial DNA preserved in ice cores will be used to reconstruct the history of Antarctic ice sheet behaviour over the last full glacial cycle (from 130 kyr), with major implications for understanding past periods of rapid sea level change and for providing baseline measures for global climate change models. The project has strong potential to make major contributions to our understanding of past climate change, and for informing predictive models for the next century.

The project is a collaboration with Prof. Chris Turney (<http://www.christurney.com>), and Dr Chris Fogwill (<http://www.bees.unsw.edu.au/chris-fogwill>), of UNSW in Sydney, and there is the potential for Antarctic field-work during the project.

A highly motivated candidate with strong initiative and organisational skills is required, with a background in environmental microbiology and an interest in climate change. A publication record would be a distinct advantage, and the position is open to both Australian and international candidates.

Contact Prof. Alan Cooper, alan.cooper@adelaide.edu.au, with a letter of interest, background information addressing the above criteria, and a CV by October 7, 2015.

alan.cooper@adelaide.edu.au

Basel GeneRegulationTheory

PhD position in theory/analysis of gene regulation

A PhD position is available in the group of Prof. Erik van Nimwegen at the Biozentrum of the University of Basel and Swiss Institute of Bioinformatics (<http://www.biozentrum.unibas.ch/research/groups-platforms/overview/unit/nimwegen/>). We are looking for highly motivated individuals with strong mathematical and computational skills that are interested to perform theoretical and computational research in the area of gene regulation.

Our research group is highly interdisciplinary, involving both an experimental section where researchers with a background in molecular biology are experimentally studying genome evolution and gene regulation at the single cell level in bacteria, and a theoretical section where researchers with backgrounds in theoretical physics, computer science, and applied mathematics are using techniques from Bayesian probability, evolutionary theory, dynamical systems theory, and stochastic processes, to study the function and evolution of genome-wide regulatory networks in cells. We are particularly interested in uncovering the principles by which genome-wide regulatory networks specify and maintain cell identity in multi-cellular organisms, how cells control and exploit the noise in gene regulatory processes, and how gene regulation evolves. A list of our group's publications can be found <https://scholar.google.ch/citations?user=3DN24KB1wAAAAJ>. Our lab also takes part in a number of collaborative projects within Switzerland including StoNets, which studies the ways in which cells control and exploit stochasticity in gene regulatory networks, and BrainStemX, which studies the gene regulatory networks underlying mammalian forebrain development. The precise topic of the PhD research project will be determined jointly with the candidate and candidates that display initiative and independence will be given priority.

Candidates should have strong mathematical and computational skills, and experience in such areas as stochastic processes, dynamical systems theory, and Bayesian statistics is a plus. Candidates do not necessarily have to have a biological background but should have a strong desire to directly work with experimental biological data and collaborate with experimental biologists. The candidates should have a good knowledge of English. German

is helpful but not necessary. The salary is generous and is set according to the guidelines of the Swiss National Science Foundation. The start date will be by mutual arrangement.

Basel is a very international city and a center of life science research, with over 900 life science research companies in the area, including Novartis and Roche. Several other academic institutions are also in the city, including the Friedrich Miescher Institute, the ETH Zurich Biosystems Science and Engineering Department, and the Swiss Tropical Institute. The city is less than 5km from both France and Germany and an hour and a half from the Swiss Alps.

To apply, please send a single pdf containing your application letter, CV, and the names of two references to erik.vannimwegen-at-unibas.ch. Review of applications will begin immediately.

Thomas Julou <thomas.julou@normalesup.org>

CityUNewYork ComparativePopGenetics

The Hickerson lab at the City University of New York (CUNY) has a new opening for a PhD student who is interested in developing models that link community ecology and comparative population genomics. Our group is focusing on developing and implementing methods for understanding the evolutionary and demographic histories of species assemblages given both ecological and aggregate population genomic data. Applications will focus on both continental and island systems including the Brazilian Atlantic Forest and the Canary Archipelago, but will be broadly applicable to a variety of regions.

The ideal candidate will have a strong interest and aptitude in quantitative biology, modeling, and programming as well as an interest in evolutionary genetics and biogeography. The lab welcomes qualified applicants with diverse backgrounds, including biology, anthropology, mathematics, physics, computer science, and related fields.

To offset teaching requirements, the PhD candidate will be supported by two different five-year grants funded by NSF and NASA.

Our lab is located in Manhattan and locally we have tight collaborations with the lab groups of Ana Carnaval (CUNY), Kyle McDonald (CUNY), Frank Bur-

brink (AMNH), and Brian Smith (AMNH), as well as international collaborations with Konrad Lohse (U. of Edinburgh, UK), Graham Stone (U. of Edinburgh, UK) and Brent Emerson (Canary Islands, Spain). CUNY has a large and thriving community of faculty, students, and post-docs studying ecology, evolution, and behavior and we benefit from the academic environment in New York City that allows us to have close ties to the AMNH, the New York Botanical Gardens as well as other local universities, including Columbia, Fordham, Rockefeller, NYU and Stony Brook.

The positions would start in the Fall of 2016. Contact mhickerson@ccny.cuny.edu if there is interest. Note that applications for Fall 2016 to the CUNY EEB subprogram must be received before January 1st of 2016.

For more information visit: <http://hickerlab.wordpress.com/> Michael J Hickerson Associate Professor City College of New York - Biology Department City University of New York Ecology, Evolution and Behavior Sub-Program 160 Convent Ave New York, NY 10031 lab 212-650-3457

Research Associate - Division of Invertebrate Zoology American Museum of Natural History <http://hickerlab.wordpress.com/> "mhickerson@ccny.cuny.edu" <mhickerson@ccny.cuny.edu>

DrexelU SymbiontDrivenAntagonisticEvolution

The Russell lab at Drexel University seeks strongly motivated and enthusiastic Ph.D candidates to join them in the Department of Biology for the Fall of 2016. The best applicants will have background experience in molecular ecology, genomics, evolutionary biology, or entomology.

Students will work on symbiosis between defensive bacteria, aphids, and their natural enemies. The graduate student's research will explore symbiont diversity at both the taxonomic and functional scales. It may also focus on symbiont-mediated antagonistic evolution between aphids and both parasitoid wasps and fungal pathogens. Alternatively, this work could focus on the patterns and mechanisms that drive the structuring of within-host symbiotic communities of aphids. FISH microscopy and bioinformatics will be among the tools utilized for this research, and both are supported by strong infrastructure and opportunities for training at Drexel.

Collaborators on this aphid research project come from other departments at Drexel and renowned institutions beyond, providing access to a wide network with diverse expertise. Through Jake Russell's joint appointment with Drexel's Biodiversity, Earth, and Environmental Sciences department, students will interact with a broad range of faculty and other grad students with interests in organismal biology, systematics, ecology, and evolution.

FOR MORE INFORMATION

Russell lab website: <http://www.pages.drexel.edu/~jar337/index.html> Researchgate website: https://www.researchgate.net/profile/Jacob_Russell/?ev=3Dhdr_xprf Application website: <http://www.drexel.edu/grad/programs/coas/biological-sciences/> Biology department website: <http://www.drexel.edu/biology/> BEES department website: <http://drexel.edu/bees/> Biologys Cell Imaging Center: <http://www.pages.drexel.edu/~bio/cores/cic/> Drexels Proteus Computer Cluster: <http://www.drexel.edu/research/urcf/services/cluster/> Interested students should contact Jake Russell to discuss their background and aspirations for Ph.D research.

Dr. Jacob A. Russell Associate Professor Department of Biology Drexel University Philadelphia, PA 19104 phone: 215-895-1643 e-mail: jar337@drexel.edu

Jacob Russell <jacob.a.russell.drexel@gmail.com>

DTUAqua Denmark PopulationGenomics

PhD Scholarship in population genomics

A PhD Scholarship in population genomics is available at the National Institute of Aquatic Resources (DTU Aqua; www.aqua.dtu.dk) with starting date December 2015. The scholarship is part of a larger Nordic collaborative project, MarGen, financed by the EU Interreg Öresund-Kattegat-Skagerrak Programme and the Danish Rod and Net License Funds. The project will primarily be carried out at the population genetics group in the Section for Marine Living Resources which is situated in Silkeborg, Denmark. DTU Aqua is an institute at the Technical University of Denmark.

Project description Marine fishes are valuable models for studying evolution in natural populations; however, population genetic research has so far been restricted to relatively few well-studied species. Interestingly, locally adapted populations have been identified, even under

high levels of reproductive connectivity. Technological developments in molecular characterization of genome-wide variation allow evolutionary questions, for example related to the number and size of genomic regions under selection, to be addressed in a much broader range of species. In this project, the candidate will work on fish populations from the transition zone between the full marine eastern Atlantic and the brackish water in the Baltic Sea. From this area, unique physiological adaptations to the different environments have been described, even in species which normally show low levels of population structure. The candidate will use high throughput genomic methods to generate genome-wide population genetic data for species distributed across the transition zone. Attaining genome-wide coverage in a number of species, hereunder flatfishes, across the same environmental gradient will facilitate general evolutionary insights on population divergence and adaptation to diverse environments. Such knowledge is also important for sustainable management of biodiversity in the region, and the candidate will work in the interphase between basic and applied science.

The successful candidate will be responsible for the analyses and publication of population genomic data from several species, thus strong analytical skills and interests are required. The candidate will also contribute to teaching at the Aquatic Science & Technology Masters programme at DTU Aqua and to the supervision of Bachelor and Master students.

Qualifications - We are looking for a candidate who has a Master of Science (M.Sc.) degree in Biology, Computer Science or Engineering - A background in population genetics and/or bioinformatics is preferred - Experience with analyses of next generation sequence data or other large scale genomic data sets will be advantageous - Keen interest in research and the field of marine and aquatic sciences - Proficiency in written and spoken English

Salary and appointment terms The salary and appointment terms are consistent with the current rules for PhD degree students at DTU; starting salary is around 3300 EUR per month + pension savings. The period of employment is 3 years.

Application Apply online at <http://www.aqua.dtu.dk/english/About/Vacancies/job?id=3D7ed25379-e94c-4414-8871-6ae76f07ed48> no later than 25 September 2015. For further information, please contact Senior Research Scientist Jakob Hemmer-Hansen; jhh@aqua.dtu.dk

Candidates may apply prior to obtaining their master's degree, but cannot begin before having received it.

All interested candidates irrespective of age, gender, race, disability, religion or ethnic background are encouraged to apply.

Jakob Hemmer Hansen <jhh@aqua.dtu.dk>

Finland Salmonid Thermal Adaptation

PhD student position: The genomics of rapid thermal adaptation in European grayling (2016-2019)

A 3.5 year PhD student position is available at the University of Turku, Finland to work in Prof. Craig Primmer's research group (<http://users.utu.fi/primmer>) on a project aiming to better understand the genetic basis of rapid adaptation to different thermal conditions in European grayling.

The PhD student project is a part of a recently funded project that will build on earlier research (e.g. Koskinen et al. 2002, Junge et al. 2011, Papakostas et al 2014) in the same grayling meta-population, and will involve genome sequencing and epi-genetic analyses to identify the genes and molecular processes contributing to rapid thermal adaptation.

Suitable candidates will have a strong background in evolutionary genetics/genomics and/or bioinformatics (in any species). Experience with epigenetic methodologies and/or R coding skills are also an advantage.

Informal inquiries should be directed to Prof. Craig Primmer (craig.primmer@utu.fi). Formal applications should include an academic CV (with names and contact details of at least two referees) and a max. 2 page letter of motivation, and can be submitted at <http://www.utu.fi/en/university/university-as-an-employer/open-vacancies/Pages/home.aspx>. The deadline for applications is Wed. September 30, with the preferred starting date being January 2016. The position is available until the end of August 2019. The starting salary is approx 2170 EUR per month.

Turku, Finland's 5th largest city (183 000 people), is located in southwestern Finland. It has a rich academic and cultural history and is the gateway to a beautiful archipelago. The University of Turku is one of the major multidisciplinary universities in Finland and is ranked in the top 1.6% of universities in the world.

Junge C, VÅllestad L A, Barson NJ et al. (2011) Strong gene flow and lack of stable population structure in

the face of rapid adaptation to local temperature in a spring-spawning salmonid, the European grayling (*Thymallus thymallus*). *Heredity*, 106, 460-71. Koskinen MT, Haugen TO, Primmer CR (2002) Contemporary fisherian life-history evolution in small salmonid populations. *Nature*, 419, 826-830. Papakostas S, VÅllestad LA, Bruneaux M et al. (2014) Gene pleiotropy constrains gene expression changes in fish adapted to different thermal conditions. *Nature Communications*, 5, 4071.

Craig Primmer, Academy Professor Division of Genetics and Physiology Department of Biology, University of Turku, FINLAND

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Florida Int'l U Evolution Adaptation

Graduate Student (PhD) positions available in Dr. Eirin Lopez's Chromatin Structure & Evolution Lab (Department of Biological Sciences, Florida International University) starting in Fall 2016.

We are looking for enthusiastic, dynamic and independent students broadly interested in studying the interface between evolution, epigenetics and adaptation in marine organisms. Students would ideally have a B.S. degree in Biology or related discipline (academic training in biology, statistics, genetics and evolution) and must be proficient in English (both spoken and written). Candidates with additional knowledge on computer science and/or bioinformatics are encouraged to apply. Our research addresses the study of chromatin and epigenetics from different perspectives, most notably evolution, development and adaptation. To this end we use marine invertebrates as model systems in the lab, as well as a wide range of eukaryote groups in molecular evolutionary analyses. Our current projects combine elements from marine biology, toxicology, molecular biology, biochemistry, next generation sequencing, bioinformatics and molecular evolution to address environmental problems in the oceans. Our work requires good organizational and computational skills and the ability to work collaboratively as part of a team. Detailed information about our research is available at our website (chromevo.com).

Follow us in Facebook ([facebook.com/chromeevol](https://www.facebook.com/chromeevol)) and Twitter (@chromeevol).

Potential research topics include (but are not limited to):

- 1) Characterization of epigenetic mechanisms underlying environmental responses and adaptation in marine invertebrates. This research addresses the roles of DNA methylation, histone variant modifications and other epigenetic mechanisms during responses to environmental stressors, notably by using bivalve molluscs and corals as model organisms.
- 2) Development of high-throughput “-omic” tools improving pollution biomonitoring in coastal areas. This topic focuses on the development of methods that can be routinely used to identify early exposure of marine organisms to genotoxic pollutants (e.g., microarrays, qPCR, proteomic analyses, etc.), specially in the case of commercially relevant shellfish, marine mammals and other megafauna.
- 3) Molecular evolutionary and phylogenetic analysis of chromosomal proteins in metazoans. This objective builds on the molecular evolutionary tradition of our group, studying the mechanisms governing the diversification/differentiation of gene and protein families across eukaryotes and their consequences for organismal evolution.

Related research topics are also welcome. Interested students will be required to apply to the Graduate Program in the Dept. of Biological Sciences at FIU (<http://biology.fiu.edu/graduate/>). Acceptance in the lab will be subject to successful application for Teaching Assistantship funds (TAs). Interested students are also strongly encouraged to apply for graduate research fellowships (e.g., National Science Foundation Graduate Research Fellowship). In order to be considered, qualified candidates must submit a statement of interest, curriculum vitae, unofficial transcripts (GPA scores), GRE scores, TOEFL scores (if applicable) and summary of research interests in a single PDF file to Dr. Eirin-Lopez (jeirinlo@fiu.edu). To receive full consideration, applications and required materials should be received as soon as possible, and never later than November 30th.

Successful candidates will be based at FIU's Biscayne Bay Campus (BBC) in North Miami, home of the Marine Science Program (marine.fiu.edu). With unique access to diverse coastal ecosystems in South Florida and the Caribbean, this Program strives for excellence in research, teaching, and public outreach. Such a privileged location offers unique access to state of the art molecular, bioinformatics and marine biology resources, including a well-developed American Advancement for

Underwater Science (AAUS) certified dive program and several research vessels and boating facilities. Florida International University (fiu.edu) is Carnegie-designated as both a research university with high research activity and a community-engaged university. Located in the heart of the dynamic south Florida urban region, our multiple campuses serve more than 50,000 students, placing FIU among the ten largest universities in the nation. Our annual research expenditures in excess of \$100 million and our deep commitment to engagement have made FIU the go-to solutions academic institution for issues ranging from local to global. FIU is a member of the State University System of Florida and is an Equal Opportunity, Equal Access Affirmative Action Employer.

jeirinlo@fiu.edu

GeorgiaTech QuantBioSciences

Georgia Tech Welcomes Applications for a New PhD program in Quantitative Biosciences

Georgia Tech is actively recruiting strong undergraduates from the physical sciences, biological sciences, mathematics, engineering and computing to join an interdisciplinary Ph.D. program in Quantitative Biosciences (QBioS) at Georgia Tech. Applications are welcome by December 15, 2015 for entrance in August 2016:

<http://qbios.gatech.edu> The QBioS Ph.D. at Georgia Tech was established in 2015 by an interdisciplinary group of over 40 participating program faculty from seven schools in the College of Sciences, including Applied Physiology, Biology, Chemistry and Biochemistry, Earth and Atmospheric Sciences, Mathematics, Physics and Psychology:

<http://qbios.gatech.edu/people/faculty> The mission of QBioS at Georgia Tech is to educate students and advance research in quantitative biosciences, enabling the discovery of scientific principles underlying the dynamics, structure, and function of living systems. The Ph.D. training program is designed to prepare students from a diversity of backgrounds for fulfilling careers in academia, industry and government. The training program features:

- * Foundational courses in Quantitative Biosciences *
- * Rotations in modeling and/or experimental groups *
- * Selection of thesis advisor from all program faculty *

Rigorous and personalized quantitative training * Five-year program of study from entrance to defense

Interested students should apply via the links here:

<http://qbios.gatech.edu/prospective-student/overview>

Students are encouraged to email us at admissions@qbios.gatech.edu for more information, as well as consult the FAQs for information on courses, research, and applications materials:

<http://qbios.gatech.edu/prospective-student/faqs>

Thank you for your consideration.

Sincerely, Joshua Weitz Associate Professor of Biology
 Courtesy Associate Professor, School of Physics
 Director, Interdisciplinary Graduate Program in Quantitative Biosciences
 Georgia Institute of Technology Atlanta, GA, USA
 Web: <http://qbios.gatech.edu> Twitter: @QBioS-GT

on behalf of the QBioS graduate committee

Young-Hui Chang, Associate Professor of Applied Physiology
 Jennifer Curtis, Associate Professor of Physics
 James Gumbart, Assistant Professor of Physics
 Christine Heitsch, Associate Professor of Mathematics
 Taka Ito, Associate Professor of Earth and Atmospheric Sciences
 Patrick McGrath, Assistant Professor of Biology
 Christine Payne, Associate Professor of Chemistry and Biochemistry
 Soojin Yi, Professor of Biology

“Joshua S. Weitz” <jsweitz@gatech.edu>

iBiK-F Frankfurt ModelingEvolution

The Senckenberg Gesellschaft für Naturforschung (SGN), a member institution of the Leibniz Association, with almost 800 employees and its headquarters in Frankfurt am Main, is conducting advanced natural history research with leading research institutions in six federal states. The Senckenberg Biodiversity and Climate Research Centre (BiK-F) is exploring in this context the interactions between organismic biodiversity and climate.

For the new DFG project “EarthShape: Earth Surface Shaping by Biota”, the working group of Prof. Thomas Hickler invites applications for a

PhD Position: Coupled Landscape Evolution and Dynamic Vegetation Modeling from the Last Glacial Maximum to Present

The EarthShape project (www.earthshape.net) will explore how biologic processes form soil, influence topography, and thereby shape the earth surface. You will work in a consortium of 13 interdisciplinary projects comprising 17 new PhD students encompassing the fields of Geology, Ecology, Soil Sciences, Geography, Microbiology, Geophysics, and Geochemistry. EarthShape research will be conducted at four study sites within the Chilean Coastal Range that features one of Earth’s most spectacular vegetation gradients and is controlled by climate ranging from hyper-arid to humid temperate. It is a natural laboratory to study how biology and topography interact. You will be trained in interdisciplinary methods and conduct joint fieldwork and EarthShape events.

Your tasks

- Adapt a dynamic global vegetation model (LPJ-GUESS) for the study region - Simulate climate-driven changes in vegetation since the Last Glacial Maximum and compare the results to various proxies of environmental and vegetation change - In collaboration with the research group of Prof. Todd Ehlers (Tübingen): couple the vegetation model to a landscape evolution model - Collaborate with other members of the project to test different hypotheses concerning the interactions between vegetation and landscape evolution, in particular regarding soil erosion

Your profile

- Master’s degree or diploma in Geography, Biology, Environmental Science, Physics, Environmental Modelling, Ecology or related fields - Strong programming skills, ideally in C++ - Interest in vegetation dynamics and ecosystem science - Interest to work in interdisciplinary teams

Salary and benefits are in accordance with a public service position in Germany (E13, 75%). The contract shall start no later than December, 1st 2015 and will be limited to a 3-year term. The Senckenberg Research Institute supports equal opportunity of men and women and therefore strongly invites women to apply. Equally qualified handicapped applicants will be given preference. The duty station will be Frankfurt am Main, Germany. The employer is the Senckenberg Gesellschaft für Naturforschung.

Please send your application until October, 14th 2015 preferably by e-mail (attachment in a single pdf document), mentioning the reference of this position (Ref. # 8.8) and including a letter outlining your suitability and motivation, detailed CV, all transcripts and grades, contact details of two potential references, a summary of your Master’s or Diploma thesis and, if available,

publications to the address below:

Herrn Dr. Tobias Schneck c/o Senckenberg Gesellschaft für Naturforschung Senckenberganlage 25 60325 Frankfurt E-Mail: recruiting@senckenberg.de

For scientific enquiries please get in contact with Prof. Dr. Thomas Hickler. E-Mail: Thomas.Hickler@senckenberg.de

[recruiting <recruiting@senckenberg.de>](mailto:recruiting@senckenberg.de)

INRA Nancy France FungalQuantitativeGenetics

Subject: GradStudentPositions:

INRA_Nancy_France.FungalQuantitativeGenetics

Applications are invited for a PhD position to be held at INRA Nancy (France) on the following topic: Genetic architecture of pathogenicity-associated life history traits in the poplar rust fungus.

You can find more information here: <http://mycor.nancy.inra.fr/IAM/?p=3D5260> Application: Send CV, cover letter and contact details of two referees to Pascal Frey (pascal.frey@nancy.inra.fr) before 1 October 2015. Feel free to forward this announcement to potentially interested candidates. Apologies for cross postings.

Best regards, Pascal Frey

Dr Pascal FREY INRA, University of Lorraine Department of Tree - Microbe Interactions Ecology of Forest Pathogenic Fungi team UMR1136 IAM F-54280 Champenoux FRANCE Phone: 33 383 394 056 Mobile: 33 6 31 45 94 07 E-mail: pascal.frey@nancy.inra.fr http://mycor.nancy.inra.fr/IAM/?page_id=3D731 Pascal Frey <pascal.frey@nancy.inra.fr>

IPasteur PopCompGenomics

The new call is open for the Pasteur - Paris University International Doctoral program, for students beginning in October 2016.

This doctoral program began in 2009 in the vibrant research environment of the Institut Pasteur in Paris,

France, and has grown in each succeeding year. For details, see:

www.pasteur.fr/doctoralpositions The current list of projects and laboratories is available on our website:

<http://www.pasteur.fr/en/teaching/doctoral-programs/pasteur-paris-university-international-doctoral-program/current-call-0> Among these projects, there is an opening PhD position in the Quintana-Murci lab on the topic “Genetic, epigenetic and evolutionary factors driving human immune response to infection”

Genetic, epigenetic and evolutionary factors driving human immune response to infection - See more at: <http://www.pasteur.fr/en/teaching/doctoral-programs/pasteur-paris-university-international-doctoral-program/current-call-0#sthash.g04BaE8R.dpuf>

The deadline for candidates to contact laboratories of interest is November 6, and the deadline for the application (to be prepared together with the laboratory) is November 20, 2015. See the website for the application procedure.

This doctoral program is for students who have obtained or will obtain a Master degree (or equivalent) in the life sciences from a non-French University. All students accepted into the program will receive a salary for living expenses, health insurance and paid tuition. The program is run in English and knowledge of French is not required. Eligibility criteria are listed on the website (see ‘Application information’ and “FAQ”).

If you know some talented undergraduates with a strong passion for science who may be interested in this outstanding opportunity to do a PhD, please give them the attached flyer. We would appreciate it if you would forward this mail to other colleagues.

A slide may be downloaded at www.pasteur.fr/en/teaching/doctoral-programs/pasteur-paris-university-international-doctoral-program/overview For further information, please write to phd@pasteur.fr

Informal enquiries about the position in the Quintana-Murci lab should be emailed to Lluís Quintana-Murci at <quintana@pasteur.fr>.

Lluís Quintana-Murci <lluis.quintana-murci@pasteur.fr>

LaTrobeU PlantTaxonomy

PhD Opportunity: Next-generation sequencing and bioinformatics to explore taxonomic boundaries in the *Grevillea Floribunda* subgroup

The Hoebee/Edwards lab at La Trobe University, Melbourne, Australia, is seeking a high calibre PhD applicant to contribute to a study on taxonomic boundaries in the *Grevillea Floribunda* subgroup. The PhD project is principally laboratory-based using a reduced representation genomic method (ddRADseq) and bioinformatic approaches to delineate evolutionary units. However, there is also scope for some field work related to floral traits and pollination biology that will be used to inform the systematic analyses. This is a collaborative project between La Trobe University and Royal Botanic Garden and Domains Trust Sydney (RBG&DT, Sydney) with research funding via the ARC Discovery scheme. For molecular studies the student will primarily be co-supervised by Dr Susan Hoebee and Prof Peter Weston (RBG&DT, Sydney). Dr Trevor Edwards will provide significant supervision for the pollination biology component. The student will be based at La Trobe University's Melbourne (Bundoora) Campus.

Eligibility: Applicants must possess a Bachelor's degree with Honours, Master of Science or equivalent degrees. Australian and New Zealand applicants must have received first class Honours degrees. Interested candidates should send an e-mail outlining their research interests and experience, together with a CV, academic transcript and details of two academic references to Dr Susan Hoebee (s.hoebee@latrobe.edu.au).

Australian applicants will need to apply for a Postgraduate Scholarship (approx. \$25,500 AUD, tax-free) through La Trobe University to cover their living expenses, see: <http://www.latrobe.edu.au/research/future/scholarships> International applicants will require a Postgraduate Scholarship to cover their living expenses and a Fee Remission Research Scholarship to cover tuition costs, see: <http://www.latrobe.edu.au/international/fees/scholarships/research> Of course students able to attract other international scholarships are also welcome to apply.

Potential applicants should make contact as soon as possible and at least three (3) weeks prior to the closing dates. The closing date for Australian/New Zealand scholarships is 31 October 2015. For international ap-

plicants the closing date is 30 September 2015.

Information about Molecular Biodiversity Research in the Department of Ecology, Environment and Evolution at La Trobe can be found at: <https://molecularbiodiversity.wordpress.com> For information on the Department of Ecology, Environment and Evolution, see: <http://www.latrobe.edu.au/ecology-environment-and-evolution> For further information please contact Dr Susan Hoebee (s.hoebee@latrobe.edu.au).

"s.hoebee@latrobe.edu.au" <s.hoebee@latrobe.edu.au>

Liverpool GenomicsMolecularEvolution

PhD Studentship in Genomics and Molecular Evolution
Liverpool John Moores University - School of Natural Sciences and Psychology

Duration of Studentship: 36 months.

We have a fully funded studentship for a doctoral student to join Dr Maxim Kapralov in an exciting project at the interface between Genomics, Molecular Evolution and Plant Sciences. The position is available immediately and applications will be reviewed on a rolling basis. Please note that due to funding regulations the position is available to UK or EU nationals only.

Project title: Disentangling three billion years of co-evolution between Rubisco and its chaperones for crop biotechnology.

Project description:

Population growth puts increasing demands on agriculture while the world's crop productivity is stagnating. At the same time efficiency of photosynthesis has been little changed, and remains below its biological limits. The next green revolution will be based on increasing the efficiency and productivity of photosynthesis in crop plants via its re-engineering using computational and genetic techniques, and will be one of the greatest scientific challenges in the coming decades for both academia and business alike.

The aim of this project is to answer the question "Could we improve global crop yield by re-engineering key photosynthetic enzymes and their chaperones using evolutionary algorithms?" which involves understanding of molecular coevolution between the Rubisco enzyme complex and its numerous assembly and catalytic chaper-

ones, which performance limits photosynthetic efficiency in plants. Bioinformatics analysis will be combined with genetic engineering of model organisms to prove the validity of the concept that plant productivity could be increased by re-engineering Rubisco and its chaperones.

The student will develop skills in bioinformatics and biotechnology - two areas with high employability in academia and private sector alike. Training in computational and molecular laboratory techniques will be provided at the Liverpool John Moores University by Dr Maxim Kapralov, while training in the state of the art plant transformation and biotechnology techniques will be provided by Dr Spencer Whitney during student's visit to the Australian National University.

Whitney SM, Birch R, Kelso C, Beck JL, Kapralov MV (2015). Improving recombinant Rubisco biogenesis, plant photosynthesis and growth by coexpressing its ancillary RAF1 chaperone. *Proceedings of the National Academy of Sciences*, 112(11), 3564-3569.

Any specific eligibility requirements:

The project is predominantly computationally-based and can accommodate a person with bioinformatics/modelling/computational/structural biology background who is willing to get his/her hands 'wet' for a short period during PhD and develop experimental skills to broaden his/her horizons. However, candidates with 'wet' laboratory background who have some bioinformatics/coding experience and are willing to walk this extra mile and develop their computational skills are encouraged to apply too. Applicants should have a first or a very good upper second undergraduate degree (or overseas equivalent) in either bioinformatics or biology.

In the first instance make an informal enquiry by e-mail to Dr Maxim Kapralov m.v.kapralov@ljmu.ac.uk by sending a CV with contact details of two academic referees. Your e-mail should have as its subject "Application for PhD". It is essential that you give the grades of all degrees and state your nationality.

Dr Maxim Kapralov

Senior Lecturer in Plant Physiology || School of Natural Sciences and Psychology || Liverpool John Moores University || Room 2.07 || Life Sciences Building || Byrom Street || Liverpool || L3 3AF || United Kingdom || t: +44 (0)151 904 6313 || email: m.v.kapralov@ljmu.ac.uk || <http://scholar.google.co.uk/citations?user=-3DqTUIBcYAAAAJ&hl=3Den&coi=3Dao> "Kapralov, Maxim" <M.V.Kapralov@ljmu.ac.uk>

MacquarieU Sydney LandscapeGenomics

Drivers of landscape genetic patterns and environmental adaptation in grasshoppers

An exciting PhD opportunity in landscape genomics is available in the Department of Biological Sciences at Macquarie University in Sydney, Australia, to commence early 2016. The successful candidate will investigate how landscape and environmental features affect dispersal and local adaptation using genomic data together with ecological variables. The focal species is the native wingless grasshopper (*Phaulacridium vittatum*), which is an economically important grasshopper pest that causes damage to agricultural pastures and horticultural crops in Australia. Field work will be conducted along a latitudinal and altitudinal gradient of New South Wales in Australia. The 'wingless' grasshopper has both winged and wingless forms and shows colour polymorphism that varies geographically, opening up many evolutionary questions. This project has relevance for understanding the consequences of climate change-induced range shifts for pest spread and persistence. With both applied and theoretical outcomes, this project offers the opportunity to provide information relevant for pest management, biosecurity and conservation biology, while developing novel methodologies in landscape genomics. The candidate will apply the latest genome sequencing technologies and bioinformatics approaches, including identifying functional genes involved in local adaptation and opportunities for simulation modelling.

The successful candidate will be encouraged to develop independent avenues of research within the study system that fit her/his research interests. We are looking for a highly-motivated candidate who is passionate about science and has a strong background in evolutionary or conservation biology/genomics. A strong interest or experience in bioinformatics, GIS, independent programming in unix/python/perl, and data analysis skills in R is highly favourable. Experience in the fields of landscape ecology and population genetics is also desirable. Interested candidates must meet the PhD admission criteria (please contact for further information).

The PhD candidate will be under the primary supervision of Dr. Rachael Dudaniec in the Landscape Genomics Lab in the Department of Biological Sciences at

Macquarie University. The PhD will be funded under a Macquarie University HDR scholarship for three years with a tax-free stipend of approximately AUD\$25,849 per annum. For further information or to apply please send your CV to: rachael.dudaniec@mq.edu.au Website: dudanieclab.weebly.com

Rachael Dudaniec, PhD Lecturer in Biological Sciences (Conservation Biology) Room E8C249 Department of Biological Sciences Macquarie University Sydney, Australia, 2109 Phone: +61 (2) 9850 8193 email: rachael.dudaniec@mq.edu.au twitter: @rdudaniec

rachael.dudaniec@mq.edu.au

MaxPlanck EvolutionaryInteractions

We would like to announce the extension of the deadline for applications to the four PhD fellowships in Molecular and Chemical Ecology from the International Max Planck Research School “The exploration of Ecological Interactions with Molecular and Chemical Techniques”. The new deadline for applications is 12 pm (midnight CEST) on September 11.

The International Max Planck Research School (IMPRS) “The Exploration of Ecological Interactions with Molecular and Chemical Techniques” in Jena, Germany, invites applications for 4 PhD fellowships beginning in January 2016. The overarching research topic is the use of molecular, chemical and neuroethological techniques to experimentally explore ecological interactions under natural conditions. The main focus is on the relationship between plants, microbes and herbivores, and their environment, as well as the evolutionary and behavioral consequences of these interactions.

We offer 10 exciting projects focusing on different organisms and approaches. The complete list of projects offered including project descriptions is available on our website. We are looking for enthusiastic PhD students with strong interests in the above-described central topic. Applicants should have a firm background in one of the following fields: ecology, bioinformatics, analytical chemistry, entomology, neurobiology, molecular biology, biochemistry, plant physiology and genetics. All our projects are highly integrative and require willingness to closely collaborate with researchers of different backgrounds.

The Research School is a joint initiative of the Max Planck Institute for Chemical Ecology, Friedrich Schiller

University, Jena, the Leibniz Institute for Natural Product Research and Infection Biology, and the Leibniz Institute of Plant Genetics and Crop Plant Research. We offer state-of-the art equipment, an excellent research environment, supervision by a thesis committee and a structured training program including scientific courses, training in transferable skills and internal conferences. Successful candidates will receive an IMPRS fellowship. There are no tuition fees and the working language is English.

Application deadline is September 11, 2015.

For detailed information on the IMPRS, projects offered and application requirements, please visit our website <http://imprs.ice.mpg.de/>. Please apply online at <https://imprs-reg.ice.mpg.de> – Mariana A. Stanton

Department of Molecular Ecology Max Planck Institute for Chemical Ecology Jena - Germany Phone: +49 (0) 3641 57 1119 <http://www.ext/hopa.html?pers=mast4410&d=itb> International Max Planck Research School Max Planck Institute for Chemical Ecology <http://imprs.ice.mpg.de> mstanton@ice.mpg.de

MaxPlanckInst AvianWaterfowlGenomics

Dear all,

In the framework of B10K (<http://b10k.genomics.cn/>) I am building a team to address the sequencing of all species within the family Anseriformes. We have recently acquired the funds for sequencing the genus-phase of Anseriformes and the project is going to start as soon as possible. One species for each genus of this bird family will be genome-sequenced by the B10K standards. This will contribute to the overall aims of B10K as well as Anseriform-specific aims, such as questions regarding the genomics of hybridisation and species boundaries, or the evolution of the immune system.

There are more than 50 genera in the Anseriformes and my group will therefore have access to a large number of genomes to be analysed comparatively in this framework. I am searching for a motivated and talented PhD candidate to become part of my team. We expect you to be skilled in Linux-based remote computing, and have experience with genome-scale data analysis. Wet-lab or field work is not intended to be part of this project. Significant challenges lie ahead in the data analysis and comparative genomics of this non-model bird group!

Additionally, although the first steps will as usual be technical bioinformatics, the prospective PhD student is expected to be grounded in Ecology and Evolution, and follow an agenda to ignite questions on the overall biology of Anseriformes in this context.

The graduate school of the Max-Planck-Institute for Ornithology in southern Germany (IMPRS; http://www.orn.mpg.de/2453/Short_portrait) offers scholarships to candidates who apply with their own proposal with a supervisor - me in this case (http://www.orn.mpg.de/409052/-employee_page?c=642473&employee_id=37987 and <http://www.orn.mpg.de/642473/Disease-Ecology-and-Evolutionary-Genetics>). Please be aware that these positions are available to the other research groups, too, and candidates will be selected among a topically diverse set of applicants, solely based on personal and project-related excellence. Detailed information on the call for PhD proposals are to be found here: http://www.orn.mpg.de/3466014/DAAD_Positions2015. The timeline is as follows:

Nov 18th: official publishing of the 2016 call for PhD applications of our graduate school IMPRS
 mid-January: application deadline
 mid-March: presentations and interviews of selected applicants

Send me an email until Nov. 15th with a single PDF document that contains:

- a general motivation letter (max 1 page) - a brief outline of your ideas specific to the Anseriform Genome Project (max 2 pages - no references, only ideas) - CV

Cheers, Robert

- Dr. Robert H.S. Kraus

Assistant Professor - Disease Ecology and Evolutionary Genetics <http://www.orn.mpg.de/642473/Disease-Ecology-and-Evolutionary-Genetics> I am on Twitter @rhskraus!

Group Wikelski; Biology Konstanz University, Room Z805 D-78464 Konstanz

Max Planck Institute for Ornithology Am Obstberg 1 D-78315 Radolfzell

tel. 0049-(0)-7531-88-3479 robert.kraus@uni-konstanz.de

“Chance favours a prepared mind”

- *Dr. Robert H.S. Kraus

/Assistant Professor/* - Disease Ecology and Evolutionary Genetics <http://www.orn.mpg.de/642473/Disease-Ecology-and-Evolutionary-Genetics> I am on Twitter @rhskraus!

/Group Wikelski; Biology Konstanz University, Room Z805 D-78464 Konstanz / /Max Planck Institute for Ornithology Am Obstberg 1 D-78315 Radolfzell / tel. 0049-(0)-7531-88-3479 robert.kraus@uni-konstanz.de

/_“Chance favours a prepared mind”_/_

Robert Kraus <robert.kraus@uni-konstanz.de>

MonashU Adaptation Environmental Change

PhD Student Position studying the genetic basis of adaptation to environmental change Monash University, Melbourne Australia

An opportunity is available for two PhD students to join Carla Sgr²'s research group in the School of Biological Sciences at Monash University, in Melbourne, Australia. We are seeking creative and motivated students who wish to carry out original research on the genetic basis of adaptation to environmental change. Individuals with a background in evolutionary biology, quantitative genetics or evolutionary genetics are invited to apply. Those with strong quantitative and computational skills are particularly encouraged. Specific projects are flexible, potentially interdisciplinary, and include opportunities to carry out new research in experimental evolutionary biology. Specific research plans will be developed in collaboration with each successful candidate, and tailored to match their individual interests and strengths. To find out more about the interests of my group, please visit www.carlasgrolab.org. Successful candidates will be fully funded for 3.5 years, for full time research, and with no teaching requirements. The annual stipend is approximately \$25,000 AUD, tax-free, and additional expenses for research, coursework, and conference attendance (once per year) will also be covered. Both Australian/NZ domestic and international students are eligible to apply. Domestic candidates will be invited to apply for an Australian Postgraduate Award, and if successful, will be awarded an annual tax-free stipend of approximately \$25,000 AUD. Top ranked candidates receive a top-up scholarship of \$5,000 and students moving interstate or from NZ are eligible for a one-off moving scholarship of \$3,000. All Monash PhD students also receive approximately \$3,000 worth of travel funds to attend conferences during their degree.

Monash University is a member of Australia's Group of Eight coalition, and is internationally recognized for

excellence in research and teaching. The School of Biological Sciences is home to a collegial and interdisciplinary research environment, with strengths in ecology, genetics and evolutionary biology. The Monash doctoral program includes additional training opportunities beyond the research program that enhance employability post degree. Monash is located in Melbourne, one of the most liveable cities in the world and a cultural and recreational hub. To apply, please send a CV, academic transcript, and a brief outline of research interests and goals to carla.sgro@monash.edu. Informal inquiries are also welcome at the same address. Applicants must hold a Bachelor's degree with first-class honours, or a master's degree. Review of applications will begin immediately, and short-listed candidates will be contacted to set up phone/Skype interviews.

Dr Carla M. Sgro² Associate Professor and ARC Future Fellow School of Biological Sciences Building 18, Monash University Clayton Campus Wellington Rd, Clayton 3800 Melbourne, Victoria Australia

Email: carla.sgro@monash.edu

<http://carlasgrolab.org> carla.sgro@monash.edu

MonashU AdaptationSexualDimorphism

A PhD project is available at Monash University's School of Biological Sciences (Melbourne, Australia) to work with Damian Dowling and Tim Connallon. We are seeking a highly motivated student who wishes to carry out original research on the genetic basis of fitness variation and sexual dimorphism, broadly defined. Candidates should have a strong work ethic and a deep curiosity about evolutionary biology. Good lab and communication skills are essential. Quantitative skills, including computer programming, are a plus.

Project overview: New mutations play a fundamental role in adaptive evolutionary change, yet the mutational architecture of phenotypic and fitness variation remains understudied. In this project, the student will address key unanswered questions in biology by examining the evolutionary dynamics and consequences of spontaneous mutations across the genome. The research will unravel the unique mutational properties of different genomic regions, as well as the prevalence and distribution of sex-specific mutational effects across the genome. The project can involve a combination of empirical research

on *Drosophila* fruit flies, quantitative analyses of high throughput datasets (life history and transcriptomic), and theoretical modelling.

The successful candidate will apply for a scholarship package through Monash University, which provides a tax-free annual stipend (current rate of AUD\$25,849 p.a., equalling \$994 per fortnight) and full waiver of tuition fees for the duration of the doctoral program (for three years). The successful student can further supplement their annual income by contributing to the undergraduate teaching classes of Dowling and Connallon, by acting as laboratory class demonstrators and tutors. All research expenses will be fully covered, as well as costs associated with all postgraduate coursework and conference attendance.

Monash University is a member of Australia's Group of Eight coalition, and is internationally recognized for excellence in research and teaching. The School of Biological Sciences (<http://monash.edu/science/about/schools/biological-sciences/>) is home to a collegial and interdisciplinary research environment, with strengths in evolutionary biology, genomics and ecology. Monash is located in Melbourne, a highly liveable and multicultural city.

The successful applicant will be hosted within the lab groups of Dowling and Connallon, which currently consist of 14 researchers, and will offer a very interactive and vibrant environment for the successful candidate. Further information on the research programs of Dowling and Connallon, including recent publications, can be found at: damiandowlinglab.com and timconnallon.com

To apply, please send a CV, academic transcript, contact details for two academic references, and a brief outline of research interests to damian.dowling@monash.edu and tim.connallon@monash.edu

Informal inquiries are also welcome at the same addresses. Applicants must have completed a four-year undergraduate degree, or Bachelors degree with first-class honours, or a masters degree by October 31, 2015. Review of applications will begin immediately, and short-listed candidates will be contacted to set up phone/Skype interviews.

tim.connallon@monash.edu

MonashU EvolSexGenomeConflictAgeing

PhD in evolutionary ecology / genomics:

Two PhD positions are available in the research group of Dr Damian Dowling, at Monash University, Australia.

The topic of the project can be flexible, and discussed with Dr Dowling in advance of the application. The successful applicant will have the capacity to develop their own interests within the general field of experimental evolutionary biology for the duration of the PhD candidature. Applicants with research interests that draw on one or some of the following areas of interest to the Dowling lab, will be particularly encouraged:

- Evolutionary coadaptation and conflict between mitochondrial and nuclear genomes
- The evolution of ageing
- Sexual selection, sexual conflict and adaptation
- Adaptive transgenerational plasticity and the evolutionary implications of non-genetic maternal and paternal effects

Successful applicants will be highly motivated, and passionate about evolutionary biology; familiar with basic evolutionary concepts, understand the core tenets of experimental design, and have strong quantitative skills. Some expertise or interest in evolutionary genomics is desirable, but not essential. The applicants will join a vibrant research group comprised of other PhD students and postdoctoral researchers, perfect for the pursuit of academic excellence and professional development, with access to state-of-the-art technology platforms for the study of evolutionary ecology and genomics.

The positions include funding for international and national conference visits, and for all research costs. The successful applicants will be awarded scholarships that cover salary (current rate is \$25,849 tax-free per year), and full waiver of fees, and can choose to supplement their salary through teaching assistance during undergraduate lab courses run by Dowling and colleagues.

Monash University is a member of Australia's Group of Eight a coalition of research-intensive universities, and is internationally recognized for excellence in research and teaching. The School of Biological Sciences (<http://monash.edu/science/about/schools/->

[biological-sciences/](http://monash.edu/science/about/schools/-)) is home to a collegial and world class research environment, with key strengths in evolutionary ecology and genomics.

Monash is located in Melbourne, a vibrant cultural and recreational centre, and is consistently rated one of the world's most liveable cities (http://en.wikipedia.org/wiki/World's_most_livable_cities).

Interested students should contact damian.dowling@monash.edu for further information, and attach a CV, academic transcript, contact details of two academic referees, and a description of their research interests.

For further information on these scholarships and Monash application procedures, please visit <http://monash.edu/science/about/schools/biological-sciences/postgrad/> For further information on the research group of Damian Dowling, visit <http://damiandowlinglab.com> Review of applications will commence immediately, with applications closing on October 4th 2015.

Dr Damian Dowling

Email: damian.dowling@monash.edu

Website: damiandowlinglab.com

Google scholar: <http://scholar.google.com.au/citations?user=QwJLmTgAAAAJ&hl=en> Twitter: @DK_Dowling

Damian Kimon Dowling
<damian.dowling@monash.edu> Damian Kimon Dowling <damian.dowling@monash.edu>

MonashU EvolutionaryTheory

A PhD project is available at Monash University's School of Biological Sciences (Melbourne, Australia) to work with Tim Connallon. I am seeking highly motivated students who wish to carry out original research in evolutionary theory. Candidates should have a solid work ethic, a deep curiosity about evolutionary biology, and strong communication skills. Prior experience with mathematical and/or simulation modelling will be a plus.

Project overview: Evolutionary biology and ecology rely heavily on mathematical models that facilitate conceptual links between empirical observations and the evolutionary and ecological processes that can give rise

to them. Models provide us with the means to better understand the data that we have, and to make new and testable predictions that motivate future experiments, new data collections, and novel statistical analyses. The PhD research will involve developing new models with these general aims in mind. The research will fall broadly within the realm of evolutionary theory, though specific details are flexible, and each project will be developed by collaboration. Areas of current interest in the lab include (but are not limited to): – The evolution of sexual dimorphism – The maintenance of genetic variation in quantitative traits and fitness – The genetic basis of adaptation – The role of genetic constraints in adaptation – The evolution of genome structure and organization – Sex chromosome evolution – Interactions between dispersal and local adaptation The student could also potentially carry out original analyses of publicly available data, including large-scale genomic and transcriptomic datasets.

The successful candidate will apply for a scholarship package through Monash University, which provides a tax-free annual stipend (current rate of AUD\$25,849 p.a., equalling \$994 per fortnight) and full waiver of tuition fees for the duration of the doctoral program (for three years). Additional scholarship opportunities (via funding to T.C, and with the same rate of support) are available for qualified applicants. The successful student can further supplement their annual income by contributing to undergraduate teaching, by acting as a laboratory class demonstrator and tutor. All research expenses will be fully covered, as well as costs associated with all postgraduate coursework and conference attendance.

Monash University is a member of Australia's Group of Eight coalition, and is internationally recognized for excellence in research and teaching. The School of Biological Sciences is home to a collegial and interdisciplinary research environment, with strengths in evolutionary biology, genomics and ecology. Monash is located in Melbourne, a highly liveable and multicultural city. The successful applicant will be hosted within the Connallon lab group, which currently consist of 5 researchers, and offers an interactive and stimulating research environment. We collaborate with several other lab groups within the School of Biological sciences, and consequently, there are excellent opportunities to participate in research that merges theory development with experimental work.

Further information can be found at: timconnallon.com <http://monash.edu/science/about/schools/biological-sciences/> To apply, please send a CV, academic transcript, contact details for two academic references, and a brief outline of research interests to

tim.connallon@monash.edu . Informal inquiries are also welcome at the same addresses. Review of applications will begin immediately, and short-listed candidates will be contacted to set up phone/Skype interviews.

tim.connallon@monash.edu

Montpellier RiceDomestication

*Call for applications for a *fully funded PhD position opened at Cirad, Montpellier, Southern France, in the research unit AGAP (<http://umr-agap.cirad.fr/>).

The topic is *Harvesting novel rice gene variants selected by Farmers along rice domestication and diversification *and the work will be supervised by J-C Glaszmann*.*

We seek a highly motivated student with a Master degree, trained in genetics with a strong interest for evolutionary biology and the analysis of data (NGS in particular). A good experience with a range of bioinformatics tools and the statistical software R are required.

The research project will imply international exposure including stays with partners abroad, e.g. at the International Rice Research Institute in the Philippines. The knowledge and practice of English will be important. French is not mandatory but could be a plus.

We invite the interested candidates to send us a CV, a cover letter and the e-mail address of one referee, to glaszmann@cirad.fr, ddse-agap@cirad.fr, and diragap@cirad.fr by October 1, 2015.

Thesis context

Crops have undergone and are still undergoing domestication. Over the past 12,000 years mankind has sampled, selected, cultivated, migrated and colonised new environments, inducing all manner of bottlenecks, drifts and selection. On the whole, plant domestication redirected plant development and adaptation to meet the needs of human populations. Moreover domestication induced spectacular phenotypic variation. As an example, current cultivated varieties of Asian rice (*Oryza sativa* L.) are grown under extreme water regimes from strictly dryland fields to deep water sites with up to 6-7 meters water (in the Bengal delta), as well as under temperature regimes from equatorial plains to fields at 3000 m elevation along the Himalayas or northernmost regions beyond 50N latitude in China, or in Europe. Despite apparent quantitative reduction of genetic diversity during domestication, new traits and capacities appear among

domesticates and still continue to appear with modern breeding. Inbreeding is obviously a major way for phenotypic variation to be realized, as are occasional spontaneous hybridizations between diverged forms and, later, directed hybridizations by the breeders. Yet fully novel variation may also appear. The waxy gene in rice is one of the best documented cases (review by Vaughan et al, 2008). Other examples have arrived since then, particularly in barley, for virus resistance (Hofinger et al 2011 and Yang et al. 2014), for photoperiod sensitivity (Faure et al. 2012; Pankin et al. 2014) and for boron tolerance (Pallota et al. 2014), and on legume crops (Weller et al. 2012) for earliness. In farm animals such as pigs, coat color variation results of intentional selection for alleles that appeared after the advent of domestication (Fang et al. 2009). Globally one may argue that most of de novo variation is actually adaptive, because it has been fixed or has become frequent in a very short time in evolutionary terms. And for crops, one may also argue that the selection pressure applied by many farmers on numerous plants every year is likely to be very efficient in detecting and stabilizing those new useful variants that appeared through mutation. We want to harvest those genes that are part in this process.

The research proposed will use rice as a model for mining germplasm collections for adaptive polymorphisms and alleles that have emerged during plant domestication and adaptation to diverse environments. Our vision is that we can make a great use of a unique model plant and a unique set of new data in order to explore an original approach. * A unique model plant: *Oryza sativa*, the rice species of Asian origin, is an essential crop for food security. It has a wealth of diversity, both phenotypic and genotypic, with strongly differentiated varietal groups such as the so-called Indica and Japonica groups, whose mode and place of domestication is a source of intense debate among scientists. Rice is being studied under multiple facets in Montpellier and there is a wealth of expertise in our community. * A unique set of new data: the '3k RS'. A set of 3,000 accessions have been subjected to deep Re-Sequencing and the data have been publicized (3K RGP, 2014) together with a call for coordinated action in terms of data analysis (Li et al. 2014). * An original approach: focussing on de novo variation. DNA sequence variations keep memory of time and this is easily accessible when working within small genetic distance windows. Alleles phylogenies can be drawn which highlight recent variation emerging under positive selection. Phylogeographic analyses of landrace diversity enables pointing out adaptive de novo diversity. Part of it can be tentatively identified as the most recent alleles that are present at the fringe of

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Muenster RapidEvolution

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

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

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

Working language of the lab is English. PhD students can become member of the Muenster Graduate School of Evolution (MGSE, <http://www.uni-muenster.de/Evolution/mgse/>). For information on the University of Muenster, see <https://www.uni-muenster.de/en/city>; for information on the city of Muenster see <http://www.muenster.de/en/>. The position is available for 3-years. The salary will be 65% of a E13 TV-L position of the German tariff for public employees. The University of Muenster is an equal opportunity employer and is committed to increasing

the proportion of women academics. We also welcome applications from candidates with severe disabilities. A German version of the job description can be found at https://www.uni-muenster.de/Rektorat/-Stellen/ausschreibungen/st_20152509_sk15.html . Interested candidates should send applications via email (please use the keyword 'rapid evolution' as the subject) as a single pdf that is named with the family name of the applicant. The pdf should contain a CV, a list of publications (if available), a short statement of research interests and the addresses of two potential referees. Please send your application to:

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

Closing date is October 15th, 2015.

Prof. Dr. Joachim Kurtz

University of Muenster Institute for Evolution and Biodiversity Animal Evolutionary Ecology Group Huefferstr. 1, 48149 Muenster, Germany

Phone (secretary): + 49 251 83 21638 / 21027 Phone (direct): + 49 251 83 24661 Fax: + 49 251 83 24668 Room: 109 joachim.kurtz@uni-muenster.de <http://ieb.uni-muenster.de/animalevolecol/people/kurtz> DFG SPP Host-Parasite Coevolution Münster Graduate School of Evolution (MGSE)

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

NTNU Norway EcoEvolutionaryGenomics

PhD position in Eco-Evolutionary Genomics

A PhD position is available in the research group of Associate Professor Henrik Jensen, Centre for Biodiversity Dynamics, Norwegian University of Science and Technology.

The goal of the PhD project is to improve our understanding of ecological and evolutionary dynamics in time and space in natural populations. This will be achieved by 1) identifying the genetic architecture of various phenotypic traits associated with individual fitness (survival and reproduction), and by 2) examine how the traits' genetic architecture affect the ecological and evolutionary dynamics in natural populations. We are seeking a person with a genuine interest in these questions.

The project will use state-of-the-art genomic and eco-evolutionary data from a unique house sparrow (*Passer domesticus*) model system in Norway. Multi-generational data from natural and experimental (i.e. artificial selection and <common garden>) populations in the wild is available. Phenotypic data include individual measurements of morphology, physiology (metabolic rate), behavior, and life-history traits such as breeding phenology, reproductive success and lifespan. The genomic data consists of 200K SNP genotypes for hundreds of individuals in both natural and experimental populations.

Further information can be found at: <http://www.jobbnorge.no/en/available-jobs/job/117107/phd-position-in-eco-evolutionary-genomics?p=0&reset=1>

The application deadline is September 27th. Note that applications must be submitted electronically following a link on the jobbnorge.no web-page.

henrik.jensen@ntnu.no

OhioStateU
BatConservationGenomics

PhD position in Bat Conservation Genomics Labs of H. Lisle Gibbs and Bryan Carstens Department of Evolution, Ecology and Organismal Biology, Ohio Biodiversity Conservation Partnership Ohio State University

We seek to recruit a jointly-supervised Ph.D. student, to begin in Fall 2016, to work on the conservation genomics of tree bats. The research would focus on using genomic techniques in combination with other biomarkers (stable isotopes and trace elements) to assess the impact of wind installations on bat populations with the specific project to be decided jointly with the student. The student would join two active labs who actively apply genomic techniques and statistical analyses to range of questions in evolutionary biology, ecology and conservation. The position would be funded through a Graduate Research Assistantship through the Ohio Biodiversity Conservation Partnership and Ohio State University. The Department of EEOB provides year-round financial support (~ \$28K/yr plus benefits) for PhD students for the duration of their program.

Interested students should contact Dr. H. Lisle Gibbs, Department of EEOB, Ohio State University at gibbs.128@osu.edu or Dr. Bryan Carstens at carstens.12@osu.edu with a statement of interest, a CV, transcripts and GRE scores if available. We will start reviewing applications starting 15 October. Please see the lab (www.biosci.ohio-state.edu/~eeob/gibbs/) or http://carstenslab.org.ohio-state.edu/-OSU/Carstens_Lab.html) and department (<http://eeob.osu.edu/>) websites for more information.

Dr. H. Lisle Gibbs Professor, Department of Evolution, Ecology, and Organismal Biology Director, Ohio Biodiversity Conservation Partnership 300 Aronoff Laboratory Ohio State University 318 W. 12th Avenue Columbus, Ohio 43210-1242 USA T: 614 688 3861 F: 614 292 2030 E: gibbs.128@osu.edu

“Gibbs, H” <gibbs.128@osu.edu>

OhioStateU
SnakeConservationGenetics

PhD position in Snake Molecular Ecology/Conservation Genetics Lab of H. Lisle Gibbs Department of Evolution, Ecology and Organismal Biology, Ohio Biodiversity Conservation Partnership Ohio State University

I am interested in recruiting a Ph.D. student, to begin in Fall 2016, to work on the molecular ecology/conservation genetics of Eastern Massasauga Rattlesnakes (*Sistrurus catenatus*). The research would focus on assessing levels of genetic variation and connectivity among rattlesnake populations in Ohio using genomic techniques with the specific focus to be decided jointly with the student. The project would involve a combination of lab and fieldwork. The student would join an active lab which applies genomic techniques and informatics analyses to a wide range of questions in evolutionary biology, ecology and conservation in snakes, birds, and salamanders. The position would be funded through a Graduate Research Assistantship through the Ohio Biodiversity Conservation Partnership and support from Ohio State University. The Department of EEOB provides year-round financial support (~ \$28K/yr plus benefits) for PhD students for the duration of their program.

Interested students should contact Dr. H. Lisle Gibbs, Department of EEOB, Ohio State University at gibbs.128@osu.edu with a statement of interest, a CV, transcripts and GRE scores if available. I will start reviewing applications on 15 October. Please see the lab (www.biosci.ohio-state.edu/~eeob/gibbs/) and department (<http://eeob.osu.edu/>) websites for more information.

Dr. H. Lisle Gibbs Professor, Department of Evolution, Ecology, and Organismal Biology Director, Ohio Biodiversity Conservation Partnership 300 Aronoff Laboratory Ohio State University 318 W. 12th Avenue Columbus, Ohio 43210-1242 USA T: 614 688 3861 F: 614 292 2030 E: gibbs.128@osu.edu

“Gibbs, H” <gibbs.128@osu.edu>

OtagoUNewZealand PopulationGeneticTheory

Two PhD Projects Available

University of Otago, Dunedin, New Zealand

1. Evolution of Polymorphism. I am seeking a PhD student to construct and analyze population-genetic models of natural selection and mutation that can explain the levels of genetic variation found in natural populations.
2. Population Epigenetics. I am seeking a PhD student to construct and analyze models that incorporate epigenetics into standard population-genetic models, with a view to understanding patterns of epigenetic variation in natural populations.

Candidates should be comfortable working with equations and have some computing experience. The projects will involve a combination of analytical modelling and computer simulation. An excellent command of both written and spoken English is essential.

My laboratory will provide funding for research costs, but the student will need to be admitted to the University of Otago's PhD programme (see <http://www.otago.ac.nz/study/phd/handbook/-index.html>) and be awarded a University of Otago Doctoral Scholarship (see <http://www.otago.ac.nz/study/-scholarships/database/otago014687.html>), which will cover normal living expenses and tuition fees for three years.

Interested applicants should contact me, including (1) a brief cover letter outlining their research interests, (2) a comprehensive CV, (3) an academic transcript and (4) contact details of two referees.

Professor Hamish G. Spencer E:
hamish.spencer@otago.ac.nz W: <http://www.otago.ac.nz/zoology/staff/-spencer.html>
"hamish.spencer@otago.ac.nz"
<hamish.spencer@otago.ac.nz>

PennsylvaniaStateU BeeEvoDevoMimicry

A PhD Graduate Student Research Assistantship is currently available in the Hines Lab at Pennsylvania State University to study the evolutionary genetics and developmental mechanisms underlying mimetic color variation in bumble bees. This project is highly integrative, including potential training in the areas of genetics, genomics, developmental biology, pigment chemistry, systematics, and entomology, and will likely involve bee rearing and field research. Additional research directions may be possible in other topics of interest in the lab, including study of mimicry, insect pigmentation, bee systematics, bee conservation, and bee behavior. Enrollment for this position can take place either through the Entomology (<http://ento.psu.edu/>), MCIBS (http://www.huck.psu.edu/content/graduate-programs/molecular_cellular_integrative_biosciences/-about), or Biology (<http://bio.psu.edu/>) graduate programs. Desired start dates range from Spring 2016 through Fall 2016.

For more information on current research directions in the lab visit www.hineslab.org. Interested students should email Dr. Heather Hines (hmh19@psu.edu) with a statement of interest and a curriculum vitae that includes GPA and GRE scores.

Heather Hines <hmh19@psu.edu>

SaintLouisU ConservationGenomics

Philip and Sima K. Needleman Endowed Doctoral Fellowship in Plant Conservation Genetics

The Missouri Botanical Garden and Saint Louis University are excited to invite applications for a new, five-year endowed doctoral fellowship in plant conservation genetics/genomics starting in August 2016. The Philip and Sima K. Needleman Doctoral Fellowship is made possible by a generous gift to the Missouri Botanical Garden from Philip and Sima K. Needleman to support training of a doctoral student working the field of plant conservation genetics/genomics. The prestigious Needleman

Fellowship will provide stipend and health insurance for one doctoral student enrolled in the Department of Biology at Saint Louis University for a five-year period. The position includes a full tuition scholarship from Saint Louis University. The Fellow will be co-advised by Christine Edwards, Conservation Geneticist at the Missouri Botanical Garden, and Allison Miller, Associate Professor at Saint Louis University and Research Associate at the Missouri Botanical Garden. The Needleman Fellow will develop a dissertation project focused on plant diversity, evolution, and conservation and will work closely with scientists at the Missouri Botanical Garden and at Saint Louis University. In addition, the student will be encouraged to build on existing research ties between Saint Louis University, the Missouri Botanical Garden, the Danforth Plant Science Center, and other institutions, with the goal of gaining a breadth of training in cutting-edge approaches in the plant sciences.

Suitable candidates will be passionate about plant evolutionary biology, diversity, and conservation. They must have completed undergraduate and possibly Master's degrees in agronomy, biology, botany, conservation, ecology and evolutionary biology, ecology, forestry, or related fields prior to the start date. Research experience, including both field and laboratory work, is strongly desired. To be considered for the Needleman Fellowship candidates must meet the requirements of the Saint Louis University graduate degree program in Biology (see <https://sites.google.com/a/slu.edu/biology-graduate-program/home/prospective-students>) and be accepted into the program.

For more information about this position, and to discuss specific project ideas, please contact Christine Edwards (Christine.Edwards@mobot.org) and Allison Miller (amille75@slu.edu). If you are planning to apply, we strongly encourage contact with Drs. Edwards and Miller prior to application.

Start date: August 1, 2016

To apply: Applications for the Saint Louis University Biology graduate program must be received by January 1, 2016. To apply for admission, candidates should follow the instructions on the Saint Louis University Biology graduate degree program website (<https://sites.google.com/a/slu.edu/biology-graduate-program/home/prospective-students>) and submit a personal goal statement, current resume or CV, names and email addresses for three referees who have agreed to submit letters of recommendation, official transcripts, GRE (General) and TOEFL exams (if first language is not English), and application fee. To be considered for the Needleman Endowed Doctoral Fellowship in plant conservation genetics, applicants must

include a detailed section in their goals statement explaining why the applicant is a strong candidate for the fellowship. All application materials must be submitted to Saint Louis University's centralized admissions office for Graduate Education <http://www.slu.edu/x32020.xml>. Please direct any questions about the Philip and Sima K. Needleman Endowed Doctoral Fellowship in Plant Conservation Genetics to Drs. Christine Edwards (Christine.Edwards@mobot.org) and Allison Miller (amille75@slu.edu). –

Christine E. Edwards, PhD Conservation Geneticist
Center for Conservation and Sustainable Development
Missouri Botanical Garden PO Box 299 St. Louis MO 63166

Phone: 314-577-9473 x6244 Fax: 314-577-0847

Christy Edwards <Christine.Edwards@mobot.org>

SanDiegoStateU EvolutionaryGenomics

Interested in evolutionary genomics AND multi-species interactions?

The Renner Lab is seeking graduate students (Master's and/or Joint-Doctoral PhD Positions) to join the Evolutionary Biology Program at San Diego State University in Fall 2016.

The Renner Lab examines evolutionary patterns and processes that drive functional diversification. We are particularly interested in how multi-species interactions shape biodiversity at the microevolutionary scale and influence form and function. Our lab takes an integrative approach in studying adaptation by combining next-generation sequencing, bioinformatics, and phylogenetics with applied molecular biology.

Research topics we are currently investigating: - Gene co-option and the molecular diversity of enzymes involved in plant carnivory/defense response. - Plant form and function, including morphological adaptations for insect capture. - Evolutionary mechanisms behind insect defense, host preference and detection.

More information about current projects can be found on our lab webpage:

<http://www.rennerlab.org> Starting from the premise that evolution underlies all of biology, the primary mission of the Evolutionary Biology Program Area is to discover and share knowledge about the processes and

patterns of biological evolution. We aim to advance the field of evolutionary biology through excellence in teaching, research, and mentoring, to actively demonstrate the relevance of evolutionary theory throughout the sciences, and to increase public awareness of evolution, especially as it relates to the origin and conservation of biodiversity. Read more about the Evolutionary Biology Program (<http://www.bio.sdsu.edu/eb/index.html>) and the Biology Department (<http://www.bio.sdsu.edu>).

Application due dates: February 1st is the preferred deadline for the Evolutionary Biology Master's Program (<http://www.sci.sdsu.edu/eb/ms.html>), however to ensure that your application is on time, you should apply to CSU mentor by 24 January (<http://www.bio.sdsu.edu/MastersApplProced.html>). San Diego State University collaborates with the University of California Riverside to provide a Joint Doctoral Evolutionary Biology PhD Program. Applications for the PhD program are on-line October 1st 2015; priority will be given to those applying by December 14, 2015 (<http://www.bio.sdsu.edu/eb/jdapplications.html>).

Support: Graduate teaching assistantships (TAs) are available on a competitive basis (based on GPA and GRE scores) for up to 20 hours work per week for the academic year (9 mos.). TAs are eligible for a full benefits package including medical, dental, and vision insurance for the calendar year. Graduate assistantships (GAs) are also available for research and non-teaching duties. Application forms for TA and GA positions can be found at (<http://www.bio.sdsu.edu/MastersApplProced.html>). Completed applications should be submitted to the Department of Biology by February 1 along with all other application materials in order to be considered for a TA appointment.

Interested students should please contact Dr. Tanya Renner by email (trenner@mail.sdsu.edu) with a letter of interest, curriculum vitae, and a summary of previous courses/grades.

"trenner@mail.sdsu.edu" <trenner@mail.sdsu.edu>

Sherbrooke BighornSheepFitness

Ph.D. or M.Sc.: long-term effects of early development in bighorn sheep

Parental investment theory assumes that parental care has long-term fitness consequences, but few of its predictions have been tested with empirical data in long-lived

species. In sexually dimorphic mammals, resource abundance during early development, including maternal care, is expected to have a stronger effect on the fitness of males than of females, but these effects should weaken with increasing age. Does maternal care only affect early development and survival, or does its signal persist also in later growth, secondary sexual characters, and reproductive success? Selective mortality likely removes some of the early variation in development, but how much and how? Do these effects interact with weather and population density? Can the sources of variation (environment, maternal care, genetics) be quantified, and do they interact? The student will have access to 45 years of individual-based data and a deep pedigree for a population of bighorn sheep, with more than 10,000 captures of over 1000 individuals and lifetime reproductive success data for 25 cohorts. The program will involve 2-3 summers of data collection in Alberta. Candidates should have a strong interest in evolutionary ecology, knowledge of the behavioral ecology literature, statistical skills, strong motivation to do original research, and an ability to work in a remote field setting with limited personal space. The program can start in January or May 2016. The Université de Sherbrooke is a francophone institution, therefore either some knowledge of French or an interest in learning it are essential. An internal scholarship of C\$ 17,500 (M.Sc.) or C\$ 19,000 (Ph.D.) per year is available. The program will be co-supervised by Fanie Pelletier. Although the research is fully funded, external scholarship holders will be preferred.

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

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

TexasAMU FishCancerEvolution

Prof. Dr. Manfred Schartl <<http://www.uni-wuerzburg.de/?id=3D42039>> and Dr. Gil Rosenthal <swordtail.tamu.edu> are soliciting an exceptional doctoral student to develop an original research project on the molecular basis and evolutionary dynamics of genes associated with melanoma in swordtail fish (*Xiphophorus*). The position will start in August 2016 in the doctoral program in Ecology & Evolutionary Biology

at Texas A&M University (TAMU), with funding for extended stays in Prof. Schartl's lab at Universität Würzburg, and, optionally, at the CICHAZ field station < www.cichaz.org > in central Mexico. The student will be supported by research and teaching fellowships. We are seeking an enthusiastic scientist with an outstanding academic record and experience at the molecular bench. Please contact Prof. Schartl (phch1@biozentrum.uni-wuerzburg.de) or Dr. Rosenthal (grosenthal@bio.tamu.edu) for details.

"grosenthal@bio.tamu.edu" <grosenthal@bio.tamu.edu>

TrinityCollege Dublin EvolutionRootEndophytes

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

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

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

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

Research Affiliation and Supervision This project will be based at Trinity College Dublin and the researcher will be a registered Doctoral candidate at Trinity College Dublin. The project will be carried out under the prin-

cipal supervision of Professor Trevor Hodkinson, with input from Mr Donal Fitzgerald (Goldcrop), Professor James Brown and Dr Hans Jorgensen (UCPH), Dr Birgit Jensen, Professor David Collinge and Mr Brian Murphy (Trinity College Dublin).

Secondment Details This project will involve a research secondment of 2 months at University College Dublin, to examine endophyte isolation, a further 2 months at Kobenhavns Universitet, to work with ESR6 to determine endophyte mode of action, and finally 3 months with Goldcrop to investigate commercial application of endophytes as a seed treatment.

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

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

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

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

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

<https://www.tcd.ie/Botany/staff/people.tcd.ie/hodkinst> <http://people.tcd.ie/hodkinst> <https://scholar.google.com/citations?user=3DOphAvBgAAAAJ&hl=3Den> <https://twitter.com/TrevorHodkinson> Trinity College Dublin, the University of Dublin is ranked 1st in Ireland and in the top 100 world universities by the QS World University Rankings.

HODKINST@tcd.ie

UAlaska Fairbanks EvolutionaryBiol

Interested in Coevolution? PHD and Masters Positions Available

SEEKING GRADUATE STUDENTS to join the newly formed lab of Dr. Devin Drown in the Institute of Arctic Biology and the Department of Biology and Wildlife at the University of Alaska Fairbanks, USA.

Current research topics address: - Genomic and sexual conflict and cooperation - Coevolution in spatially struc-

tured populations - Dynamics of pathogens in response to global change - Adaptation to abiotic vs. genetic environments - Phenotypic plasticity in invasive species

My lab's research focuses on understanding coevolutionary interactions with the overall goal to develop a mechanistic understanding by which abiotic and biotic forces drive the direction and rate of evolutionary change. We use a combination of mathematical modeling and molecular analysis in both field and laboratory settings. I am interested in building current study systems as well as developing new systems. More information on current projects can be found online:

<http://www.devindrown.com/> The University of Alaska Fairbanks is renowned for its strengths in wildlife, ecology, and evolutionary biology research. Fairbanks itself is a great place to live. Find more info online about the University (www.uaf.edu), the Institute of Arctic Biology (www.iab.uaf.edu), and the Department of Biology and Wildlife (www.bw.uaf.edu).

Financial support for students accepted into the department and this research group will be through a combination of Research Assistantships (RAs) and Teaching Assistantships (TAs).

Interested students should contact Devin by email (dmdrown@alaska.edu) with: letter of interest, curriculum vitae including summaries of grades, and the names of at least two references.

"dmdrown@alaska.edu" <dmdrown@alaska.edu>

UAlberta ConservationGenetics

Graduate Study Opportunity in Molecular Ecology at the University of Alberta.

I am seeking highly motivated students interested in pursuing graduate study at either the MSc or Phd level in molecular ecology, conservation genetics or ecological genomics to join my research group in the Department of Biological Sciences at the University of Alberta (<http://www.biology.ualberta.ca>) to start in Sept 2016. The Department of Biological Sciences offers a vibrant research and graduate training environment and outstanding research infrastructure including next-generation sequencing platforms <http://www.biology.ualberta.ca/facilities/>. All students admitted to our graduate program have secure financial support for the first 2 years of a M.Sc. program and the first 5 years of a Ph.D. program, at the minimum rate of approximately \$23,739

(M.Sc.) and \$24,393 (Ph.D.) CDN per year, subject to annual review of academic and teaching performance.

Projects

Research projects in my group involve the development and application of molecular markers to study a range of topics in the ecology and evolution of wildlife species (<https://scholar.google.ca/citations?user=-3D3L1oVhgAAAAJ&hl=3Den>). Projects often involve close collaboration with field biologists and ecologists. Some potential topics include the genetic architecture of fitness-related traits in mountain sheep and goats, hybridization and CWD spread in wild deer, and population genomics of the mountain pine beetle system. I am also open to ideas and encourage potential applicants to contact me directly to discuss their interests and suitability.

Application requirements

I am looking for students who have a strong demonstrated background (BSc or equivalent with minimum GPA 3.3 on a 4-point scale) in ecology and evolution, molecular biology or bioinformatics. Experience in the field research and/or with molecular techniques is preferred, and both numeracy and proficiency in English are required.

See details here <http://www.biology.ualberta.ca/programs/graduate/apply-now/>.

Contact details

Dr. David W. Coltman (dcoltman@ualberta.ca) Professor Department of Biological Sciences University of Alberta Edmonton, Alberta Canada T6G 2E9

David Coltman <dcoltman@ualberta.ca>

UBasel CichlidEcologyEvolution

PhD position in ecology and evolutionary biology

A three-year PhD position in evolutionary biology and ecology is available in the group of Prof. Walter Salzburger at the Zoological Institute of the University of Basel, Switzerland, to study the exceptionally diverse adaptive radiation of cichlid fishes in Lake Tanganyika, East Africa, in the framework of an ongoing project funded by the European Research Council (ERC).

We are looking for a highly motivated and socially skilled student with a strong interest in organismal biology in general and the ecology of fishes in particular. A masters

degree in biology is required, experience in ichthyology, fish ecology, bio-informatics and field-work (diving) are a plus. The position will be based at the Zoological Institute in Basel, but will include field-work at Lake Tanganyika.

The research of the Salzburger Lab (www.salzburgerlab.org) focuses on the question how variation in the DNA translates into organismal diversity and on the identification of the patterns and mechanisms that underlie adaptation, evolutionary innovation, and animal diversification, using the cichlid fishes of Lake Tanganyika as main model system. The working language in the lab is English. Ongoing research involves the integrative study of adaptive radiations (e.g. Muschick et al. 2012, *Current Biology*; Theis et al. 2014, *Molecular Ecology*), the dissection of the molecular basis of evolutionary innovations (e.g. Santos et al. 2014, *Nature Communications*), and the evolution of gene families at the genomic level (Cortesi et al. 2015, *PNAS*). For relevant review papers, see: Santos and Salzburger (2012) *Science*; Salzburger et al. (2014) *Annual Review of Ecology, Evolution, and Systematics*; Berner & Salzburger (2015) *Trends in Genetics*.

The University of Basel (www.unibas.ch) is Switzerland's oldest university with a strong focus on life sciences and culture. Situated at the border to France and Germany, Basel is a very international city and a center of life science research in Europe.

To apply, please send a single .pdf file including a CV, a motivation letter and the names of two referees to: walter.salzburger@unibas.ch. Applications will be evaluated until October 15th, 2015. Please note that we have advertised a second PhD position in comparative transcriptomics of Tanganyikan cichlid fishes.

For further information, see: www.salzburgerlab.org www.facebook.com/waltersalzburgerlab With best wishes,

Walter

Prof. Dr. Walter Salzburger

Zoologisches Institut, Universität Basel Vesalgasse 1,
4051 Basel, Switzerland

eMail: walter.salzburger@unibas.ch

walter.salzburger@unibas.ch

UBasel CichlidGenomics

PhD position in evolutionary biology

A three-year PhD position in evolutionary biology is available in the group of Prof. Walter Salzburger at the Zoological Institute of the University of Basel, Switzerland, to study the exceptionally diverse adaptive radiation of cichlid fishes in Lake Tanganyika, East Africa, in the framework of an ongoing project funded by the European Research Council (ERC).

We are looking for a highly motivated and socially skilled student with a strong interest in organismal biology and comparative genomics/transcriptomics on the basis of high-throughput next generation sequencing data. A masters degree in biology is required, experience in molecular biology, bio-informatics, genomics and field-work are a plus. The position will be based at the Zoological Institute in Basel, but will include field-work at Lake Tanganyika and a stay at the Centre for Ecological and Evolutionary Synthesis (CEES), University of Oslo.

The research of the Salzburger Lab (www.salzburgerlab.org) focuses on the question how variation in the DNA translates into organismal diversity and on the identification of the patterns and mechanisms that underlie adaptation, evolutionary innovation, and animal diversification, using the cichlid fishes of Lake Tanganyika as main model system. The working language in the lab is English. Ongoing research involves the integrative study of adaptive radiations (e.g. Muschick et al. 2012, *Current Biology*; Theis et al. 2014, *Molecular Ecology*), the dissection of the molecular basis of evolutionary innovations (e.g. Santos et al. 2014, *Nature Communications*), and the evolution of gene families at the genomic level (Cortesi et al. 2015, *PNAS*). For relevant review papers, see: Santos and Salzburger (2012) *Science*; Salzburger et al. (2014) *Annual Review of Ecology, Evolution, and Systematics*; Berner & Salzburger (2015) *Trends in Genetics*.

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To apply, please send a single .pdf file including a CV, a motivation letter and the names of two referees to: walter.salzburger@unibas.ch. Applications will be evaluated until October 15th, 2015. Please note that we have advertised a second PhD position on the ecology of cichlids in Lake Tanganyika.

For further information, see: www.salzburgerlab.org www.facebook.com/waltersalzburgerlab With best wishes,

Walter

Prof. Dr. Walter Salzburger

Zoologisches Institut, Universität Basel Vesalgasse 1, 4051 Basel, Switzerland

eMail: walter.salzburger@unibas.ch

walter.salzburger@unibas.ch

UCalgary AdaptationGenomics

GRADUATE STUDENT positions at the UNIVERSITY of CALGARY

Local adaptation and the architecture of complex traits: Theory and bioinformatics Sam Yeaman AIHS Chair in Bioinformatics and Computational Biology

I'd like to take this opportunity to invite prospective graduate students (M.Sc. or Ph.D.) to apply for positions in my lab in the Department of Biological Sciences at the University of Calgary. I am looking for candidates interested in using theory, computer simulations, and bioinformatic approaches to study the evolution of genomic signatures of adaptation, and how the genome itself may evolve in response to the problem of local adaptation. I am also broadly interested in how evolutionary analysis of genome sequence data can be applied to problems in human health. The most important prerequisites for this position are curiosity and intelligence – I am happy to work with students from mathematical, computer sciences, or biology backgrounds, as your graduate studies should be a time to learn new skills.

I have a range of potential projects that you could work on (see below), or I would be happy to support your own ideas, provided they broadly align with the interests of the lab.

Graduate student positions include full funding (\$21K/year) through a combination of lab-supported stipends and TA-ships offered through the University of

Calgary. Of course, I encourage students to find their own funding (e.g., NSERC, AIHS, etc.), and will offer a small research budget or additional stipend to students that come with funding of their own. I will also provide funding to attend one academic conference per year.

QUALITY OF LIFE: The University of Calgary is a vibrant and rapidly growing community, with over 22,000 undergraduate and 5,000 postgraduate students. Calgary has some beautiful mountains nearby – the foothills of the Rockies are only a 45 minute drive away. Calgary has been rated 5th worldwide in the EIU's 2015 Liveability Ranking. My lab emphasizes a healthy approach to work-life balance, as some of the best ideas seem to come when you least expect them and life is too short to focus on one thing alone.

TO APPLY: Please send a CV and a short description of your interests to samuel.yeaman@ucalgary.ca, along with the names and emails of three people I could contact for reference letters. The deadline for a January start date is September 15th, but later start dates are fine too.

POTENTIAL RESEARCH PROJECTS:

1) Bioinformatic detection of signatures of local adaptation

There are many ways to study the genome and we are only scratching the surface with current statistical tools to study local adaptation. Furthermore, many of these approaches seem to generate a large proportion of false positives and negatives. There are many other possible approaches, using haplotype information, linkage disequilibrium, and comparative genomic data that could be leveraged to improve our ability to study adaptation. Development and testing of new tools on existing datasets is critical to moving forward with our study of population and comparative genomics, and with applications in health and environment.

2) Theoretical exploration of the effect of demography and environment on genomic signatures of local adaptation

Theory has shown that migration-selection balance can shape the architecture of local adaptation, but testing this theory using genomic data remains a major challenge. The aim of this project is to extend existing theory to make explicit predictions about the effect of realistic demographies and environments on genomic signatures of local adaptation. This work will use individual based simulations to explore these ideas and the development of new statistical tools to describe the patterns we find.

3) Factors affecting the rate of turnover in transient genetic architectures

I recently published a paper that showed that with highly polygenic traits, there can be rapid turnover in the alleles that contribute to local adaptation, which can be very difficult to detect in an empirical context (Am-Nat 2015: Local adaptation by alleles of small effect). It is unclear how the balance between migration, selection, mutation, and drift shapes the rate of turnover in these transient architectures, and this is an area worthy of much more study.

4) Evolution of genomic rearrangements under spatial + temporal heterogeneity

Previous theory has shown that clusters of locally adaptive genes can evolve through genomic rearrangements when environments are spatially heterogeneous (Yeaman 2013; PNAS). The addition of temporal heterogeneity to these models results in very different architectures: sometimes architectures evolve where some loci are highly clustered (as a response to spatial heterogeneity) and others are highly dispersed (presumably in response to temporal heterogeneity). More work is needed to understand how more complex environments will affect our predictions

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UCalifornia SanDiego EvolutionarySystemsBiology

Kryazhimskiy lab at UC San Diego is seeking PhD students to join in the fall of 2016. The lab is interested in uncovering general principles of how mutations affect cell physiology at multiple levels of biological organization (gene expression, metabolic fluxes, etc.) and understanding how these effects combine to determine organism's fitness across environments. Our approaches include experiments in model microorganisms *S. cerevisiae* and *E.coli* and mathematical modeling. For more details about lab's research see website:

<http://sklab.science> Individuals with a strong background in natural sciences or math who are interested in experimental and/or theoretical work are encouraged to apply. It is best to apply through the

Ecology, Behavior and Evolution section (<http://biology.ucsd.edu/research/academic-sections/ebe/>), but applications through other departments are also possible. Application deadline is December 2, 2015. Contact Sergey Kryazhimskiy (skryazhi@ucsd.edu) with your CV and a brief description of your interests before applying.

Sergey Kryazhimskiy Assistant Professor Section of Ecology, Behavior and Evolution Division of Biological Sciences University of California San Diego

"skryazhi@ucsd.edu" <skryazhi@ucsd.edu>

UColoradoBoulder FloralEvolution

Fascinated by flowers? The Smith Lab at the University of Colorado Boulder is seeking PhD students to join us in studying the evolution of floral diversity. Our group uses approaches from evolutionary genetics, statistical phylogenetics, genomics, biochemistry, and pollination ecology to understand how and why flower traits evolve. We are interested in prospective members who want to pursue integrative evolutionary biology research focused on flowering plants.

Current research projects in the lab include:

- Mechanisms of convergent flower color evolution above and below the species level
- Systematics and trait evolution in the tomato family, Solanaceae
- Molecular evolution of the anthocyanin pigment pathway
- Effects of floral trait evolution on lineage diversification

See the website for more details about our lab and our research: www.colorado.edu/smithlab Financial support for students accepted into the EBIO program and this research group are provided through a combination of Teaching Assistantships (TAs). Research Assistantships (RAs) and fellowships.

Interested students should contact Stacey by email (Stacey.D.Smith@colorado.edu) with a letter of interest and a curriculum vitae including research experience, summary of relevant course and grades, GRE scores, and the names of at least two references.

dewitt832@gmail.com

UConnecticut FlowerEvolution

Ph.D. positions in Genetics, Development, and Evolution of Flower Diversification at the University of Connecticut Adviser: Yao-Wu Yuan

The monkeyflower lab at the University of Connecticut (<http://monkeyflower.uconn.edu/>) seeks creative and motivated PhD students to join us in the Fall of 2016. Our group is interested in how and why organisms evolve so many beautiful forms in nature. We study flower diversification as a representation of the general problem of phenotypic evolution. We have developed many genetic and genomic resources and functional tools in a classical ecological and evolutionary model system, monkeyflowers (*Mimulus*), so that we can integrate hard-core genetics, developmental biology, and evolutionary ecology to actually address this problem.

Ongoing projects in the lab include: (1) Regulation of carotenoid pigmentation in flowers; (2) Molecular mechanisms of pattern formation: How to spot a flower? (3) Genetic bases of adaptive peak shift: Parallel switches between purple/pink and yellow flowers that are pollinated by bees; (4) Genetics of pollinator-mediated speciation; (5) Developmental genetics of corolla tube formation and elaboration. New students can either join the ongoing projects or develop their own projects related to our research interests, or do a combination of both (i.e. join an ongoing project in the first year or so while developing their own ideas). Backgrounds in one or more of the following areas are desired: genetics, genomics, developmental biology, evolution, plant-pollinator interactions, plant systematics, computer modeling of biological processes.

Financial support for Ph.D. students in our EEB department is available from research assistantships, teaching assistantships, and university fellowships. Interested candidates should send an email describing their motivation and research interests along with a CV to Yaowu Yuan (yaowu.yuan@uconn.edu).

About the University of Connecticut The University of Connecticut (UConn) has been one of the nation's leading public institutions since its founding in 1881. Located in Storrs, UConn's main campus is situated in the picturesque rolling forests and fields quintessential of New England, yet is only 30 minutes from Hartford, and has close connections to Providence, Boston and New York City. The Department of Ecology and Evo-

lutionary Biology consists of over 30 faculty and 60 graduate students with research spanning nearly all major groups of organisms. The Department maintains close ties with the Departments of Molecular and Cell Biology, Physiology and Neurobiology, Plant Science and Landscape Architecture, Animal Science, Marine Sciences, and the Institute for Systems Genomics, which together comprise one of the largest groups of biologists in the Northeast.

Yaowu Yuan Assistant Professor Dept. of Ecology & Evolutionary Biology University of Connecticut Storrs, CT 06269-3043, U.S.A. Tel: 860-486-3469 <http://monkeyflower.uconn.edu/> Yaowu Yuan <yuan.colreeze@gmail.com>

UGlasgow TrypanosomaPopulationGenomics

PhD Studentship opportunity - Institute of Biodiversity Animal Health and Comparative Medicine (IBAHCM) / School of Life Sciences (SLS), University of Glasgow.

Supervisor: Dr. Martin Llewellyn (Advisors: Prof. Mario Grijalva; Prof. Bjorn Andersson; Prof. Erin Landguth)

Populations genomics to guide interventions against Neglected Tropical Diseases: Ecological and landscape genomics of *Trypanosoma cruzi* and associated vectors in Ecuador.

An NIH funded project is currently underway in Southern Ecuador to establish the landscape drivers of *Trypanosoma cruzi* (parasite) and *Rhodnius ecuadoriensis* (vector) genomic diversity and population connectivity. Research partners on this project include the Center for Infectious Disease Research at Catholic University, Quito, Ecuador (Prof., Mario Grijalva); Ohio University, USA (Prof., Mario Grijalva); the University of Montana, USA (Dr. Erin Landguth); The Karolinska Institute, Sweden (Prof. Bjorn Anderson) and the IBAHCM / SLS Glasgow (Dr. Martin Llewellyn)

Funding is in place for a three-year PhD studentship to accompany this NIH project at the University of Glasgow. Under the supervision of Dr. Martin Llewellyn and via integration with the project team the student have the opportunity to take the lead on population genomic analyses of both vectors and parasites, as well as to contribute to fieldwork activities and undertake training in spatial analyses, as well some wet lab activi-

ties (sequence library preparation etc). Finally, there is an opportunity to integrate into other ongoing research in the Dr. Llewellyn's lab (Current webpage: <http://mefgl.bangor.ac.uk/staff/martin.php>)

UK/EU students holding a 2:1 degree (or equivalent GPA) and above should apply. A good level of computer competency is vital; familiarity with R, linux/unix systems preferable; prior experience handling NGS data (including familiarity with python, perl etc) a bonus. Some Spanish language would be helpful.

For further details email martllewellyn@gmail.com

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Martin Llewellyn <m.s.llewellyn@bangor.ac.uk>

UHohenheim PlantPathogenCoevolution

The research group 'Crop Biodiversity and Breeding Informatics' is looking for a Research Associate (65%) - Ph. D. student

to work on a research project on the coevolution of maize and its pathogen *Exserohilum turcicum*, which causes Northern Corn Leaf Blight. The project is funded by the DFG within the Priority Program SPP1819 "Rapid evolutionary adaptation - Potential and constraints". The goal of the project is to identify the temporal and spatial dynamics of maize - pathogen coevolution in response to recurrent mass selection for resistance. Evolutionary processes will be inferred by sequencing both maize and pathogen populations using a leaf metagenome approach and a subsequent population genomic analysis that includes coalescent analyses and other methods. The co-evolution experiment are conducted at field sites in Switzerland and South Germany.

Your tasks: The candidate will be involved in the planning and coordination of the experiments in Germany and Switzerland, leaf sampling and sequencing with project partners. The main task is the analysis of the sequencing data using state-of-the art population and bioinformatics methods. The candidate will work in a larger interdisciplinary team of bioinformaticians, plant breeders and technicians.

Your qualifications: You have a Master-level degree in population and quantitative genetics, evolutionary biology, bioinformatics, plant breeding or plant pathology with a strong interest in the quantitative analysis of modern genomic data and the ability to develop and implement your own ideas. A good knowledge of statistics and and basic programming skills (e.g., Python, R) are required and you are expected to acquire additional knowledge of analysis tools and methods in a Linux high performance computing work environment. Training possibilities are offered within the SPP program and in courses at the University of Hohenheim. The collaborative nature of the project requires good organization and communication skills and the ability to work in a team.

The position is available immediately for three years and paid according to the E13 TV-L government salary scale (65% part-time). The University of Hohenheim is

an equal opportunity employer. Women and members of minority groups are strongly encouraged to apply.

At the University of Hohenheim there is a critical mass of well-connected research groups that work on current topics in genetics and related fields. The university is located on a beautiful campus in the South German city of Stuttgart, which has a very good cultural life and a nice surrounding.

Further information can be obtained from www.evoplant.uni-hohenheim.de or from the address below.

How to apply: Please upload your application (Cover letter, CV, transcripts, publications, a short letter of motivation and research interests, addresses of at least two references) until 4 October 2015 as a single PDF at this link: <http://uhoh.de/spp-phd>. Prof. Dr. Karl Schmid Institute of Plant Breeding, Seed Science and Population Genetics Universität Hohenheim Fruwirthstrasse 21 D-70599 Stuttgart, Germany Phone: +49 711 459 23487 Email: karl.schmid@uni-hohenheim.de Twitter: [kjschmid](https://twitter.com/kjschmid)

“karl.schmid@uni-hohenheim.de” <karl.schmid@uni-hohenheim.de>

UHouston EcologyEvolution

GRADUATE OPPORTUNITIES IN ECOLOGY AND EVOLUTIONARY BIOLOGY

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

Blaine Cole (bcole@uh.edu) - Evolution and social behavior Dan Graur (dgraur@uh.edu) - Molecular evolutionary bioinformatics Dan Wells (dwells@uh.edu) - Evolution of development and behavior Diane Wiernasz (dwiernasz@uh.edu) - Sexual selection Elizabeth Ostrowski (eaostrowski@uh.edu) - Experimental evolution and social evolution Erin Kelleher (eskelleher@uh.edu) - Evolutionary genetics and genomics George Fox (fox@uh.edu) - Experimental evolution and origin of life Gregg Roman (gwroman@uh.edu) - Evolution of behavior Kerri Crawford (kmccrawford3@uh.edu) - Community ecology Rebecca Zufall (rzufall@uh.edu) - Evolutionary genetics Ricardo Azevedo (razevedo@uh.edu)

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

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

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

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

“razevedo@Central.UH.EDU”
 <razevedo@Central.UH.EDU>

UMainz AntLifeHistoryEvolution

In the Faculty 10 Biology, Zoological Institute, Department of Evolutionary Biology at the University of Mainz is looking for an Assistant Professor / Junior Group Leader[] (Akademischer Rat at a University / Bes.Gr. A 13 BBesG)

Field: Evolution, Behavior and Genomics of Insects
 from February 1st 2016 on.

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 The contract is initially for 3 years with the possibility of extension to a total of nine years depending on previous employment at German universities (12-year rule). In case the prerequisites of civil service are not fulfilled, an engagement as a Scientific Assistant (EG 13 TV-L) is possible. More information on potential contract length and position can be given upon request. The earliest start of the position will be February 1st 2016.

We invite applications for an Assistant Professor (Akademischer Rat / A 13) position in the Department of Evolutionary (Prof. Dr. Susanne Foitzik) at the Institute of Zoology at Johannes Gutenberg University of Mainz, Germany. This young international research team focusses on the evolution, behavior, transcriptomics, chemical ecology of social insects

(http://www.bio.uni-mainz.de/zoo/evobio/index_ENG.php). Collaboration with the other groups of the Department of Evolutionary Biology are desirable. Scientific interactions or integration within the JGU research focus "Gene regulation in Evolution and Development" (www.imb-mainz.de/research/initiatives/GeneRED) would be advantageous.

Excellent research conditions are available at the newly renovated and well-equipped genetic and chemical laboratories in Mainz. Furthermore, new climate chambers are available for animal maintenance. A NextGen sequencing facility is available on campus. For further information, please contact foitzik@uni-mainz.de.

We are seeking a highly motivated young researcher with a strong background in evolution, behavior and genomics to establish a junior research group within the Department of Evolutionary Biology. Candidates must hold a Ph.D. and postdoctoral experience is necessary. The successful candidate should address evolutionary, behavioral ecological or genomic questions in insects, preferentially social insects. Scientific experience with the newest genetic methods (e.g. Next-Gen sequencing and transcriptomics) including bioinformatics analysis is advantageous.

The successful candidate should have an excellent publication record. Experience with grant acquisition and teaching is advantageous. The candidate should set-up an independent, competitive research group and is encouraged to apply for grants in Germany or the EU (e.g., DFG, ERC). The position comes with a teaching requirement of 4 h per week during the semester in the Master and Bachelor programs. Some basic zoology classes are preferably taught in German. Consequently, a willingness to learn German is required. The candidate has the option to acquire a *Habilitation*. The working language of the lab is English.

Requirements of appointment:

- University degree and a PhD in biology (or related field)
- a full-time employment of at least two years and six months after Master or PhD

The Johannes Gutenberg-University Mainz is interested in increasing the number of women in science. Applications from female scientists are strongly encouraged. Similarly, qualified candidates with disabilities will be preferred.

The University of Mainz (<http://www.unimainz.de/eng/>) hosts many excellent scientific institutions, including the Institute of Molecular Biology (IMB, www.imb-mainz.de) and Mainz is a historic city located on the

River Rhine with many students and a rich social and cultural life (<http://www.mainz.de/WGAPublisher/online/html/default/hpkr-5nkek8.en.html>).

Interested candidates should send an application (as a single e-mail pdf attachment) containing a CV, a list of publications (including reprints of the three most important publications), research and teaching statements, and contact information of two potential referees to:

Prof. Dr. Susanne Foitzik

Evolutionary Biology Institute of Zoology Johannes-v.-Müller-Weg 6 55099 Mainz Germany

Tel: +49 (0) 6131 39 27 840

foitzik@uni-mainz.de

Closing date for the application is September 13th, 2015.

Earliest possible starting date is February 1st 2016, later starting dates are negotiable, but participation in teaching in the summer semester 2016 (end April to July) is expected.

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

UMaryland Ecological Genomics

The Guger Lab at the University of Maryland Center for Environmental Science (UMCES) is seeking a motivated Ph.D. student interested in ecological genomics of trees. The student would design his/her own topic of investigation related to population, landscape, or ecological genomics; phylogeography; molecular ecology; hybridization; and/or epigenetics. The lab focuses on using next-generation sequencing approaches to understand how populations of long-lived trees respond evolutionarily to environmental change, the molecular basis of local adaptation, the factors influencing population divergence, the role of hybridization in adaptation and speciation, and implications for conservation under global change.

The ideal student will have prior research experience in population genetics or plant ecology/evolution, molecular laboratory skills, strong quantitative skills, and proficiency in or a strong interest in learning basic bioinformatics/programming (e.g. Linux, Python, R).

The position is based at the UMCES Appalachian Laboratory in Frostburg, Maryland and comes with a highly competitive stipend and benefits package. Three years

of support are available through research assistantships, with additional support possible through competitive teaching assistantships. Finalists for the position will also be encouraged to apply for fellowships through UM-CES: www.umces.edu/education/graduate/fellowships. The student will matriculate through the Marine, Estuarine, and Environmental Sciences Program (MEES) at the University of Maryland, College Park and will reside at the Appalachian Laboratory in Frostburg for the duration of the project. Frostburg is a small college town in the mountains of western Maryland, providing abundant outdoor recreational opportunities.

To apply, please email Paul Gugger (pgugger@umces.edu) a single PDF containing (1) a statement of interest, (2) a CV, and (3) contact information for three references. Please indicate "Genomics PhD position" in your subject line. Review of applications will begin November 1, 2015 and will continue until a suitable candidate is found, with starting dates available as soon as January 2016 and no later than September 2016.

UMCES is an affirmative action, EOE. Individuals with disabilities, veterans, women and minorities are encouraged to apply. This ad is also posted at <http://www.umces.edu/al/employment>. "pgugger@umces.edu" <pgugger@umces.edu>

UNevada Reno BioinformaticsGenomics

GRADUATE STUDENT POSITIONS IN BIOINFORMATICS AND GENOME EVOLUTION AT THE UNIVERSITY OF NEVADA, RENO

The Bioinformatics and Genome Evolution lab at the University of Nevada, Reno, is accepting applications from potential Ph.D. students.

Research areas in the lab include the evolution of molecular pathways and networks, organisms' genomic adaptation to different temperatures, protein rates of evolution, gene duplication, epigenomics, and the evolution of biomedically important genes.

More information on the lab can be found at www.genomeevol.wordpress.com. The ideal candidates have: - A strong commitment to high-quality research. - A strong interest in Molecular Evolution. - Experience with bioinformatics analyses, including programming in any scripting language (e.g. PERL or Python), or

a strong willingness to learn. - Good communication skills. - Good interpersonal skills. - The requirements to be accepted in the graduate program, including good scores in the GRE exam, and the TOEFL or IELTS exams in the case of international students.

Informal applications should be addressed to Dr. David Alvarez-Ponce (dap@unr.edu) as a single PDF, including: - A short application letter, addressing the applicant's motivation for the position, and how her/his experience and skills fulfill the requirements listed above. Please include your GRE and TOEFL/IELTS scores. - A full CV. - Contact information for potential referees.

Official applications are due to the University of Nevada, Reno in January.

The University of Nevada, Reno offers an interactive and productive research environment, including outstanding core facilities in proteomics, genomics, and bioinformatics. The Biology Department has a growing evolutionary genomics research community. Reno is located in the Sierra Nevada mountains near Lake Tahoe, and has been recently rated as one of the best small cities in the US for outdoor recreation and overall quality of life.

Please circulate this post among suitable candidates.

- David Alvarez-Ponce, PhD Assistant Professor Department of Biology University of Nevada, Reno Max Fleischmann Agriculture Building, office 140B Tel.: (775) 682-5735 www.genomeevol.wordpress.com david.alvarez.ponce@gmail.com

UNorthDakota BisonEvolution

U. North Dakota. AncientModernBisonGenetics. The Laboratory of Human and Forensic Genetics at the University of North Dakota (www.und.edu) is inviting applications from potential graduate students who pursue the MS degree. PhD candidates will be also considered.

A student will be engaged to a project on the historic, current and future status of bison herds from biological, archaeological, and cultural perspectives. It is a collaborative effort with Theodore Roosevelt National Park (THRO). This cross-disciplinary project represents an opportunity to get intensive training in the methods of ancient and modern DNA analyses including DNA isolation from a variety of tissues, next-generation and traditional sequencing, quality control of DNA templates, and bioinformatics. Genetic, phylogenetic, and demographic studies of extirpated and extant bison spec-

imens will be used to generate important insights for management of bison at THRO and other locations throughout the Midwest.

Candidates should demonstrate motivation for hard laboratory work and strong interest in molecular genetics and evolution. Preference will be given to students with a proven record of molecular biology skills. Additional experience in bioinformatics is a plus. If you are interested you need to apply to the University of North Dakota Biology Graduate Program using the regular procedure that can be found in the UND Graduate School website:

<http://graduateschool.und.edu/programs/degrees.cfm>

The additional information can be also found in the Biology Department website:

<http://arts-sciences.und.edu/biology/graduate/-programs.cfm>

The position starts in January 2016. To receive full consideration, applications and required materials should be received by the Biology Graduate Program not later than October 15.

Potential graduate students are strongly encouraged to make contact with Dr. Igor Ovchinnikov. Contact information:

Dr. Igor Ovchinnikov Associate Professor Lab. Of Human and Forensic Genetics Department of Biology University of North Dakota Email: igor.ovtchinnikov@email.und.edu

“Ovtchinnikov, Igor” <igor.ovtchinnikov@email.und.edu>

UOtago Epigenetic Inheritance

PhD position studying the effect of parental experience on transgenerational epigenetic inheritance in fish

Parents influence their offspring in multiple ways, but recent studies have highlighted the role of non-genetic (epigenetic) pathways. Revolutionary new work suggests that life-history challenges experienced by parents may be transmitted epigenetically to increase offspring fitness. We seek a highly motivated and enthusiastic student to investigate whether environmental challenges experienced affect the fitness of multiple generations, and to identify key candidate genes for transgenerational effects. This work will use a vertebrate model, the zebrafish (*Danio rerio*), and involves extensive experimental work manipulating environmental stressors (e.g. toxins, hypoxia), personality and life-history phe-

notyping, breeding the lines through to obtain multi-generational data, and the generation and analysis of next-generation sequence data. This work involves an exciting multidisciplinary team led by Dr. Sheri Johnson (Department of Zoology, University of Otago, New Zealand): two collaborators from Otago (Prof Neil Gemmell and Dr Tim Hore in the Department of Anatomy), a collaborator at the University of New South Wales (Associate Prof Shinichi Nakagawa) and a collaborator from Uppsala University (Associate Prof Simone Immler).

Selection criteria: We seek a student with a strong academic record, a keen interest in behavioural ecology, appropriate practical and technical experience, and a demonstrated ability in written and oral communication.

Application/scholarship details: If you are interested in joining our exciting project at Otago, please send an e-mail with an expression of interest, explaining why you are interested in this project, and your CV to Sheri Johnson (sheri.johnson@otago.ac.nz). High quality applicants will apply for an Otago PhD scholarship, which covers tuition and provides a stipend (\$25000 NZD/year).

The position will remain advertised until filled.

For information on PhD study at the University of Otago, including entry requirements, see: <http://www.otago.ac.nz/postgraduate/index.html> . For information on the Department of Zoology, see: <http://www.otago.ac.nz/zoology> . Sheri L. Johnson, PhD

Lecturer of Behavioural Ecology
sheri.johnson@otago.ac.nz Department of Zoology |
M102 University of Otago | Te Whare Wānanga o
Ōtago Box 56 Dunedin 9054 New Zealand ☎340
Great King St ☎P (64) (3) 479- 7929 ☎F (64) (3)
479-7584 ☎<http://www.otago.ac.nz/Zoology> Sheri
Johnson <sheri.johnson@otago.ac.nz>

UOttawa 2 Genomics

The Corradi Lab is currently seeking two talented graduate students (PhD level). Students will be supervised by Dr. Nicolas Corradi within a CIFAR (Canadian Institute for Advanced Research) - affiliated laboratory located in the Department of Biology of the University of Ottawa, Canada.

Lab Website: <http://corradiilab.weebly.com/> The selected candidates will pursue and expand work on two

new exciting research areas in the lab: 1) Genomics of adaptation in intracellular bee-pathogens (*Nosema ceranae* and *N. apis*); or 2) Genome and mating-type organization in the Arbuscular Mycorrhizal Fungi. Enquiries about specific projects can be sent to ncorrad@uottawa.ca. Applicants are expected to have a good background in either microbiology, mycology or population genetics, and some fair knowledge in comparative genomics. Prior experience with Fungal Genetics (Mating-type analyses, Crossing), Metagenomics/Environmental Genomics, Environmental Sampling, Strain cultivation (AMF spores), Fungal taxonomy or transcriptomics will be seen as an asset for the final selection of the candidate. Basic knowledge of Unix/Linux is desired. The lab is bilingual (English and French). For international applicants, Fluency in French desired, but is not required. A complete application package includes 1) a CV, 2) a short description of past research accomplishments and future goals, and 3) the names and e-mail addresses of at least 2 references. Evaluation of applications starts immediately until suitable candidates are found. The University of Ottawa is a large, research-intensive university, hosting over 40,000 students and located in the downtown core area of Canada's capital city (<http://www.science.uottawa.ca/fac/welcome.html>). Ottawa is a vibrant, multicultural city with a very high quality of life (<http://www.ottawatourism.ca/fr/>). Complete applications can be sent to Dr. Nicolas Corradi (ncorrad@uottawa.ca). Representative Publications: - Pelin A., Selman M., Laurent Farinelli, Aris-Brosou S. and N. Corradi. 2015. Genome analyses suggest the presence of polyploidy and recent human-driven expansions in eight global populations of the honeybee pathogen *Nosema ceranae*. *Environmental Microbiology - Ropars J. and N. Corradi*. 2015. Heterokaryotic vs Homokaryotic Mycelium in the Arbuscular Mycorrhizal Fungi: Different Techniques, Different Results? *New Phytologist*

- Corradi, N. 2015. Microsporidians: Intracellular Parasites Shaped by Gene Loss and Horizontal Gene Transfer. *Annual Review of Microbiology - Riley R., Charron P., Idnurm A., Farinelli F., Yolande D., Martin F. and N. Corradi*. 2014. Extreme diversification of the mating type-specific mobility group (MATA/HMG) gene family in a plant-associated arbuscular mycorrhizal fungus. *New Phytologist - Tisserant E., Malbreil M. et al*. 2013. Genome of an arbuscular mycorrhizal fungus provides insight into the oldest plant symbiosis. *PNAS*

Nicolas Corradi

Professeur Agrégé / Associate Professor

Boursier de l'Institut canadien en recherches avancées / Fellow of the Canadian Institute for Advanced Research

Université d'Ottawa / University of Ottawa
Département de biologie / Department of Biology
Pavillon Gendron / Gendron Hall Bureau 257 / Room 257 30 Marie Curie Priv. Ottawa ON Canada K1N 6N5

Tel. +1 (613) 5625800 # 6563

Website: <http://corradiab.weebly.com> Nicolas Corradi
<ncorrad@uottawa.ca>

UppsalaU HostGutMicrobiotaInteractions

PhD position in Animal Ecology, studying interactions between a host and its gut microbiota at Uppsala University

A PhD position is available at Animal Ecology, the Department of Ecology and Genetics, Evolutionary Biology Centre, Uppsala University, Sweden, starting autumn 2015.

The student will work in a project studying coevolution and co-divergence between a host (Eurasian perch) and its gut bacteria. In this project, the student will investigate the interactions between the host and its gut microbiota in response to different stress factors. The successful candidate will settle the exact profile of her/his PhD project together with the supervisor Dr. Richard Svanbäck.

The successful candidate should have a keen interest in population biology and evolutionary ecology. The position requires a MSc degree (or equivalent) in ecology or a related field, fluency in English, and the ability to conduct independent field and lab work. Previous experience with microbial genetics and statistical skills are a plus.

The candidate will receive her/his postgraduate training within the postgraduate school at the Evolutionary Biology Centre (<http://www.ebc.uu.se/?languageId=1>). The postgraduate training comprises four years of full time studies. The position can be combined with up to 20% of teaching assistantship, which will then prolong the position accordingly.

The application should include a letter of intent describing yourself, your undergraduate training, research interests and experience, and a motivation of why the position is of interest. It should further include Curriculum vitae, an authorized copy of the undergraduate degree, and the names and contact information (address,

email address, and phone number) of two reference persons. Relevant publications (including BSc/MSc thesis) should be enclosed.

For further information regarding the position and project, please contact Associate Prof. Richard Svanbäck (e-mail: richard.svanback@ebc.uu.se). Applications should also be sent via e-mail to Richard Svanbäck, and will be accepted until October 16, 2015.

Richard Svanbäck Department of Ecology and Genetics, Animal Ecology Norbyvägen 18D SE-752 36 Uppsala Sweden email: richard.svanback@ebc.uu.se

Richard Svanbäck <richard.svanback@ebc.uu.se>

UQuebec TroisRivieres Contemporary Human Evolution

MSC OPPORTUNITIES IN CONTEMPORARY HUMAN EVOLUTION

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

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

DESCRIPTION

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

Successful candidates will perform research in evolutionary genetics of life-history traits in replicate populations, in eco-evolutionary dynamics across a ~250 year window, as well as on the consequences of evolution on functional genetic variants, such as those involved in genetic diseases (depending on the specific project). Candidates will have the chance to work with exceptional data (pedigree and/or molecular data) from the Québec

population, which has become a world-wide recognized model in population genetics.

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

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

CONDITION FOR ADMISSION

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

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

DOCUMENTS REQUESTED TO APPLY

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

Do not hesitate to contact me for further information:

Emmanuel Milot E-mail : emmanuel.milot@uqtr.ca
Phone : +1 819 376-5011, ext. 4397 Web page :

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

"Emmanuel.Milot@uqtr.ca"
<Emmanuel.Milot@uqtr.ca>

USunshineCoast SocialEvolutionSexualSelection

PhD projects available in Celine Frere's Lab around the themes of social evolution and sexual selection using the eastern water dragon as an empirical study system. In my lab, we use longitudinal life-history datasets on wild populations comprising behavioural, spatial and genetic information to answer questions about evolutionary processes. In particular, we aim to shed light on how environmental and social factors influence evolutionary processes. We recently published a paper that showed that female water dragons are polyandrous and male reproductive success seems to be bias towards more heterozygous males. Multiple mating in female animals is something of a paradox because it can either be risky (e.g., higher probability of disease transmission, social costs) or provide substantial fitness benefits (e.g., genetic bet hedging whereby the likelihood of reproductive failure is lowered). In this context, I am interested to investigate (1) whether females manipulate their social environment to maximise the genetic benefits of their offspring.

On the other hand, males display alternative mating tactics (ARTs), switching between either aggressively defending a territory or adopting satellite behavior. Here, I am interested to investigate (2) the extent to which ARTs influence reproductive outcomes for males.

The study site is found within the Roma Street Parkland (RSP) (27° 27' 46" S, 153° 1' 11" E) located in Brisbane, Queensland, Australia. RSP is a 16 hectare park and is the world's largest subtropical garden in a city centre. It is also host to a large population of Eastern water dragons with a population size estimated to exceed 600 animals (Gardnier et al. PloS ONE doi:10.1371/journal.pone.0096992). Ecological, behavioural surveys have been conducted on this population since October 2010 with morphological and DNA samples collected from more than 350 animals. The student will be based in the Centre for Animal Health Innovation at the University of the Sunshine Coast, Queensland, Australia. The student should be interested in combining behaviour, ecology and genetics. Please visit www.celinefrerelab.com for more information.

Applicants will need to have an extremely competitive academic record and obtain an Australian Postgraduate Award or International Research and Fee Remis-

sion Scholarships (for details and scholarship application forms <http://www.usc.edu.au/research/research-students/hdr-scholarships>). The main application deadlines for these scholarships are 1st of October 2015 (Domestic and International).

Interested students are invited to email their CV to Celine Frere (cfrere@usc.edu.au < <https://lists.uvic.ca/mailman/listinfo/marmam> >).

Celine Frere PhD Research Fellow Office: H1.51 Faculty of Science, Health, Education and Engineering University of the Sunshine Coast 90 Sippy Downs Drive Sippy Downs Queensland 4556 Australia mobile: 0423312893 work: 0754565415 celinefrerelab.com [cid:image002.jpg@01D0D8E1.DA4153E0]

University of the Sunshine Coast, Locked Bag 4, Maroochydore DC, Queensland, 4558 Australia.

CRICOS Provider No: 01595D Please consider the environment before printing this email.

cfrere@usc.edu.au

WageningenU SexualSelection

PhD position: Sexual selection in the wild: male song and female choice in great tits (*Parus major*)

Location: Behavioural Ecology Group, Wageningen University, The Netherlands

Deadline: 1 October

We offer a PhD Position (1.0 FTE) to undertake research on female mate choice, male song, and reproductive investment in great tits within the Behavioural Ecology chair group at the Animal Science Department of Wageningen University, the Netherlands. This position is financed by the Netherlands Organisation for Scientific Research (NWO).

The aim of this project is to determine the behavioural decisions underlying female choice, in wild great tits (*Parus major*). The project will quantify the relation between male singing and female song preference and movements. These will then be linked to personality traits and fitness-relevant genetic analyses. This project will apply an automatized radio-tracking system (Encounternet), combined with male song monitoring, genetic analyses, and integrated lab- and field female choice tests. The project is supervised by Prof. Marc Naguib and Dr. Camilla Hinde at Wageningen University in collaboration with Dr. Kees van Oers at the Animal

Ecology Department of the Netherlands Institute of Ecology (NIOO-KNAW) and with Dr. Katharina Riebel (Institute of Biology, Leiden University). The field research will be conducted at a field site managed by the Netherlands Institute of Ecology with a population of personality-types great tits which has been monitored since many years. Indoor experiments will be conducted at the NIOOs excellent indoor facilities.

Function Requirements

* MSc-degree in Biology with specialization in Animal Behaviour / Behavioural Ecology or equivalent experience * Strong experimental and analytical skills * Good organizational and (written and spoken) communication skills in English * Proven ability to collaborate with others. * Willingness to conduct and organize extensive ornithological fieldwork. * Willingness to travel internationally, to attend conferences and visit other institutes. * A driving licence

Working conditions

* As a PhD candidate, you will be offered a fulltime position (38 hours) for 4 years, after which you should have completed your PhD thesis and individual training plan. The salary for a PhD candidate starts at £á 2.125,- gross per month in the first year and extends to a maximum of £á 2.717,- gross per month in the fourth year (in accordance with the Collective Labour Agreement for Dutch Universities). * Participation in the training program of the Graduate School WIAS at Wageningen University. * Stimulating international research environment * An excellent opportunity to develop an international scientific network.

Contact information

For further information, please contact Marc Naguib (marc.naguib@wur.nl). The application deadline is October 1 2015. Applications should include a letter of motivation, CV and names of three references. Please use the application button on <http://www.wageningenur.nl/en/Jobs/Vacancies.htm> or Academic Transfer.

Acquisition regarding this vacancy is not appreciated.

Organization

Wageningen University and Research Centre delivers a substantial contribution to the quality of life. That's our focus V each and every day. Within our domain, healthy food and living environment, we search for answers to issues affecting society V such as sustainable food production, climate change and alternative energy. Of course, we dont do this alone. Every day, 6,500 people work on the quality of life, turning ideas into reality, on a global scale. Do you want to be one of these people? We give you the space you need. For further information about working at Wageningen UR, see www.jobsat.wur.nl. This project will be carried out in the Behavioural Ecology Group within the Department of Animal Sciences.

Prof. Dr. Marc Naguib Behavioural Ecology Group, Department of Animal Sciences Wageningen University, De Elst 1, Building 122 6708 WD Wageningen, The Netherlands, Tel. +31 (0)317 483860 <tel:+31%20(0)317%20483860>

marc.naguib@wur.nl <http://www.wageningenur.nl/bhe> "Naguib, Marc" <marc.naguib@wur.nl>

Jobs

AmherstCollege IntroAdaptationOrganism LabTeaching	BostonU MarineGenomics	50
49	CaliforniaAcademyOfSciences Curators	51
BostonCollege 3yr TeachingEvolution	CaliforniaStateU Northridge PlantEvolution	52
50		

CalStateU Fresno PopulationBiol	52	ics	75
ClarkU Microbiology	53	UCBerkeley ViralEvolution	76
CornellU Curator	54	UCincinnati EvolutionaryMicrobiol	77
DukeU LabTech EvolutionaryGenetics	54	UConnecticut Arthropod Evolution Ecology	78
EastCarolinaU FishEvolution	55	UFlorida ResTech EvolutionDisease	79
EmoryU EvolutionDisease	56	UGlasgow EvolutionaryMicrobiology	80
EmoryU EvolutionInfectiousDisease	56	UHohenheim Stuttgart Bioinformatician	80
GeorgeWashingtonU LabManager DrosophilaEvol ..	57	UKentucky MicrobialEvolution	81
GeorgiaCollegeStateU AvianEvolution	58	UKentucky ResTech BehavioralEvolution	81
GeorgiaSouthernU SystemsBiology	59	UKentucky Tech InsectEvolution	82
GeorgiaTech EvolutionaryEcol	60	ULubeck EvolutionDisease	82
Harvard 2 Paleobiology	60	UMemphis TeacingEvolutionaryBiol	83
LouisianaStateU CollectionsManager	61	UMiami EvolutionGenomics	84
NatureCommunications editor evolution	62	UMichigan EvolutionaryBiol	84
OkinawaInstSciTech EvolutionaryBiol	62	UMissouri 2 Evolution	85
PurdueU 8 PlantEvolution	63	UMontreal PlantEvoDevo	86
RutgersU ComputationalGenetics	63	UnitedArabEmiratesU ResAssist Adaptation	87
SanDiegoStateU PlantEvolutionaryBiology	64	UNorthCarolina ChapelHill Biodiversity	87
SantaBarbaraBotanicGarden RarePlants	65	UNotreDame Evolution	88
SimonFraserU Canada PopulationModeling	66	UOklahoma 2 EvolBiol	89
SonomaStateU IntegrativePlantEvolution	66	UOklahoma PlantSytematicsCurator	90
StockholmU Sweden 2 PopulationGenetics	67	UOregon EvolutionaryGenetics	91
TexasAMU EvolutionVertebrateBehavior	67	UPennsylvania EvolutionaryEcology	91
TexasAMU WetlandsAvianConservation	68	USouthernCalifornia MarineMetazoanAdaptation ..	92
UAlabama PlantSystematics	69	UTennessee 4 EvolutionaryBiol	92
UAlbany SUNY EvolutionDiseases	70	UTexas Arlington EvolBiol	93
UArizona 5 Genomics	71	UTexas El Paso PopulationGenetics	94
UBath Bioinformatics PlantPathogenInteractions ..	71	UToronto Scarborough TeachingEvolution	95
UBritishColumbia RestorationEcology	72	VirginiaTech PlantEvolution	95
UCalifornia Davis LabTech InsectPhylogenetics ..	73	WakeForestU Genomics	96
UCalifornia Riverside EvolGenomics	73	WayneStateU ResAssoc FishEvolution	97
UCalifornia Riverside EvolutionaryEcol	74	YaleU EvolutionaryPhysiology	97
UCalifornia Riverside EvolutionaryEcol 2	75		
UCalifornia SanDiego Teaching GenomicsBioinformat-			

Amherst College IntroAdaptationOrganism LabTeaching

AmherstCollege.Adaptation&Organism.LabTeaching

Laboratory Teaching Position

Biology Department, Amherst College

The Biology Department (<https://www.amherst.edu/academiclife/departments/Biology>) at Amherst College is seeking to fill a laboratory teaching position with primary responsibility for the introductory course, Adaptation and the Organism, in the spring semester. Sec-

ondary responsibility will be assisting in other laboratory courses in the fall semester.

To apply online, please visit our web site at <https://-jobs.amherst.edu> Amherst College is an equal opportunity employer and encourages women, persons of color, and persons with disabilities to apply. The College is committed to enriching its educational experience and its culture through the diversity of its faculty, administration, and staff.

Michael E. Hood Associate Professor and Chair Biology Department Amherst College Amherst, MA USA 01002-5000 ph (413) 542-8538 email: MHood@amherst.edu <https://www.amherst.edu/people/facstaff/mhood> Michael Hood <mhood@amherst.edu>

BostonCollege 3yr TeachingEvolution

Boston College: Biology Department

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

Location: Chestnut Hill, MA

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

Qualifications

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

Application Instructions

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

The teaching statement should indicate how the applicant will leverage their research accomplishments into lecture and laboratory experiences for undergraduates. Review of applications begins October 1, 2015 will continue until the position is filled. This institution is using Interfolio's ByCommittee to conduct this search. Appli-

cants to this position receive a free Dossier account and can send all application materials, including confidential letters of recommendation, free of charge.

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

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

BostonU MarineGenomics

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

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

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

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

We are an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability status, protected veteran status, or any other characteristic protected by law. We are a VEVRAA Federal Contractor. Women and minorities are especially encouraged to apply.

“hammer@bu.edu” <hammer@bu.edu>

California Academy of Sciences Curators

Assistant, Associate or Full Scientist/Curator

Do you have a passion for cutting-edge biodiversity science and applying it to global sustainability challenges?

The California Academy of Sciences seeks to fill several endowed positions with Ph.D.-level scientists who do outstanding biodiversity / ecological science, focus on broader science communication & engagement, care about increasing diversity in science, connect their work to real-world sustainability outcomes, and want to change the world.

Under new leadership, the Academy is aggressively investing in groundbreaking scientific research & discovery, and hiring new scientists who will help us pursue our mission to Explore, Explain and Sustain Life on Earth. We are eagerly seeking up-and-coming scientific leaders with expertise in biodiversity, ecology & evolution, and global environmental change. At the Academy, scientists and curators are appointed in hard-money, endowed positions within our Institute for Biodiversity Science and Sustainability (IBSS), and are expected to embrace scientific exploration, science communication & engagement, increasing diversity, and making a real difference in environmental sustainability.

Founded in 1853, the Academy offers a unique and powerful setting to conduct scientific research and engagement. Housed in its Double LEED Platinum building in San Francisco's Golden Gate Park, the Academy combines a world-class museum, research institute, and

educational center all under one roof. Facilities include outstanding research collections (with almost 46 million specimens); a world-leading digital planetarium / visualization studio; premiere aquarium facilities with nearly 40,000 living animals and unique culturing facilities; indoor rainforest, coral reef, and California coast habitats; numerous exhibits and educational facilities; and advanced research laboratories for work in genomics, specimen preparation, digitization, computer modeling, scientific visualization, etc. The Academy also recently acquired iNaturalist, a platform that engages global observers in high-quality data collection for citizen science. Furthermore, the Academy includes outstanding research and education staff who integrate science with cutting-edge virtual and in-person educational programming.

The new scientist cluster hires will join nearly 100 other staff and students in IBSS, and help us address some of the world's most pressing problems related to biodiversity conservation, ecosystem health, global environmental change, and sustainability and communicate it to stakeholders and a diverse public.

The open positions are broad, and we are searching in many areas of biodiversity science and related fields. The Academy especially seeks experts in coral reef biology, tropical rain forests, the ecology of California, and the impacts of global change on biodiversity, as well as candidates with interests in marine mammals and amphibian decline. We seek candidates with skills in big data, modeling, GIS, visualization, genomics, and innovative methods for field- and collections-based research. Candidates who connect their work to larger sustainability challenges are of special interest. Candidates must also show leadership in science communication and engagement, as well as an interest in increasing diversity in science.

Candidates will be reviewed until all positions are filled; for full consideration, send applications by November 1, 2015. Interviews will be held early in 2016; starting dates are negotiable. Suitable candidates must have a doctorate in a relevant field; postdoctoral experience or equivalent training; enthusiasm for communicating science to broad audiences; commitment to expanding diversity in science; and a passion to pursue research with sustainability outcomes.

A complete application consists of the following which you will be asked to upload: 1. Cover letter; 2. Curriculum vitae; 3. Three, two-page vision statements (one outlines your scientific goals, another your education & engagement goals, and lastly the sustainability outcomes of your research); 4. Four publications (two technical and two examples of public/media outreach); 5. Two

letters of reference plus a list of 3-5 additional contacts. “Gray, David A” <david.gray@csun.edu>
Additional questions? Contact the Chief of IBSS, Dr. Meg Lowman (mlowman@calacademy.org).

The California Academy of Sciences is an Equal Opportunity Employer and committed to ensuring that all employees and applicants receive equal consideration and treatment, regardless of race, color, creed, gender (including gender identity or gender expression), religion, marital or domestic partner status, age, national origin or ancestry, physical, mental or medical disability, sex, sexual orientation, citizenship, military service status, veteran status, or any other characteristic protected by state or federal law or local ordinance.

The California Academy of Sciences will consider for employment all

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CaliforniaStateU Northridge PlantEvolution

Plant Evolutionary Biologist

California State University, Northridge, seeks a Plant Evolutionary Biologist to become a tenure-track Assistant Professor of Biology. Applicants research should address evolutionary questions in plant biology, with a preferable focus on molecular systematics. Applicants must have a Ph.D. and postdoctoral experience. Teaching will include Evolutionary Biology, Flowering Plants, and/or an upper division course developed by the applicant. The successful candidate is expected to develop a vigorous research program involving undergraduate and M.S. students, aggressively seek extramural funding, demonstrate teaching excellence, and provide effective instruction to students of diverse backgrounds in a multicultural setting.

For more information and application procedure visit: <http://www.csun.edu/science-mathematics/biology/-jobs> Screening application will begin on November 1, 2015.

California State University, Northridge is an Equal Opportunity Employer committed to excellence through diversity.

CalStateU Fresno PopulationBiol

College of Science and Mathematics Biology Vacancy # 12736 <http://www.fresnostate.edu/csm/>

Population Biologist Assistant Professor

California State University, Fresno is an engaged University. We focus on broadening students' intellectual horizons, fostering lifelong learning skills, developing the leaders of tomorrow, promoting community involvement, and instilling an appreciation of world cultures. We nurture cultural competence by celebrating the rich diversity of the campus community and welcoming the participation of all. Members of the University community are expected to work effectively with faculty, staff and students from diverse ethnic, cultural and socioeconomic backgrounds. For information on the University's commitment and dedication to creating a university known for its integrity, civility, equity, respect and ethical behavior, please visit: <http://www.fresnostate.edu/academics/diversity> Available for Academic Year: 2016/2017. Fresno State has been recognized as a Hispanic-Serving Institution (HSI); an Asian American/Native American/Pacific Islander-Serving Institution (AANAPISI); and has been designated to the Community Engagement Classification by the Carnegie Foundation for the Advancement of Teaching. Faculty members gain a clear path to tenure through the University's Probationary Plan Process. Salary placement depends upon academic preparation and professional experience.

Position Summary:

The successful candidate will be a broadly trained biologist with expertise in population biology whose research program involves computational biology, systems biology, bioinformatics, or population genetics/genomics. Focal areas of expertise might include computational approaches or modeling at the molecular, cellular, organismal or population level to address population oriented questions. Specific teaching assignments will depend on the candidate's expertise and departmental needs. The successful candidate is expected to develop a research program that involves both undergraduate and graduate students and pursue the external funding necessary to maintain a successful research effort. Faculty members are also expected to engage in service activities at all levels of the university and provide academic and profes-

sional advice to students. The successful candidate will have access to NSF and NIH funded instrumentation.

Overview:

The Department of Biology consists of excellent teachers with active, externally-funded research programs. They are dedicated to providing students with cutting-edge experiences in their areas of expertise. The department includes 19 full-time faculty with research strengths in physiology, ecology and evolutionary biology, molecular genetics, cellular and developmental biology, and microbiology, with whom the successful candidate may collaborate. In addition, a population biologist/geneticist could develop interdisciplinary collaborations with mathematics and computer science faculty within the college. Required Education: An earned doctorate (Ph.D.) in Population Biology or other closely-related disciplines from an accredited institution (or equivalent) is required.

Required Experience:

1) Evidence of publications in scholarly journals 2) Demonstration of grant writing or scholarly activity at the university level and 3) Ability to demonstrate a commitment to working effectively with faculty, staff, and students from diverse ethnic, cultural, and socioeconomic backgrounds.

Preferred Qualifications:

1) Successful teaching experience at the undergraduate level 2) Postdoctoral research or experience 3) A publication record that is commensurate with the candidate's experience 4) Success obtaining extramural grants and contracts for research.

Application Procedures:

Review of applications will begin on Friday October 30, 2015 and continue until the position is filled. Individuals interested in being considered for this position should submit an online application at <http://jobs.fresnostate.edu> and attach the following supporting documents: 1) a cover letter specifically addressing required experience and preferred qualifications, 2) a C.V., 3) a statement of current and future research, 4) a statement of teaching philosophy, 5) a list of five professional references. Finalists will be required to submit (1) three current letters of recommendation and (2) official transcripts. For inquiries contact Dr. Ulrike Müller, Search Committee Chair; California State University, Fresno; College of Science and Mathematics; Department of Biology; 2555 E San Ramon Ave, SB73; Fresno, CA 93740-8034; email: umuller@csufresno.edu Phone: (559) 278-2532; fax: (559) 278-3963.

Other Requirements:

A link to the Annual Safety and Security/Fire Safety

Report is

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ClarkU Microbiology

Assistant Professor of Microbiology Biology Department, Clark University *Review of applications will begin November 1, 2015*

The Department of Biology at Clark University, Worcester MA (www.clarku.edu/departments/biology/) invites applications for a tenure-track appointment at the rank of Assistant Professor to begin Fall 2016. The successful candidate will have research space in the LEED-certified Lasry Center for Biosciences and is expected to develop an externally-funded research program involving Ph.D., MS, and undergraduate students in Biology or in Biochemistry and Molecular Biology (BCMB). Postdoctoral experience and evidence of external funding success are desired. Promise of teaching excellence at undergraduate and graduate levels is expected. Any area of microbiology will be considered, although preference will be given to those incorporating genome-enabled approaches in their research. The successful candidate will teach microbiology and courses in their area of expertise.

Clark University is especially interested in qualified candidates who can contribute, through their research, teaching, and/or service, to the diversity and excellence of the academic community. We are an affirmative action/equal employment opportunity university and we strongly encourage women and members of minority groups to apply. Applicants should submit a curriculum vitae, statements of research and teaching interests, and three key publications in one electronic file. Three letters of reference should be submitted electronically by the referees to the Microbiology Search Committee (microbiology@clarku.edu). Letters can also be mailed to the Chair of the Microbiology Search Committee, Department of Biology, Clark University, 950 Main St, Worcester, MA 01610-1477. E-mail inquiries may be directed to Justin Thackeray (jthackeray@clarku.edu). Review of applications will begin November 1, 2015.

John G. Gibbons Assistant Professor of Biology Clark University 950 Main Street Worcester, MA 01610

Email: jgibbons@clarku.edu Tel: 508.793.7129 <https://-wordpress.clarku.edu/jgibbons/> “JGibbons@clarku.edu” <JGibbons@clarku.edu>

CornellU Curator

Curatorial/Research Associate

Ichthyology and Herpetology Collections

Department of Ecology and Evolutionary Biology

Cornell University

The Cornell University Museum of Vertebrates (CUMV) is seeking an ichthyologist or herpetologist to curate and grow the collections through an organized program of accession involving Cornell students in all aspects of museum-based activities. We are interested in a leader for all aspects of the program, from field collections through specimen preparation and curation, to use of the collections in modern specimen-based research. The successful candidate will curate the Ichthyology and Herpetology Collections (with the collaboration of a full-time collections manager) and maintain an active research program in collections-based research.

The CUMV is a unit of the Department of Ecology and Evolutionary Biology and is housed in the modern Imogene Powers Johnson Center for Birds and Biodiversity, along with the Lab of Ornithology and its ~200 faculty and staff. The CUMV holdings include over 1.25 million specimens, including over 1.25 million fishes, 30,000 amphibian and reptile specimens, and a substantial tissue collection. The CUMV includes space for teaching, specimen preparation and molecular work; a walk-in freezer; X-ray lab; dermestarium; etc. Cornell supports a diverse community of faculty, staff and students pursuing an uncommonly large number of programs and projects in vertebrate biology, ecology and evolution.

Qualifications: Applicants should have a Ph.D. in ichthyology, herpetology, or related area, have broad knowledge of fishes and/or amphibians and reptiles, have experience working with natural history collections, and display an interest in interacting with students and the broader scientific communities at Cornell and beyond.

Inquiries are encouraged to either of the co-chairs of the search committee: Prof. Amy R.

McCune (arm2@cornell.edu) or Prof. Kelly Zamudio (krz2@cornell.edu). Please submit (as a single pdf file) a CV, a letter describing your vision for future collections-

based research and education, and the names, phone numbers, and email addresses of three individuals who can serve as references to: curator_search@cornell.edu. Review of applications will begin 15 November 2015 and continue until the position is filled.

Cornell University is an equal opportunity/affirmative action employer.

Applications from women and minorities are encouraged.

Patty Jordan

Graduate Field Assistant Ecology and Evolutionary Biology Cornell University E235 Corson Hall Ithaca, NY 14853

607-254-4230

Pj17@cornell.edu

Patty Jordan <pj17@cornell.edu>

DukeU LabTech EvolutionaryGenetics

The Yoder Lab in the Department of Biology at Duke University seeks a fulltime Laboratory Research Technician. Research in the Yoder Lab is focused on evolutionary genetics in the broadest sense, with a specific interest in the biota of Madagascar. Current projects cover a wide range of empirical and bioinformatic applications, including virtually all of the 'omics' particularly speciation genomics, phylogenomics, transcriptomics, metagenomics, and genome assembly of non-model organisms.

The successful candidate will have an undergraduate degree in biology or a related field, experience with wet lab molecular techniques and/or bioinformatics (e.g., experience in a Unix/Linux environment, including proficiency in shell scripting, and scripting in a language such as Perl or Python), precise organizational skills, and a strong work ethic. Basic knowledge of web programming and maintenance (e.g., HTML; WordPress) is a must. As part of the position's duties, the candidate should be willing to offer assistance to the PI in keeping her calendar and managing various administrative duties. The division of labor between research and administrative assistance will be approximately 80/20, respectively, though this will fluctuate with project priorities.

Very importantly, the successful candidate will be mature, enthusiastic, and highly motivated. All current

members of the lab group are collaborative, independent, and supportive of each other. It is a great environment, both for learning, and for contributing. We work hard, and we play hard, so don't forget to bring your esprit de corps and joie de vivre!

Conditions:

Funding for the position is guaranteed for three years. Annual renewal (beginning in year one of the position) will be contingent upon satisfactory performance evaluations. Salary is competitive, and the position will carry full Duke benefits. Review of applications will begin immediately and continue until the position is filled.

To Apply:

Via email, send current CV, any relevant publications, and contact information for three to four references to:

Anne D. Yoder, Professor Department of Biology
Duke University, Box 90338 BioSci 315 Science Drive
Durham, NC 27708 ph: 919-660-7275 fax: 919-660-7293
anne.yoder@duke.edu <http://www.biology.duke.edu/-yoderlab/> Director, Duke Lemur Center 919-489-3364,
ex. 223 <http://lemur.duke.edu/> anne.yoder@duke.edu

EastCarolinaU FishEvolution

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

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

The successful candidate will be expected to establish a vigorous, externally funded research program that involves work in a coastal area; teach undergraduate and graduate-level courses in aquatic sciences such as: fisheries biology, environmental biology, and marine biology; mentor students in the M.S. and Ph.D. programs; and contribute to ECU's research initiatives, centers,

and institutes (Biodiversity Initiative, Center for Sustainability, Institute for Coastal Science and Policy). Candidates are expected to engage in university, regional, community, and professional service. Research foci should complement existing ECU research programs, which include groups taking interdisciplinary and ecological approaches. Departmental resources include a high performance computing facility, central environmental lab, genomics core facility, imaging facility, university-owned natural areas, and a fleet of field vehicles and small vessels (capable of electrofishing, trawling, gill netting, hydroacoustic surveys, including a new NSF-funded autonomous wave glider for fisheries research). ECU-AFS is an award-winning student subunit of the American Fisheries Society based in our department. East Carolina University students and faculty have collaborated extensively with scientists in the region at state and federal agencies (North Carolina Division of Marine Fisheries, NC Department of Natural Resources, APNEP, and the NOAA Fisheries Laboratory at Beaufort, NC) as well as academic partners (notably the UNC Coastal Studies Institute as well as UNC system universities, and Duke Marine Laboratory). Please visit our website at www.ecu.edu/biology for more information on the department.

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

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

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

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

the documents requested in order to be considered for the position.

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

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

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

EmoryU EvolutionDisease

Tenure Track Position in Ecology and Evolution of Infectious Disease

The Department of Biology at Emory University seeks applications for a tenure-track Assistant Professor in ecology and evolution of infectious disease in Fall 2016. We will consider applicants with research programs in any aspect of the ecology and evolution of infectious disease, using approaches that include but are not limited to field experimentation, theoretical modeling, experimental evolution, genomics and synthetic biology. We encourage applicants with strong mathematical and statistical modeling components to their work. Applicants must hold a PhD or equivalent degree and 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/).

In addition to a CV with a complete publication list, applicants should submit the following: (1) A statement of their current and anticipated research and approach with a clear description of the questions that they are addressing. This statement should explicitly indicate the significance of their research to infectious disease ecology and evolution at large. (2) A statement related to teaching, with a description of how they will contribute to the Department's teaching mission at both

the undergraduate and graduate level. (3) Up to two publications that are in review, accepted, or published.

Applications should be submitted electronically to https://sjobs.brassring.com/1033/ASP/-TG/cim_jobdetail.asp?partnerid=25066&siteid=-5449&areq=55778br. As part of a cover letter, the applicant must also provide a list of names and e-mail addresses of three potential referees. Letters of recommendation should be submitted by the three referees to DISEASEECO-EVOSEARCH@LISTSERV.CC.EMORY.EDU by the application deadline.

The application deadline is October 26, 2015.

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 infectious disease research in the College of Arts and Sciences, the School of Medicine, the Rollins School of Public Health and the Centers for Disease Control and Prevention. Emory is located on a beautiful campus in the heart of the Atlanta Metropolitan Area, a vibrant, affordable, and culturally diverse city in the wooded foothills of the Appalachian Mountains.

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

Nicole Gerardo Emory University Associate Professor of Biology Director, Graduate Program in Population Biology, Ecology and Evolution

"ngerard@emory.edu" <ngerard@emory.edu>

EmoryU EvolutionInfectiousDisease

Tenure track position in Ecology and Evolution of Infectious Disease

The Department of Biology at Emory University seeks applications for a tenure-track Assistant Professor in ecology and evolution of infectious disease in Fall 2016. We will consider applicants with research programs in any aspect of the ecology and evolution of infectious disease, using approaches that include but are not limited to field experimentation, theoretical modeling, experi-

mental evolution, genomics and synthetic biology. We encourage applicants with strong mathematical and statistical modeling components to their work.

Applicants must hold a PhD or equivalent degree and 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/).

In addition to a CV with a complete publication list, applicants should submit the following:

- (1) A statement of their current and anticipated research and approach with a clear description of the questions that they are addressing. This statement should explicitly indicate the significance of their research to infectious disease ecology and evolution at large.
- (2) A statement related to teaching, with a description of how they will contribute to the Departments teaching mission at both the undergraduate and graduate level.
- (3) Up to two publications that are in review, accepted, or published.

Applications should be submitted electronically to: https://sjobs.brassring.com/1033/ASP/TG/-cim_jobdetail.asp?partnerid=3D3D25066&siteid=-5449&areq=55778 As part of a cover letter, the applicant must also provide a list of names and e-mail addresses of three potential referees. Letters of recommendation should be submitted by the three referees to DISEASECOEVOSEARCH@LIST.SERV.CC.EMORY.EDU by the application deadline.

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

Jacobus (Jaap) de Roode Associate Professor of Biology Director of Graduate Studies of Population Biology, Ecology and Evolution Emory University Biology Department 1510 Clifton Road Atlanta GA 30322, USA office phone: +1 404 727 2340 <2B1%20404%20727%202340> email: jderood@emory.edu website: <http://www.biology.emory.edu/research/deRoode/> jaacobus.de.roode@gmail.com

George Washington U Lab Manager Drosophila Evol

Lab Manager working on Drosophila sperm and female reproductive tract evolution, genetics, and development

Funding for one year of a Lab Manager position is available in the lab of Mollie Manier (<http://manierlab.com>), an assistant professor in the Department of Biological Sciences at the George Washington University (<http://departments.columbian.gwu.edu/biology/>) in Washington, D.C. My research program investigates the evolutionary, molecular, and developmental mechanisms of rapid diversification of reproductive traits. The goals of the current projects are (1) to understand the molecular genetics, molecular evolution, and developmental biology behind the extraordinarily long sperm of Drosophila (up to 5.8 cm in length), (2) to perform a parallel study investigating development of female sperm storage organs, and (3) to collect preliminary data on the role of the gut microbiota on cognition in Drosophila.

The position will provide technical support for research on all projects, perform lab management duties including ordering materials and supplies, and overseeing undergraduate and graduate student researchers.

The successful candidate must be familiar with or able to be trained in all methods employed in the lab, including Drosophila culture and handling, DNA and RNA extraction and amplification, qPCR, sequencing, Drosophila reproductive tract dissection, Drosophila RNAi knock-down, RNA in situ hybridization, protein immunohistochemical localization, tissue culture, fluorescence microscopy, and data management and analysis. The position requires neatness, attention to detail, good organizational skills, independence, and the ability to work well with and manage others. Evening and weekend hours will sometimes be necessary for time-sensitive collecting and experiments.

The minimum degree required for this position is BA/BS in biology or related field, with specialization in developmental biology, molecular and cell biology, evo-devo or evolutionary biology prioritized. Previous research experience and/or a graduate degree will also be prioritized. The position is available now, with funding available for one year. Starting salary is commensurate upon qualifications and experience.

To apply, e-mail Dr. Mollie Manier at manier@gwu.edu with (1) your CV, (2) a statement of interest including a summary of your research experience and goals for the next five years, (3) unofficial transcripts from your undergraduate and graduate institution (if applicable), and (3) contact information for 3 references. Position will remain open until filled.

Dr. Mollie K. Manier Assistant Professor The George Washington University Dept. of Biological Sciences SEH 6680 800 22nd St. NW Washington, D.C. 20052 USA (202) 994-0126 <http://manierlab.com> Mollie Manier <manier@gwu.edu>

GeorgiaCollegeStateU
AvianEvolution

We have an open position for an ornithologist at Georgia College that may be of interest to the EvolDir community.

ASSISTANT PROFESSOR OF BIOLOGY (Ornithology)

The Department of Biological and Environmental Sciences at Georgia College & State University invites applications for a tenure track position in Biology. We seek a highly trained individual who is committed to liberal arts education, can demonstrate excellence in teaching and research, and possesses the ability to work with a culturally diverse student population. A primary teaching responsibility will be Ornithology, with other teaching opportunities including introductory courses in the biological sciences, core curriculum and other upper level courses in the candidate's area of expertise. The candidate will have the opportunity to develop an independent research program.

There are two undergraduate majors within the Department of Biological and Environmental Sciences. We currently have 23 full time faculty in the department with about 470 undergraduate biology majors, 110 environmental science majors, and an M.S. program in

biology with approximately 35 students pursuing thesis and non-thesis degrees. For more information about the department visit us at <http://www.gcsu.edu/biology/>
Knowledge/Skills and Abilities:

Ability to teach Ornithology, Field Ornithology, Comparative Vertebrate Anatomy, introductory biology and upper division courses in area of specialization.

Ability to contribute to the core curriculum.

Ability to engage undergraduates and graduates in ornithology-related research.

Ability to work collegially and effectively with university students, faculty, and staff as well as the surrounding community.

Demonstrable ability to work collegially and effectively with individuals of diverse backgrounds.

Minimum Qualifications:

Ph.D. preferred (ABD with a completion by August 1, 2016 considered) in Biological Sciences or related field.

Research experience (demonstrated by publication record).

Undergraduate teaching experience.

Must meet SACSCOC accreditation requirements stated in C.S. 3.7.1 (www.sacscoc.org (faculty credentials))

Preferred Qualifications:

We are particularly interested in candidates who can utilize and enhance the existing ornithology research collections of study skins and skeletons for their teaching and research.

At least two years of experience teaching undergraduate courses preferred.

The unit is especially interested in candidates who can work collegially and effectively with individuals of diverse backgrounds and whose experience, research, teaching, and service can contribute to the diversity and excellence of the academic community.

Interested candidates should apply online at <https://www.gcsujobs.com/postings/2426> and include a letter of application, vitae, 1-page teaching philosophy, 1-page research statement, unofficial transcripts and 3 confidential letters of recommendation. Review of applications will begin November 15, 2015, and continue until the position is filled. Position start date is August 1, 2016.

The College: Encompassing the arts and humanities, social and behavioral sciences, sciences and mathematics, fine and performing arts, and select professional programs, the College of Arts and Sciences is the largest

of the university's four colleges. Approximately 185 full-time faculty in twelve departments teach approximately 3,000 students with arts and science majors. Most of the core curriculum and many service courses to the other colleges are taught by Arts and Sciences faculty.

Arts and Sciences Mission: The fundamental mission of the College of Arts and Sciences is to promote critical reflection and advancement of knowledge by teaching the core curriculum and offering rigorous and comprehensive major programs that challenge students to address the analytical, historical, cultural, and philosophical foundations of their discipline; and to graduate students with the ability to think critically and creatively; act with ethical awareness; communicate effectively in a free and open exchange of ideas; and prepared to contribute productively, responsibly, and ethically to our state, our nation and the global community. Diversifying our curriculum geographically, temporally, and thematically is a high priority, so evidence of comparative and cross-cultural scholarship is particularly welcome. Evidence of methodological innovation and creative teaching strategies is highly desirable. In keeping with the University's mission we especially encourage applicants who will further our goal of cultural, ethnic, racial, and gender diversity.

Georgia College is known for combining the educational experiences typical of esteemed private liberal arts colleges with the affordability of public universities. The university's main campus is



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GeorgiaSouthernU SystemsBiology

GEORGIA SOUTHERN UNIVERSITY University System of Georgia Systems Biologist, Assistant Professor Search #67329 College of Science and Mathematics, Department of Biology Georgia Southern University invites nominations and applications for an Assistant Professor of Systems Biology in the Department of Biology in the College of Science and Mathematics. Georgia Southern University, classified as a doctoral/research institution by the Carnegie Foundation for the Advancement of Teaching, is a member of the University System

of Georgia. As the largest and most comprehensive research institution in southeast Georgia, the University is a residential campus of more than 20,500 students representing 48 states and 89 nations.

Accredited by the Southern Association of Colleges and Schools Commission on Colleges, Georgia Southern offers a comprehensive array of baccalaureate degrees and selected master's and doctoral programs through eight colleges: Business Administration, Education, Engineering and Information Technology, Health and Human Sciences, Liberal Arts and Social Sciences, Public Health, Science and Mathematics, and Graduate Studies. With an emphasis on academic distinction, excellent teaching, research, and student success, Georgia Southern offers both undergraduate and graduate students an attractive campus environment that encourages learning, discovery, and personal growth. Founded in 1906, Georgia Southern lays claim to being the most beautiful campus in the state. Comprising more than 900 acres, the University grounds are an arboretum-like treasure featuring gently rolling lawns, scenic ponds, and soaring pines. Located in Statesboro, a safe Main Street community of approximately 30,000 residents not far from Savannah and Hilton Head Island, Georgia Southern provides the benefits of a major university with the feeling of a smaller college. Within this setting, the Department of Biology consists of a diverse faculty of teacher-scholars involved in a wide spectrum of activities from molecular to ecological studies on the coastal plain and throughout the world. The Department provides undergraduate and graduate students with a challenging education that is research-based and technology-oriented. We provide a foundation for life-long learning and appreciation of biological processes and biological diversity through teaching, research and outreach. The Department of Biology is housed in three buildings, including a new 158,000-square-foot Biological Sciences Building.

Position Description. Reporting to the Chair, the position of Assistant Professor of Systems Biology requires research, teaching, and service responsibilities as well as a terminal degree in the Biological Sciences or other relevant field. The successful candidate will develop an externally funded research program on systems biology, and teach both undergraduate and graduate courses. Candidates should have a research interest in understanding biological networks. Research areas may include but are not limited to: functional/evolutionary genomics and proteomics/transcriptomics, metabolomic analysis, and bioinformatics. The position is a 9-month, tenure-track appointment, and the salary is competitive and commensurate with qualifications and experience.

Required Qualifications: - Doctorate by 31 December 2015 in the Biological Sciences or other relevant field -

Demonstrated excellence in research in systems biology
 - Potential to attract extramural funding - Expertise to teach a course in the area of systems biology - Must be authorized to work in the United States for the duration of employment without assistance from the institution

Preferred Qualifications: - Post-doctoral experience

Deadline for receipt of applications is October 26, 2015. The preferred position starting date is August 1, 2016. A complete application consists of a letter addressing the qualifications cited above, curriculum vitae, statements of research interests and teaching interests/philosophy, and at least two letters of reference.

Applications must be sent electronically as a single PDF attachment (include applicant name in file name). Letters of recommendation in PDF format may be sent separately via email. Other documentation may be requested. Only complete, electronically submitted applications will be considered. Finalists will be required to submit to a background investigation. Applications and nominations should be sent to:

Dr. Quentin Fang, Search Chair, Search #67329 Electronic mail: qfang@georgiasouthern.edu Telephone: 912-478-5657

More information about the institution is available through <http://www.georgiasouthern.edu> or <http://www.bio.georgiasouthern.edu>.

Georgia Southern University seeks to recruit individuals who are committed to working in diverse academic and professional communities and who are committed to excellence in teaching, scholarship, and

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

GeorgiaTech EvolutionaryEcol

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

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

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

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

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

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

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

Harvard 2 Paleobiology

Tenure-Track Faculty Position

The Departments of Organismic & Evolutionary Biology (OEB) and Earth & Planetary Sciences (EPS) in partnership with the Museum of Comparative Zoology (MCZ) invite applications for two tenure-track faculty positions spanning the broadly defined fields of paleobiology, geobiology, and Earth history. We seek to attract two outstanding individuals to establish innovative research programs and teach both undergraduate

and graduate students. We are especially interested in individuals whose work spans the intellectual interests of the OEB and EPS departments, possibly including although not limited to—paleontology and/or the interactions between life, evolution, (bio)geochemistry, and the environment over geologic time, either on land or in the ocean. The positions may be associated with curatorial appointments in the MCZ with oversight responsibilities of the museum's invertebrate paleontology collections.

Basic Qualifications: Doctorate or terminal degree in geobiology, paleontology, or related disciplines required by the time the appointment begins.

Additional Qualifications: Demonstrated excellence in teaching is desired.

Please submit applications online at: <http://academicpositions.harvard.edu/postings/6418> Required materials include a cover letter, curriculum vita; a statement of research and teaching interests; four representative publications; and the names, institutional affiliations, and email addresses of three references. Review of applications will begin November 9, 2015, and conclude when the positions are filled.

Further information about EPS and OEB are available at <http://www.eps.harvard.edu/> and <http://www.oeb.harvard.edu/>.

Address questions about the position to Professor Ann Pearson (pearson@eps.harvard.edu) or Professor James Hanken (hanken@oeb.harvard.edu) and about the application process to Chenoweth Moffatt (moffatt@eps.harvard.edu).

Harvard is an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability status, protected veteran status, or any other characteristic protected by law.

Lisa McCaig

Faculty Coordinator Department of Earth and Planetary Sciences Harvard University 20 Oxford Street, Rm. 110B Cambridge, MA 02138

Phone: 617.496.7504 Fax: 617.496.6958

“McCaig, Lisa” <lmccaig@fas.harvard.edu>

LouisianaStateU CollectionsManager

Research Associate 3 (Collections Manager) College of Science Louisiana State University

Responsibilities: Candidate must have a very strong background and interest in curating amphibian, reptile and fish natural history collections. The candidate should also be capable of managing a diverse collection and leading a team of curatorial assistants and student workers. This individual will also be responsible for promoting the mission of the LSUMNS and assisting the Curators with all aspects of the daily operation of Herpetology and Ichthyology Divisions.

Job duties include:

80% Assist Curators in integrating new and orphaned collections into the LSU collection. Processing of Inter-museum loans and loan tracking, care and conservation of specimens in the collection (including fumigation, storage, security and other related task). Has direct responsibility for overall operation of the collection. This includes training and supervision of graduate students and student workers.

15% Digitizing type specimens, georeferencing, maintenance of the computerized database. Obtain collecting permits for researchers who will conduct field expeditions. Daily collection upkeep and assist the Curators in coordinating staff training and continuing education opportunities.

5% May assist Curator in preparing proposals for collection-improvement grants. Collection manager will assist professional visitors to the collection and when requested by the curator, will provide tours of the collection for special visitors.

Required Qualifications: Bachelor's degree in zoology, biological sciences or related field and two years of experience working in biological research collections.

Preferred Qualifications: Demonstrated interest and expertise in the management of a diverse selection of vertebrate species; at least two years of supervisory experience of undergraduate students; experience working with Specify database software.

An offer of employment is contingent on a satisfactory pre-employment background check. Application deadline is October 8, 2015 or until a candidate is se-

lected. Apply online and view a more detailed ad at: www.lsusystemcareers.lsu.edu. Position #038943

LSU is committed to diversity and is an equal opportunity/equal access employer

Quick link at ad URL: <https://lsusystemcareers.lsu.edu/applicants/-Central?quickFind=59875> Richard Ward Staffing Partner Human Resource Management Louisiana State University 110 Thomas Boyd Hall, Baton Rouge, LA 70803 office 225-578-8286 | fax 225-578-6571 richardward@lsu.edu | lsu.edu | www.lsu.edu/hrm

Richard T Ward <richardward@lsu.edu>

Nature Communications editor evolution

Nature Communications is hiring a full time editor with a background in evolutionary biology:

<https://jobs.macmillan.com/-VacancyDetail.aspx?VacancyUID=3D3D00000004802>
Job Title: Life Science Editor Location: London Closing Date: 9/21/2015 Salary Range: Salary dependent on skills and experience

Nature Publishing Group Life Science Editor - Nature Communications Nature Publishing Group (NPG) is a division of Macmillan Publishers Ltd, dedicated to serving the academic, professional scientific and medical communities.

Nature Communications is an innovative multidisciplinary science journal, and it is the flagship, Nature-branded fully Open Access journal. The journal publishes high-quality research from the breadth of the natural sciences and has already developed a strong track record in these disciplines.

We now have exciting opportunities for biology editors to join our editorial team. The ideal candidate will have a PhD (or equivalent), and preferably postdoctoral experience, in an area of the biological sciences. Candidates with a background in the study of evolutionary biology, palaeontology, biotechnology, immunology or microbiology are particularly encouraged to apply. Editorial experience would be beneficial, but is not required.

Reporting to a Team Manager (biological sciences), the successful candidates will play an important role in determining the representation of their field in the jour-

nal and will work closely with the other editors on all aspects of the editorial process, including manuscript selection. This role will also entail significant liaison with the scientific community and other Nature research journal editors in UK, US and China.

This is a demanding and intellectually stimulating position. Broad scientific knowledge and training, excellent literary skills and a keen interest in the practice and communication of science are a prerequisite. The successful candidates must therefore have excellent communication and interpersonal skills. The salary and benefits will be competitive, reflecting the critical importance and responsibilities of this role.

The role can be located in our London or New York office.

All applicants must be able to demonstrate the right to live and work in the UK or US in order to be considered for these positions.

Applicants should include a CV, a covering letter explaining their interest in the post and a Research Highlights piece in the style of Nature Cell Biology (300 words) on a recent paper from a related discipline.

Closing date: 21st September 2015

For more information about the Macmillan group click here to visit our website. < <http://www.macmillan.com/> >

Vera Domingues, PhD Senior Editor, Nature Communications NPG, London

Vera.Domingues@nature.com

OkinawaInstSciTech EvolutionaryBiol

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

Sasha Mikheyev <alexander.mikheyev@oist.jp>

PurdueU 8 PlantEvolution

EIGHT ASSISTANT PROFESSOR TENURE-TRACK POSITIONS

The College of Agriculture at Purdue University, West Lafayette, Indiana, invites applications from outstanding basic scientists for eight academic year tenure-track assistant professor positions that will comprise a college-wide cluster hire in fundamental plant biology. Candidates utilizing modern methods to address important questions in plant biology including but not limited to genomics and molecular genetics, computational modeling, biosensor/imaging, synthetic biology and metabolism are all encouraged to apply. We are interested in individuals working on molecular, organismal or ecosystem levels, and in model systems, crops, or natural systems.

We envision that the majority of candidates will be considered for positions in the Department of Botany and Plant Pathology and the Department of Biochemistry. Positions are also available in the Department of Agronomy, the Department of Entomology, the Department of Forestry and Natural Resources, and the Department of Horticulture and Landscape Architecture for individuals conducting basic plant science research but with an interest in application of their research in more applied contexts.

Each successful candidate will be expected to develop an internationally recognized research program, interact with diverse faculty, staff and students across campus, and contribute to the further development of plant science as an area of excellence on the Purdue University campus. Each such candidate will also teach graduate and/or undergraduate courses, and function as an active member of the departmental and university faculty. Purdue University is a large and vibrant life science community. Our faculty spans disciplines that include biological sciences, physical and computational sciences, agriculture and engineering. Faculty also participate in interdisciplinary graduate programs with focus areas in plant biology, cancer biology, neuroscience, biophysics, gene regulation and bioinformatics.

This hiring initiative is part of the Plant Sciences Research and Education Pipeline, through which are being developed facilities for genome editing, high-throughput controlled environment imaging and field-scale phenotyping, and a plant commercialization incubator. Core facilities for genomics, bioinformatics, microscopy,

metabolomics, NMR, X-ray crystallography, flow cytometry and proteomics are available. Substantial resources for field-based research are also available near campus and throughout the state.

Purdue University's College of Agriculture is one of the world's leading colleges of agricultural, food, life, and natural-resource sciences and is ranked number 5 globally in the 2015 QS World University Rankings. The College is deeply committed to the three land-grant missions (teaching, research, and extension), to international activities and perspectives that span all missions, and to supporting a diverse and inclusive environment. Purdue is an ADVANCE institution www.purdue.edu/-dp/advance. The College has 11 academic departments and includes 330 faculty, 2,710 undergraduate students, and 685 graduate students. The College's strategic plan can be accessed at <https://www2.ag.purdue.edu/Pages/-strategicplan.aspx>. Applicants should have a Ph.D. in life, computational, or physical sciences, preferably with at least two years of post-doctoral experience or its equivalent, a strong publication record, the potential to develop a vigorous, extramurally funded research program, and a commitment to both hypothesis-driven research and teaching excellence. Applications should be submitted electronically to molecularag@purdue.edu and should include in a single pdf file a cover letter, curriculum vitae, two page summary of research interests, a one-page teaching statement, and the names and contact information for three references. Applicants may learn more about the departments involved in this search at <https://ag.purdue.edu/plantsciences/pages/-molecularag.aspx> and indicate in their application up to two departments of greatest interest. Screening of applications will begin October 15, 2015, and will continue until the positions are filled. A background check is required for employment in these positions.

Purdue University is an Equal Opportunity/Equal Access/Affirmative Action Employer fully committed to achieving a diverse workforce. All individuals, including minorities, women, individuals with disabilities, and protected veterans are encouraged to apply.

“Wetli, Ranae J” <rjwetli@purdue.edu>

RutgersU ComputationalGenetics

The Department of Genetics in the School of Arts and Sciences at Rutgers, The State University of New Jersey seeks an outstanding scientist to complement the

existing faculty in computational genetics, moving our program into exciting new areas and expanding our existing strengths. Tenure-track or tenured appointment will be made at the Assistant, Associate, or Full Professor level, with a preference for a junior appointment. Areas of interest include, but are not limited to, population or evolutionary genetics, bioinformatics, statistical genetics, computational genomics, and analysis of complex genetic diseases. Experienced faculty with appropriate experience will be considered for a leadership role within our Computational Genetics Group. Department of Genetics faculty may also join the Human Genetics Institute of New Jersey. Core resources and generous startup funds will be provided. Research space, including wet lab if needed, will be provided in the newly constructed Life Sciences Building.

The Department of Genetics is home to over 30 faculty members with diverse interests and numerous well-funded research programs, hosts one of the oldest undergraduate majors in Genetics in the country, and is part of a vibrant life sciences and computational community. Our computational group collaborates with other Department of Genetics faculty and Rutgers scientists within the Division of Life Sciences, the Departments of Computer Science and Statistics, the Waksman Institute, the Center for Advanced Biotechnology and Medicine, the Robert Wood Johnson Medical School, the Institute for Quantitative Biomedicine @ Rutgers, the Center for Discrete Mathematics and Theoretical Computer Science (DIMACS), the Center for Human Evolutionary Studies, and the Cancer Institute of New Jersey. A leading research university, Rutgers is a member of the AAU and the CIC and attracted over \$517M in research grant and contract funding in FY2014. The New Brunswick/Piscataway campus is located in suburban central New Jersey, close to New York City, Philadelphia, beaches, and countryside. For more information on the Department, our other ongoing searches, and Rutgers University see: <http://genetics.rutgers.edu/faculty/faculty-recruitment> . **QUALIFICATIONS**

Candidates must have a Ph.D. and/or M.D., demonstrated record of significant research, the potential to make substantial contributions as an independent investigator, and have a commitment to teaching undergraduate and graduate students.

APPLICATION INSTRUCTIONS

Applicants should submit a CV, a detailed statement of research interests, a teaching statement, and full contact information for three individuals willing to provide letters of reference. Applications should be submitted electronically at <http://apply.interfolio.com/30829> and inquiries made to Ms. Mary Carmona, car-

mona@dls.rutgers.edu. Review of applications will begin October 15, 2015 and continue until the position is filled.

Andrew Kern Assistant Professor of Genetics Rutgers University website: <http://kernlab.rutgers.edu> email: kern@biology.rutgers.edu

Kern@dls.rutgers.edu

SanDiegoStateU PlantEvolutionaryBiology

ASSISTANT PROFESSOR FACULTY POSITION IN PLANT EVOLUTIONARY BIOLOGY, DEPARTMENT OF BIOLOGY, SAN DIEGO STATE UNIVERSITY

We seek a creative and productive plant evolutionary biologist at the Assistant Professor level who uses modern and innovative methods to address fundamental questions in plant evolutionary biology. We are especially interested in candidates who are conducting research that explores the interface between organismal and genetic/genomic approaches and who work at the interface of evolution and ecology. Research expertise should involve, but is not limited to, questions regarding the process of adaptation, life history and/or mating system evolution, the evolution of interspecific interactions, conservation/population genetics, speciation, and the impact of climate change on plant evolutionary processes.

SDSU is a large, diverse, urban university and Hispanic-Serving Institution with a commitment to diversity, equity, and inclusive excellence. Our campus community is diverse in many ways, including race, religion, color, sex, age, disability, marital status, sexual orientation, gender identity and expression, national origin, pregnancy, medical condition, and covered veteran status. We strive to build and sustain a welcoming environment for all. SDSU is seeking applicants with demonstrated experience in and/or commitment to teaching and working effectively with individuals from diverse backgrounds and members of underrepresented groups. The College of Sciences is host to a large number of federally-funded minority training programs (described at <http://www.sci.sdsu.edu/casa/>).

The person holding this position is considered a "mandated reporter" under the California Child Abuse and Neglect Reporting Act and is required to comply with the requirements set forth in CSU Executive Order 1083

as a condition of employment.

A background check (including a criminal records check) must be completed satisfactorily before any candidate can be offered a position with the CSU. Failure to satisfactorily complete the background check may affect the application status of applicants or continued employment of current CSU employees who apply for the position.

QUALIFICATIONS

Candidates should have a Ph.D. in Plant Evolutionary Biology or a related field, relevant post-doctoral experience, and a strong record of research accomplishments and funding. The successful candidate should also display a commitment to undergraduate and graduate teaching. Teaching responsibilities will include participation in undergraduate biology courses, and additional graduate courses in the candidate's areas of expertise. The successful candidate will participate in the MS and Ph.D. programs in Evolutionary Biology and may also participate in the department's MS and Ph.D. programs in Cell and Molecular Biology, and Ecology. Preference will be given to candidates that can and wish to train graduate students in more than one graduate program.

APPLICATION INSTRUCTIONS

Apply via Interfolio (<http://apply.interfolio.com/31416>). Review of applications will begin October 15, 2015, and will continue until the position is filled. Incomplete applications are not guaranteed full consideration.

"trenner@mail.sdsu.edu" <trenner@mail.sdsu.edu>

SantaBarbaraBotanicGarden RarePlants

<http://www.sbbg.org/get-involved/employment/-current-openings> SANTA BARBARA BOTANIC GARDEN

POSITION DESCRIPTION

Rare Plant Biologist

Job Description:

The Rare Plant Biologist is responsible for running a comprehensive rare plant conservation research program at the Santa Barbara Botanic Garden, which currently includes research, monitoring, curation of conservation seed collections, and species recovery, and may expand to include other approaches to rare plant conservation

such as species distribution modeling under climate change scenarios or rare plant demography, depending upon the expertise of the Rare Plant Biologist. The position also entails fundraising, education, and outreach activities to support and expand our conservation efforts. This is a full-time (40 hours per week), exempt position that reports to the Director of Conservation and Research.

Applicants should submit a statement of interest, curriculum vitae, two to three representative publications, and contact information (names, email addresses, and phone numbers) for three references to: Denise Knapp, Director of Conservation and Research, at dknapp@sbbg.org. Review of applications will begin immediately and continue until a suitable candidate is chosen. The position will likely begin in March of 2016.

Duties and Responsibilities:

- Design and conduct regional rare plant research (sometimes collaboratively) on topics that may include basic biology, threats, mutualisms, and restoration actions;
- Conduct long-term monitoring of population sizes, distributions, and demographics. Ideally, produce stage-based population models for risk assessment and restoration planning;
- Obtain and propagate plant materials (seeds, cuttings, or whole plants) as needed for restoration activities. Ideally, design, implement and analyze experiments to develop optimum methods for propagation and seed storage;
- Restore and reintroduce plants in the wild;
- Gather and curate conservation seed collections to prevent extinction and provide material for restoration efforts, including periodic viability testing;
- Maintain and update the conservation seed collection database;
- Ideally, perform niche modeling for planning restoration actions and forecasting future scenarios under climate change;
- Ensure completion of data analysis, evaluation of projects, and dissemination of results. Write progress and final reports for funders. Disseminate research results to a broad audience through the above venues as well as lectures, and presentations at meetings;
- Publish 1-3 papers in peer-reviewed journals per year;
- Maintain current federal and state research and collection permits, and pursue landowner permissions;
- Represent the Garden's conservation program in regional and state meetings, and build a strong re-

relationship with conservation partners, including the California Native Plant Society's Rare Plant Program Committee;

- Lead volunteers and staff to aid in performing the above tasks as needed;
- Fundraise for the conservation program via grant and contract proposals, donor relations, and alternative funding sources such as crowdfunding;
- Work with the Garden's Horticulture department to develop and maintain a Conservation Garden;
- Offer educational opportunities that may include lectures, workshops, tours, and field trips, and potentially a class at the University of California, Santa Barbara;
- Work with the Garden's Communications department to develop conservation outreach materials, including periodic newsletter articles, brochures, web updates, videos, press releases, and social media;
- Perform other duties as assigned.

Minimum Qualifications:

- Academic background in the biological sciences, conservation biology, evolutionary biology, botany, or closely related area (Ph.D. preferred);
- Broad botanical knowledge, including plant identification. Experience with the California flora preferred;
- Experience with and a passion for rare and endangered plant conservation;
- Demonstrated proficiency in statistical analysis, including comparisons and relationships;
- Experience with ecological niche modeling, climate change research, plant propagation, and GIS desired;
- A record of scholarly publication;
- Support of the Garden's mission and goals and ability to provide vision and inspiration to others in support of this mission;
- Ability to conduct field work in a remote setting with rugged terrain under a variety of environmental conditions;
- Ability to work under pressure and meet deadlines;
- Strong organizational skills; must be detail oriented;
- Excellent verbal and written communication and problem solving skills desired;
- Experience and comfort giving public presentations and

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

SimonFraserU Canada PopulationModeling

The Department of Biological Sciences at Simon Fraser University invites applications for a tenure-track (Assistant Professor) position in Terrestrial Ecology. We are most interested in candidates whose research is at the population level with strong quantitative or modelling skills. Expertise can be in any group of organisms. For more information and a link to an application page, please visit: <http://at.sfu.ca/MPGTEu> Arne Mooers <amooers@sfu.ca>

SonomaStateU IntegrativePlantEvolution

Integrative Plant Biologist

The Department of Biology at Sonoma State University seeks to hire a highly motivated scientist for a faculty position in Integrative Plant Biology. This tenure-track position will be filled at the Assistant Professor level and starts Fall semester 2016. The candidate must have a proven track record of publication in peer-reviewed journals and will be expected to develop and maintain an externally funded research program. We are especially interested in candidates whose research program uses a range of techniques and approaches to examine plant-environment interactions. We seek a dynamic teacher-scholar with a strong commitment to undergraduate and graduate education and an ability to attract and mentor students in our graduate program. Teaching responsibilities include plant physiology and participation in a team-taught core course in ecology/biological diversity. The candidate will also have the opportunity to offer other plant-focused courses at the undergraduate and graduate level.

See the full job announcement on the Department of Biology website: <http://www.sonoma.edu/biology>. The deadline to apply for the position is October 14. To

apply, candidates must electronically submit the following documents: letter of application; current CV ; statement of research interests and goals; statement of teaching philosophy and goals; three representative peer-reviewed publications; and the names, titles, and contact information for three references. If available, also include a copy of recent teaching evaluations or recent course syllabi.

Refer to #104021 on all correspondence and inquiries regarding this position. SSU is an EEO employer.

Hall Cushman <cushman@sonoma.edu>

StockholmU Sweden 2 PopulationGenetics

StockholmU_Sweden.2.PopulationGenetics

Tenure-Track Assistant Professor Faculty Position Department of Zoology, Stockholm University, Sweden.

International researchers in the area of population genetics, broadly defined, are encouraged to apply to our tenure-track position at the level of Assistant Professor.

The advertised position will be located in the Division of Population Genetics, which has a theoretical and empirical focus on conservation genetics issues with recent research also focused on developing and using genomic tools in non-model species to uncover the genetic basis of local adaptation and life history evolution. We welcome applications from candidates who would complement the existing strengths of our Zoology department and would be interested in collaborations as well. Start up funding is available, as we wish to promote excellence in research.

The Department of Zoology has a long history of basic and applied research from the perspectives of its five divisions: Ecology, Ethology, Population Genetics, Functional Morphology, and Systematics and Evolution. The Department holds 16 permanent Lecturer/Professor positions and c. 100 staff including c. 40 PhD students and offers an international and stimulating work environment.

The position is four years full-time with a strong research focus (some teaching possible also) and the possibility of promotion to Associate Professor. The working language of the Department is English, with numerous opportunities to teach in English. The success rate of applications to national funding bodies in our field is

better than most countries (~15%), with various opportunities for applications throughout the year.

Stockholm University is situated in the beautiful surroundings of a National City Park where you can stroll in ancient forests and swim off rocks or beaches just within short walks from campus. It is a modern university with a long history characterized by an open atmosphere and a multicultural environment. Stockholm University is one of the world's top 100 higher education institutes. Stockholm itself is one of the most beautiful cities in Europe with a quality of life consistently ranked among the highest in the world. English is a natural second language for the vast majority of locals.

Do not hesitate to contact us if you have questions about startup funding, language, or integration issues: Prof. Linda Laikre linda.laikre@popgen.su.se Associate Prof. Christopher Wheat chris.wheat@zoologi.su.se.

Closing date for application: October 5, 2015

Read more and apply here: <http://www.su.se/english/about/vacancies/vacancies-new-list?rmpage=-job&rmjob=375&rmlang=UK> Department of Zoology: www.zoologi.su.se/en/index.php Stockholm University: <http://www.su.se/english/> We look forward to your application!

Christopher Wheat <chris.wheat@zoologi.su.se>

TexasAMU EvolutionVertebrateBehavior

Texas A&M University Department of Wildlife and Fisheries Sciences *Faculty Position in Vertebrate Animal Behavior*

Job Announcement: **The Department of Wildlife and Fisheries Sciences at Texas A&M University seeks to fill a tenure-track position at the rank of *Assistant Professor *with a 10-month annual appointment. General duties and responsibilities will include developing an active research program on aspects of animal behavior that relate to wildlife ecology and management, evolutionary patterns and/or other areas of comparative biology. Research may be directed at any group of vertebrate animals; however, research that would be applicable, but by no means restricted, to native or exotic species that reside in Texas would be of particular interest. Primary teaching responsibilities will include an undergraduate course in ethology in the department and a graduate course in the candidate's research specialty.

***Qualifications: * Candidates for this position must have earned a Ph.D. in one of the biological sciences, and possess a record of scholarship and grantsmanship commensurate with appointment as an Assistant Professor. Post-doctoral experience is expected, as is a clearly defined research program. Candidates must demonstrate a capacity for teaching as evidenced by past teaching experience.

*About the Department: * As an administrative unit of the College of Agriculture and Life Sciences, Texas AgriLife Research, and Texas AgriLife Extension within The Texas A&M University System, the Department of Wildlife and Fisheries Sciences has a diverse and dynamic mission with over 30 faculty and staff members engaged in teaching, research, and extension at several locations throughout the state, nation, and world.

/Academic programs./ The Department offers undergraduate and graduate degrees that uniquely equip graduates for leadership, education, research, and extension roles across a breadth of fields related to ecology, evolution, natural resources management, and conservation biology. The Department currently enrolls approximately 400 undergraduates who study in three primary options (Aquatic Ecology and Management, Wildlife Ecology and Management, and Vertebrate Zoology). Approximately 150 graduate students are enrolled in M.S. or Ph.D. programs, and two non-thesis professional degree programs (Master of Natural Resource Development and Master of Wildlife Science).

/Research./ The Department's faculty is dedicated to the discovery and dissemination of knowledge in conservation of biodiversity, natural resource management, and the sustainable use of natural resources at scales ranging from genes to landscapes. The Department of Wildlife and Fisheries Sciences discovers and communicates knowledge relevant to the conservation and management of wildlife and fishery resources and the ecosystems that sustain them through integrated academic instruction, research, and extension programs. The Department conducts research in four general areas: Aquatic Ecology and Fisheries Science; Conservation Biology; Ecology, Evolutionary Biology and Systematics; and Wildlife Ecology, Conservation and Management. Research facilities and laboratories are located primarily on the main campus of Texas A&M University in College Station, Texas, but also include numerous other facilities across the state.

/Extension/. The Department's extension wildlife and fisheries faculty help fulfill the mission of a land grant institution by providing outreach and translation of research findings into forms relevant for agricultural producers, landowners, land managers, and the general

public in the state of Texas. Educational activities are targeted at both youth and adults, and often address emerging issues and needs facing the public. These faculty are based both on-campus, and at Texas A&M AgriLife Research and Extension Centers located across the state, allowing for productive collaboration with research by facilitating field study locations (including those owned by TAMU Research and Extension Centers), as well as private lands access (Texas is 97% privately-owned, and access is essential to a successful research program), and providing expertise in public outreach from research activities.

/Biodiversity Research and Teaching Collections (BRTC)/. The collections within the BRTC serve as historical evidence of the distribution of wildlife in Texas, and provide valuable ecological and life history information for an array of vertebrate species. The collections serve as the repository for more than one million specimens with ancillary preparations, genetic samples, and associated data. Specimens housed at the BRTC are used in the research of Texas A&M faculty, graduate students, and scientists worldwide, as well as for extensive undergraduate teaching of natural history, conservation and wildlife management courses.

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TexasAMU WetlandsAvianConservation

Texas A&M University

Department of Wildlife and Fisheries Sciences

Faculty Position in Wetlands Avian Ecology

Job Announcement:

The Department of Wildlife and Fisheries Sciences, one of the largest in the nation, seeks to fill the following position: Assistant Professor of Wetlands Avian Ecology in Wildlife and Fisheries Sciences. The position is tenure-track with a 10-month annual appointment. Areas of research may include behavior, evolutionary patterns of adaptation and/or other areas of evolutionary or comparative biology, wildlife management, etc. Research may be directed at any avian-wetlands system;

however research focused on waterfowl would be of particular interest. Primary teaching responsibilities will include an undergraduate course in the department and a graduate course in the candidate's research specialty.

Qualifications: A Ph.D. in Wildlife or related biological science field and a record of scholarship and grantsmanship commensurate with appointment as Assistant Professor is required. Post-doctoral experience is expected, as is a clearly defined research program. Candidates should demonstrate a capacity for teaching as evidenced by previous development and presentation of course materials. The successful candidate will teach annually an undergraduate course in the department and a graduate course in their specialty.

About the Department: As an administrative unit of the College of Agriculture and Life Sciences, Texas AgriLife Research, and Texas AgriLife Extension within The Texas A&M University System, the Department of Wildlife and Fisheries Sciences has a diverse and dynamic mission with over 30 faculty and staff members engaged in teaching, research, and extension at several locations throughout the state, nation, and world.

Academic programs. The Department offers undergraduate and graduate degrees that uniquely equip graduates for leadership, education, research, and extension roles across a breadth of fields related to ecology, evolution, natural resources management, and conservation biology. The Department, one of the largest in the nation, currently enrolls approximately 400 undergraduates who study in three primary options (Aquatic Ecology and Management, Wildlife Ecology and Management, and Vertebrate Zoology). Approximately 150 graduate students are enrolled in M.S. or Ph.D. programs, and three non-thesis professional degree programs (Master of Fisheries Science, Master of Natural Resource Development, and Master of Wildlife Science). Research. The Department's faculty is dedicated to the discovery and dissemination of knowledge in conservation of biodiversity, natural resource management, and the sustainable use of natural resources at scales ranging from genes to landscapes. The Department of Wildlife and Fisheries Sciences discovers and communicates knowledge relevant to the conservation and management of wildlife and fishery resources and the ecosystems that sustain them through integrated academic instruction, research, and extension programs. The Department conducts research in four general areas: Aquatic Ecology and Fisheries Science; Conservation Biology; Ecology, Evolutionary Biology and Systematics; and Wildlife Ecology, Conservation and Management. Research facilities and laboratories are located primarily on the main campus of Texas A&M University in College Station, Texas, but also include numerous other facilities across the state.

Biodiversity Research and Teaching Collections (BRTC). The collections within the BRTC serve as historical evidence of the distribution of wildlife in Texas, and provide valuable ecological and life history information for an array of vertebrate species. The collections serve as the repository for more than one million specimens with ancillary preparations, genetic samples, and associated data. Collections at BRTC are used in the research of Texas A&M faculty, graduate students, and scientists worldwide, as well as for extensive undergraduate teaching of natural history, conservation and wildlife management courses.

For more information about the Department of Wildlife and Fisheries Sciences at Texas A&M University, please visit <http://wfsc.tamu.edu/> About the University: Texas A&M University, the Land Grant institution in the state, is a Tier I research university committed to Academic Excellence. Texas A&M University is a member of the prestigious Association of American Universities. Enrollment at TAMU is 58,577 students; the College of Agriculture and Life Sciences includes 14 departments and >325 faculty. Many opportunities exist for interdisciplinary collaborations among departments and programs including Ecology and Evolutionary Biology (eeb.tamu.edu), Genetics (gene.tamu.edu), Whole Systems Genomics Initiative (genomics.tamu.edu), and Institute for Renewable Natural Resources (irn.r.tamu.edu). About the Community:

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UAlabama PlantSystematics

THE UNIVERSITY OF ALABAMA

Plant Systematist

The Department of Biological Sciences at The University of Alabama invites applications for a tenure-track faculty position at the rank of Assistant Professor in Plant Systematics to begin August 2016. All taxonomic groups of vascular plants will be considered. Applicants whose research integrates field and museum-based studies with modern genomic approaches to address fundamental questions in taxonomy, systematics, biogeography, and evolution of vascular plants are encouraged to apply.

The successful applicant will be expected to establish an active independent research program, attract extramural funding, and must be committed to excellence in teaching and mentoring undergraduate and graduate students. Ability to teach upper level courses in plant systematics, dendrology or field botany is desired and one or more graduate courses in the candidates area of expertise. The successful applicant is expected to curate the UNA Herbarium maintained by the Department of Biological Sciences and must provide evidence of curatorial experience and/or other relevant abilities. The Herbarium at the University of Alabama contains significant holdings of vascular plants from the USA and the neotropics, and particularly from SE USA freshwater habitats. Individuals interested in diversifying this actively growing collection are encouraged to apply. The successful candidate also would serve as the Departments liaison with the University of Alabama Arboretum. Candidates must have a Ph.D. in the Biological Sciences or a related field and postdoctoral (or equivalent job) experience.

A complete application includes (1) an application letter with a list of at least four references (including contact information); (2) CV; (3) statement of research interests and goals; (4) statement of teaching interests and philosophy; and (5) statement of curatorial experience(s) and philosophy.

Letters of reference will be requested by the search committee as appropriate. To apply, go to <https://facultyjobs.ua.edu>, complete the online application (Job #0809743) and upload all requested documents. Questions about the position may be addressed to Dr. Juan Lopez-Bautista, jlopez@ua.edu, (205) 348-1791. Consideration of applications will begin no later than October 28, 2015 and will continue until the position is filled. For more information about the department, visit our website at <http://bsc.ua.edu>. Applications from women and members of traditionally under-represented groups in Biology are especially encouraged. The University of Alabama is an Equal Opportunity/Equal Access Employer and actively seeks diversity among its employees.

Juan M. Lopez-Bautista Professor and College of Arts and Sciences Leadership Board Fellow The University of Alabama, Department of Biological Sciences 500 Hackberry Lane, Mary Harmon Bryant Hall #309 Tuscaloosa, AL 35487-0345 <http://www.phycolab.ua.edu> Ph Office (205) 348-1791 Lab (205) 348-7383 Students (205)-348-5828 Postdocs (205)-348-3582

“Lopez-Bautista, Juan” <jlopez@ua.edu>

UAlbany SUNY EvolutionDiseases

Tenure-track faculty position in Ecology and Evolution of Infectious Diseases at the University at Albany, SUNY

The Department of Biological Sciences (<http://www.albany.edu/biology>), University at Albany, invites applications for a tenure-track position at the Assistant Professor level. The Department seeks a candidate whose research will advance conceptual understanding of ecological and evolutionary aspects of infectious diseases. Possible research themes may include, but are not limited to: pathogen transmission and spread, host-pathogen interactions, vector biology or pathogen variation and evolution. Applicants should have wide interests in disease biology. The successful candidate will contribute to the Department's graduate program in Ecology and Evolutionary Biology (EEB) and will be expected to teach at the undergraduate and graduate levels in courses appropriate to their expertise. Local opportunities for collaboration include faculty in the Life Sciences (<http://www.albany.edu/lifesciences>), the RNA Institute (<http://www.albany.edu/rna>), and the School of Public Health (<http://www.albany.edu/sph>), as well as the New York State Department of Health (<http://www.wadsworth.org>).

Initial salary and start-up funds are competitive.

Applicants must have a Ph.D. from a university accredited by the U.S. Department of Education or an internationally recognized accrediting organization, at least three years of post-doctoral experience, and a strong publication record.

Professional Rank and Salary Range: Assistant Professor, salary competitive and commensurate with qualifications.

Start Date: September 1, 2016

The Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act, or Clery Act, mandates that all Title IV institutions, without exception, prepare, publish and distribute an Annual Security Report. This report consists of two basic parts: disclosure of the University's crime statistics for the past three years; and disclosures regarding the University's current campus security policies. The University at Albany's Annual Security Report is available in portable document format [PDF] by clicking this link <http://police.albany.edu/ASR.shtml> THE UNIVERSITY AT

ALBANY IS AN EO/AA/IRCA/ADA EMPLOYER

Please apply online via <http://albany.interviewexchange.com/candapply.jsp?JOBID=-3D53990> Ing-Nang Wang

Associate Professor Department of Biological Sciences
University at Albany - SUNY Life Science Research
Building Rm. 2077

“iwang@albany.edu” <iwang@albany.edu>

UArizona 5 Genomics

Ecosystem Genomics \hat{A} V Cluster Hire University of Arizona

We are hiring five new faculty members at all appointment ranks. An extremely generous start-up and salary package has been already approved for all positions. We will consider self-nominated clusters. Exact research and teaching foci are open for consideration; however, we have identified the following types of positions as ideal:

1. Genomics of adaptation: genome-environment interactions, especially targeting individual organisms, and extending the classical study of adaptation to multiple dimensions of ecosystem structure/function.
2. Molecular ecology of soil microbes: biogeochemical cycles, reclamation/re-vegetation efforts, and/or discovery regarding the evolution, metagenomics, and assembly of microbial communities.
3. Plant evolutionary or ecological genomics: use of structural, functional, comparative or translational genomics to study the impact of plant genomic diversity on the structure/function of entire ecosystems.
4. Agroecosystem genomics: developing new approaches to use the genomic composition of entire agroecosystems to enhance crop yield while reducing environmental impact.
5. Global, earth system genomics: patterns of genome expression and trait realization in scenarios of future climate change and approaches for including trait spectra in earth system models.

The University of Arizona strongly encourages applications from individuals with varied experiences, perspectives, and backgrounds. Inquiries: Russell Monson (russmonson@email.arizona.edu).

sanderm00@gmail.com

UBath Bioinformatics PlantPathogenInteractions

As the first part of a multi-step hiring plan we are seeking outstanding individuals to join our new Milner Centre for Evolution at The University of Bath. The Milner Centre, led by Professor Laurence Hurst <<http://people.bath.ac.uk/bssldh/LaurenceDHurst/-Home.html>> FRS is the first dedicated centre for research and public engagement for evolutionary science in the UK (<http://www.bath.ac.uk/projects/the-milner-centre-for-evolution/>). Three positions are available:

1. Director of Bioinformatics:

This Reader-level appointment is core to the pure and applied evolution themes of the Milner Centre and is intended to enhance our standing in evolutionary genomics. Aside from an independent research program, the successful candidate will be responsible for the design and maintenance of a bioinformatics cluster and provide advice on pipe development and optimal technologies/packages. In addition, they will play a central role in establishing and managing a Masters Program in Bioinformatics; this initiative will build on the recent establishment of the Tarr computational suite. Applicants with experience of any branch of bioinformatics are encouraged to apply:

<https://www.bath.ac.uk/jobs/Vacancy.aspx?ref=-3DFY3456> 2. Lecturer (Assistant Professor) in plant-pathogen interactions and evolution

This post will maintain our current level of research and teaching activity in the critically important fields of plant disease management and food security. Although the post is formally independent of our new Milner Centre for Evolution, key areas of synergy are envisaged. Hence we will favour applicants researching the evolution of plant host-pathogen interactions, particularly where relevant to agriculture. The appointee will help deliver plant pathology and plant biotechnology teaching. The successful candidate should have an excellent track record in publishing and ideally have demonstrated ability to attract funding:

<https://www.bath.ac.uk/jobs/Vacancy.aspx?ref=-3DFY3457> 3. Lecturer (Assistant Professor) in Evolution

Preference will be given to candidates working in whole organism biology (including evolutionary conservation

biology and behavioural ecology), but all fields will be considered. The candidate will be expected to develop and run courses, including a field course, in whole organism biology although this need not be their focal interest. The successful candidate should have an excellent track record in publishing and ideally have demonstrated ability to attract funding:

<https://www.bath.ac.uk/jobs/Vacancy.aspx?ref=-3DFY3458> Informal enquiries may be made to Professor Rod Scott, Department of Biology and Biochemistry on 01225 383136.

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

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

UBritishColumbia RestorationEcology

****We certainly encourage applications from candidates bringing an evolutionary perspective to the discipline of Restoration Ecology.****

The Irving K. Barber School of Arts and Sciences (IKBASAS), at the University of British Columbia's Okanagan campus, invites applications for a Canada Research Chair (Tier 2) in ³Restoration Ecology.² Expertise may be in any group of organisms (animals, plants, fungi, etc.) and at any scale (population, community, landscape, ecosystem, etc.). The appointment will be at the rank of Assistant or Associate Professor (tenure-track), and is expected to start on July 1, 2016 or soon thereafter. The appointment will be in Biology (<http://biol.ok.ubc.ca/>), with opportunities for intra- and inter-Faculty research collaborations.

The successful candidate will be an outstanding emerging and interdisciplinary scholar who has demonstrated strong research productivity and has potential to achieve international recognition within the next 5-10 years. A doctoral degree and postdoctoral or equivalent experience in a relevant field are required. The appointee will be expected to establish an independent, creative, high-impact, externally-funded research program. The proposed research should complement existing research

programs in Biology and other units in the Faculty and across campus. The appointee will have demonstrated experience or potential as an excellent teacher and mentor of undergraduate and graduate students, and will contribute to the development and delivery of core programs in the Faculty. S/he is also expected to undertake service responsibilities at the departmental, Faculty, university, and professional levels, as appropriate.

Tier 2 Chairs are intended for exceptional emerging scholars (i.e., candidates must have been active researchers in their field for fewer than 10 years at the time of nomination. Applicants who are more than 10 years from having earned their highest degree (and where career breaks exist, such as maternity, parental or extended sick leave, etc.) may have their eligibility for a Tier 2 Chair assessed through the program's Tier 2 justification process. Please consult the CRC website for full program information, including further details on eligibility criteria (<http://www.chairs-chaieres.gc.ca/>).

The successful candidate will be required to participate in the preparation of a CRC nomination package for submission in April, 2016.

UBC is one of the world's leading universities. The university has two distinct campuses, one in Vancouver and one in Kelowna. UBC's Okanagan campus, located in the city of Kelowna, has over 8,000 students in seven faculties, with strong graduate programs. Situated in the heart of the Okanagan Valley, one of the most scenic regions in Canada, it offers an intimate learning environment and excellent opportunities for regional, national, and international scholarly activities.

At UBC's Okanagan campus, Biology is housed in the vibrant Irving K. Barber School of Arts and Sciences. The Faculty offers both discipline-based and interdisciplinary programs at the undergraduate and graduate levels. The collegial learning environment in the Faculty focuses on effective teaching, critical and creative scholarship, and the integration of scholarship and teaching. We are committed to an ethos of local involvement, global engagement, and intercultural awareness and we provide a positive, inclusive, and mutually supportive working and learning environment for all our students, faculty, and staff. To learn about the Irving K. Barber School of Arts and Science, go to <http://www.ubc.ca/okanagan-ikbarberschool/welcome.html>. For more information about UBC resources and opportunities, please visit <http://www.hr.ubc.ca/faculty-staff-resources/>. Information about the surrounding community, can be found at: <http://www.hr.ubc.ca/worklife-relocation/>. How to Apply

To apply for this position, please visit the link: www.facultycareers.ubc.ca/21701 Applicants are asked

to submit: (i) a cover letter outlining qualification for the position and fit with the Biology programme and the IKBSAS; ii) a curriculum vitae; (iii) a two-page statement of the proposed research program; (iv) a two-page statement on teaching philosophy and teaching interests; v) up to three citations or pdf versions of scholarly publications that demonstrate contributions to the field; and vi) the names of three referees who have been asked to submit letters of reference..

Applicants should arrange for three letters of reference, addressed to Dr. Michael Deyholos (Head of Biology), to be sent by email to:

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UCalifornia Davis LabTech InsectPhylogenetics

JUNIOR SPECIALIST POSITION AVAILABLE

Entomology Department

University of California at Davis

September 2015

The Kjer lab is involved with insect phylogenetics and biodiversity studies using DNA data from both Sanger, and Genomic sequencing. Dr. Karl Kjer is new to the Davis faculty and will be setting up his lab in the fall of this year. He is seeking a biologist or computer scientist to assist him in lab set-up, lab work, organization, and analysis. Initially, this person will assist in the lab setup, be responsible for ordering supplies, and organizing the frozen tissue collection. Once the lab is set up, s/he will assist in the laboratory, preparing samples for sequencing. Part of this preparation involves sorting insect specimens, which involves labeling and photography with high powered digital microscopy. DNA extraction, amplification, sequencing, and analysis will then be performed by the Junior Specialist.

Although computer or laboratory skills, or experience with photography are an asset, Dr. Kjer will train in all necessary skills. Phylogenomics involves running complicated computer programs, and skills in programming, or running scripts would be important but again,

not required. The candidate must be dependable, independent, and inquisitive with a love of learning. A passion for biodiversity (especially insects) is important. The specialist will learn about phylogenomic analysis as part of a collegial team that interacts with the staff and students at the Bohart museum. Dr. Kjer is looking for a 2-3 year commitment. This position will be an ideal opportunity for a recent undergraduate who may want some time to think about their future and discover if they would like to pursue this kind of work. Authorship and independent research is possible. Consult the Kjer website for further details on his research.

Minimum B.S. or B.A. degree required. Position is full-time. Salary is \$3082/mo plus benefits.

Interested applicants should email a cover letter, and a CV and contact information to: kkjer@ucdavis.edu

Please provide the names and contact information for three references.

Review of applications will begin on Oct. 1, 2015.

University of California is an AA/EOE

UC Davis is a smoke and tobacco free campus effective January 1, 2014. Smoking, the use of smokeless tobacco products, and the use of unregulated nicotine products (e-cigarettes) will be strictly prohibited on any UC Davis owned or leased property, indoors and outdoors, including parking lots and residential space.

Additional information regarding this new policy is available at breathefree.ucdavis.edu/index.html.

Karl Kjer <karl.kjer@gmail.com>

UCalifornia Riverside EvolGenomics

Faculty Position- Assistant Professor EVOLUTIONARY GENOMICS

University of California, Riverside

The Department of Biology invites applications for a 9-month tenure-track faculty position in the area of Evolutionary Genomics, starting July 1, 2016. Candidates should employ a comparative evolutionary approach in the study of genome architecture and its consequences for adaptive evolution. The research should exploit the burgeoning ability to study genomes to tackle key problems in the genetics and evolution of fundamental biological processes, such as pathogenicity, disease resistance, physiological adaptation, symbiosis, response

to a changing environment, invasiveness, animal or plant domestication, productivity, behavior/signaling, stress/tolerance, speciation/extinction, or the evolution of the genome itself. Ideally, the candidate will be proficient at developing novel bioinformatics approaches to the comparative study of genomes. Researchers that utilize techniques such as advanced statistical methods and computer-programming skills are desired. The successful candidate will join a vibrant community of researchers in the Department of Biology, the Evolution, Ecology and Organismal Biology Graduate Program, the Genetics, Genomics, and Bioinformatics Graduate Program, the Center for Conservation Biology, the Center for Invasive Species Research, the Institute for Integrative Genome Biology, and the Environmental Dynamics and GeoEcology Institute. The successful candidate will also have access to modern campus facilities in genomics/bioinformatics, proteomics, microscopy, stable isotope analysis, and field stations and facilities. Consult www.biology.ucr.edu for details about the department. Applicants will be expected to pursue vigorously extramurally-funded research and contribute to teaching in our undergraduate and graduate core curricula. A Ph.D. and demonstrated excellence in research are required.

Applications, including a curriculum vitae, separate statements of research and teaching interests, and up to three selected reprints must be submitted through: <https://aprecruit.ucr.edu/apply/JPF00416>. In addition, applicants should request that three letters of recommendation be submitted through this site.

Evaluation of applications will begin October 11, 2015, but the position will remain open until filled.

UCR is a world-class research university with an exceptionally diverse undergraduate student body. Its mission is explicitly linked to providing routes to educational success for underrepresented and first-generation college students. A commitment to this mission is a preferred qualification.

Advancement through the faculty ranks at the University of California is through a series of structured, merit-based evaluations, occurring every 2-3 years, each of which includes substantial peer input.

The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, age, disability, protected veteran status, or any other characteristic protected by law.

Rachel Alvarez <rachel.alvarez@ucr.edu>

UCalifornia Riverside EvolutionaryEcol

Faculty Position- Assistant Professor COMMUNITY ECOLOGY University of California, Riverside

The Department of Biology invites applications for a 9-month tenure-track faculty position in the area of Community Ecology, starting July 1, 2016. We are searching for an empirical ecologist who studies relationships between interacting species and their environment as part of the UCR Strategic Planning Vision in Renewable Nature: Environment, Energy, and Sustainable Development. Examples of research focus could include (but are not limited to) the functional ecology of communities, community assembly, consumer-resource dynamics, evolutionary ecology (including ecological genetics and genomics), interactions between ecology and evolution, and responses of communities to stressors such as climate change and invasive species using an integrative array of techniques such as GIS, sensors, molecular biology and genomics/bioinformatics. The ideal candidate will have a strong field component to their research and expertise in advanced statistical techniques. The successful candidate will join a vibrant community of researchers in the Department of Biology, The Ecology, Evolution and Organismal Biology Graduate Program, the Center for Conservation Biology, the Center for Invasive Species Research, the Institute for Integrative Genome Biology, and have access to modern campus facilities in bioinformatics, genomics, proteomics, microscopy, stable isotope analysis, geographic information systems, ecological sensing technologies and field stations and facilities. Consult www.biology.ucr.edu for details about the department. Applicants will be expected to pursue vigorously extramurally-funded research and contribute to undergraduate and graduate teaching Ph.D. and demonstrated excellence in research are required.

Applications, including a curriculum vitae, separate statements of research and teaching interests, and up to three selected reprints must be submitted through: <https://aprecruit.ucr.edu>. In addition, applicants should request that three letters of recommendation be submitted through this site.

Evaluation of applications will begin November 1, 2015 and priority will be given to applications that are complete by this date. The position will remain open until

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Rachel Alvarez <rachel.alvarez@ucr.edu>

UCalifornia Riverside EvolutionaryEcol 2

Faculty Position- Assistant Professor COMMUNITY ECOLOGY University of California, Riverside

The Department of Biology invites applications for a 9-month tenure-track faculty position in the area of Community Ecology, starting July 1, 2016. We are searching for an empirical ecologist who studies relationships between interacting species and their environment as part of the UCR Strategic Planning Vision in Renewable Nature: Environment, Energy, and Sustainable Development. Examples of research focus could include (but are not limited to) the functional ecology of communities, community assembly, consumer-resource dynamics, evolutionary ecology (including ecological genetics and genomics), interactions between ecology and evolution, and responses of communities to stressors such as climate change and invasive species using an integrative array of techniques such as GIS, sensors, molecular biology and genomics/bioinformatics. The ideal candidate will have a strong field component to their research and expertise in advanced statistical techniques. The successful candidate will join a vibrant community of researchers in the Department of Biology, The Evolution, Ecology and Organismal Biology Graduate Program, the Center for Conservation Biology, the Center for Invasive Species Research and the Institute for Integrative

Genome Biology, and have access to modern campus facilities in bioinformatics, genomics, proteomics, microscopy, stable isotope analysis, geographic information systems, ecological sensing technologies and field stations and facilities. Consult www.biology.ucr.edu for details about the department. Applicants will be expected to vigorously pursue extramurally-funded research and contribute to undergraduate and graduate teaching Ph.D. and demonstrated excellence in research are required.

Applications, including a curriculum vitae, separate statements of research and teaching interests, and up to three selected reprints must be submitted through <https://aprecruit.ucr.edu/apply/JPF00381>. In addition, applicants should request that three letters of recommendation be submitted through this site.

Evaluation of applications will begin November 1, 2015 and priority will be given to applications that are complete by this date. The position will remain open until filled.

UCR is a world-class research university with an exceptionally diverse undergraduate student body. Its mission is explicitly linked to providing routes to educational success for underrepresented and first generation college students. A commitment to this mission is a preferred qualification. Advancement through the faculty ranks at the University of California is through a series of structured, merit-based evaluations, occurring every 2-3 years, each of which includes substantial peer input.

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Rachel Alvarez <rachel.alvarez@ucr.edu>

UCalifornia SanDiego Teaching GenomicsBioinformatics

The Division of Biological Sciences at UC San Diego (www.biology.ucsd.edu) invites applications for an Assistant Teaching Professor position. Faculty in the Teaching Professor series are Academic Senate members whose expertise and responsibilities center on undergraduate education, as well as the scholarly analysis and improve-

ment of teaching. This appointment can lead to tenure and is comparable to an assistant professorship.

The incumbent's primary responsibility will be to develop and teach undergraduate lab and lecture courses for Biology majors in the areas of genomics and bioinformatics. The incumbent will also advance science education through professional activities such as research in science teaching methodologies, initiating new teaching methods or courses, participation in writing textbooks and/or creating on-line teaching materials. We are especially interested in candidates who have created or contributed to programs that aim to increase access and success of underrepresented students and/or faculty in the sciences and/or have well developed plans to accomplish such goals. The incumbent will also support the integration of genomics and bioinformatics into courses taught by other faculty in Biology. This position will serve as an educational leader at the Division and campus-wide level supporting student success and teaching innovation.

All candidates must have earned a Ph.D. or equivalent degree in Biology or Computer Science, or a related field, and have substantial experience in the areas of genomics and bioinformatics as evidenced by scholarly achievement in these areas (e.g. publications and/or conference presentations). In addition, the successful candidate is expected to have:

- Significant university-level teaching experience, with demonstrated success teaching at the undergraduate level, preferably with experience teaching large enrollment undergraduate courses. Candidates should demonstrate knowledge and experience employing instructional strategies that are rooted in results from modern research on the science of learning (evidence-based teaching);
- Knowledge of and/or experience in professional activities that advance science education at and beyond UCSD such as development of a research program investigating the science of learning and teaching as it relates to his/her area of expertise;
- A commitment to equity and inclusion in higher education. Ability to successfully address the educational and academic needs of a diverse student population, including identifying and/or developing effective teaching strategies for the educational advancement of students from groups who are underrepresented in higher education;
- Demonstrated ability or potential to serve as an effective leader in the educational program of the Division of Biological Sciences.

The Division of Biological Sciences at UCSD is a vibrant center of scientific discovery, innovation, and collaboration. Our large research base spans many areas of biology and is complemented by highly ranked educa-

tional programs at both undergraduate and graduate levels. We are committed to academic excellence and diversity within the faculty, staff, and student body.

Salary is commensurate with qualifications and based on University of California pay scales.

Completed applications received by Oct. 19, 2015 will be assured of consideration.

Interested applicants must submit: - Curriculum vitae and cover letter - Statement describing prior teaching experience and teaching philosophy - Statement of current and proposed science education research or other professional activities advancing science education - Electronic copies (in PDF format) of at least 3 recent publications - Statement describing past experience and leadership in fostering equity and diversity and/or potential to make future contributions. For information on preparing diversity statements and divisional initiatives to promote diversity, see: <http://facultyequity.ucsd.edu/FacultyApplicant-C2D-Info.asp> and <http://biology.ucsd.edu/diversity/index.html> .- 3-5 references.

Applications must be submitted through the University of California San Diego's Academic Personnel RECRUIT System at <https://apol-recruit.ucsd.edu/apply/-JPF00892> . Further details about the required application material can be found at: <http://biology.ucsd.edu/jobs/apply-lrf-lsoe.html> UC San Diego is an Equal Opportunity/Affirmative Action Employer with a strong institutional commitment to excellence through diversity. All qualified applicants will receive consideration for employment without

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

UCBerkeley ViralEvolution

THE UNIVERSITY OF CALIFORNIA, BERKELEY
VIROLOGIST

*The department of Plant and Microbial Biology at UC Berkeley is hiring an Assistant Professor of Virology: <https://aprecruit.berkeley.edu/apply/JPF00824> < <https://aprecruit.berkeley.edu/apply/JPF00824> >. One of the areas they are looking for is evolution, and the evolution of viral interactions would be a perfect fit

for the department and a fantastic addition to a growing group in evolutionary and ecological microbiology. *

The Department of Plant and Microbial Biology at the University of California, Berkeley, has an opening for an Assistant Professor (tenure track, nine-month appointment) with an expected start date of July 1, 2016. The Department of Plant and Microbial Biology is seeking applications for a faculty position in virology. We seek an individual studying the biology of viruses, including but not limited to those that impact plants, bacteria, and/or archaea at the individual or community level. Research areas of interest include multiple areas of mechanistic virology, including viral replication, evolution, and virus-host interactions.

Applicants must have a Ph.D. or equivalent degree by the time of application. Candidates must have demonstrated excellence and originality in research and relevant postdoctoral experience by the appointment start date. The successful applicant will be expected to develop an outstanding, extramurally funded research program as well as participate in undergraduate and graduate teaching and will integrate with a dynamic and collaborative group of faculty whose research spans diverse areas of biology including virology, plant-associated and environmental microbes, microbial communities, mycology, and applied microbiology.

They will join a vibrant community of microbiologists on the UC Berkeley campus in the Plant & Microbial Biology Department (<http://pmb.berkeley.edu/>), the Graduate Group of Microbiology (<http://pmb.berkeley.edu/ggm/faculty>) and the UC Berkeley Energy Biosciences Institute (<http://www.energybiosciencesinstitute.org>) with opportunities to establish collaborations with the Innovative Genomics Initiative (<http://innovativegenomics.org/>) and Synthetic Biology Institute (<http://synbio.berkeley.edu/>) and the Berkeley Lab (<http://www.lbl.gov/>), Joint Genome Institute (<http://www.jgi.doe.gov/>), and the Joint BioEnergy Institute (<http://www.jbei.org/>).

To apply, please go to the following link: <https://aprecruit.berkeley.edu/apply/JPF00824> Applicants should submit a cover letter, a curriculum vitae, a 2-3 page overview of current and future research interests, a 1 page statement of teaching experience and philosophy, three to five letters of recommendation, and up to five supporting papers (optional). In addition, please provide a statement of contributions to diversity, addressing past and/or potential contributions to diversity through research, teaching, and/or service. All letters of recommendation will be treated as confidential per University of California policy and California state law. Please refer potential referees, including when letters

are provided via a third party (i.e., dossier service or career center), to the UC Berkeley statement of confidentiality (<http://apo.berkeley.edu/evalltr.html>) prior to submitting their letters.

The application and all supporting documents should be submitted by the search closing date, November 13, 2015. Applications submitted after the deadline will not be accepted. Please direct questions to pmb-search@berkeley.edu.

For additional information about the Department, the graduate programs and the campus, please visit <http://pmb.berkeley.edu> and <http://berkeley.edu>.

UC Berkeley is interested in recruiting a diverse applicant pool and is committed to addressing the family needs of faculty, including dual career couples and single parents. For information about potential relocation to Berkeley, or career needs of accompanying partners and spouses, please visit: <http://ofew.berkeley.edu/new-faculty>. The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age or protected veteran status.

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UCincinnati EvolutionaryMicrobiol

Applications from people using innovative metagenomic approaches with an evolutionary slant are welcome. Review of applications will begin on October 15th 2015

The University of Cincinnati is pleased to announce a tenure-track position in the area of environmental microbiology. This position is part of the first round of Water Cluster hires that include four tenure-track faculty positions in the areas of environmental microbiology, environmental chemistry, urban water infrastructure and watershed hydrology. The Water Cluster Initiative seeks to hire six new tenure-track faculty over the next two years to strengthen interdisciplinary programs in water research, education and outreach. The Water Cluster hires represent a joint initiative between the College of

Engineering and Applied Science (CEAS), McMicken College of Arts & Sciences (A&S), and the College of Design, Architecture, Art and Planning (DAAP). Building on our research and innovation strengths, UC's Cluster Hiring Initiative supports existing and emerging partnerships within and between colleges, divisions and areas. In partnership with the Vice President of Research, the Provost's cluster hiring investments harness the power of faculty members focused on solving the world's biggest challenges through leading-edge research and interdisciplinary collaborations that erase boundaries and embrace creative, bold ideas.

Designed to attract top-quality faculty from around the world, UC's Clusters represent the university's commitment to investing in faculty and interdisciplinary problem-solving. UC's Water Cluster establishes our region as a national and global leader in water research, education and outreach centered on integrated water resources management within and across natural and engineered systems. By bringing water planning and management experts together, the Water Cluster provides a supportive platform for new approaches to environmental sustainability.

A detailed job description for the environmental microbiology position follows; please see the Provost's website <http://www.uc.edu/provost/clusters> for more information about the Cluster Hiring initiative and visit <https://career8.successfactors.com/-career?company=UCPROD> for a listing of all open positions.

Environmental microbiology of hydrological systems. We seek to hire an assistant professor with research interests in environmental microbiology. Emphasis is placed on understanding the broad factors affecting water quality including biological, hydrological and geological processes, and the impacts on human health in natural and urban water resources systems from local to regional scales. Specific areas of interest include natural and human-influenced dynamics of microbial communities, the detection and mitigation of waterborne pathogens, algal blooms, and/or biofilms. Candidates using metagenomics/bioinformatics approaches to these questions are particularly encouraged to apply. The successful candidate will complement the three broad areas of interest within the water cluster, including human impacts on the global hydrologic cycle, urban water and wastewater systems, and linkages between water and energy systems. (Apply to: UC Requisition ID 5587)

Responsibilities: The successful candidate will be expected to develop and maintain an internationally-recognized externally-funded research program; provide excellence in undergraduate and graduate teaching and

education; and contribute to scholarly activities performed within academic communities across the university. The successful candidate will also be expected to contribute in meaningful ways to interdisciplinary research and educational activities that complement and are synergistic within the Water Cluster.

Qualifications: A Ph.D. degree in biology/microbiology or a closely related field is required. Candidates will be evaluated based on their alignment within the Water Cluster and on their academic credentials, their record of research, teaching and scholarly activities and potential for success in developing a funded research program and making contributions in research, teaching and service to the field.

Appointment: The position is anticipated to be filled at the rank of assistant professor. However, exceptional associate and full professor candidates will be considered based upon credentials. Successful candidates are expected to have a primary appointment in the Department of Biological Sciences (A&S) or Biomedical, Chemical and Environmental Engineering (CEAS) with potential secondary appointments in other appropriate programs within and outside these departments.

Proposed Start Date: Aug 15, 2016 or as negotiated

To Apply: For full consideration, please submit a cover letter, a curriculum vita that includes a list of recent publications; a list

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

UConnecticut Arthropod Evolution Ecology

Assistant Professor, Arthropod Evolution/Ecology Department of Ecology and Evolutionary Biology University of Connecticut

For the complete position announcement, please visit <https://academicjobsonline.org/ajo/jobs/6351> Job Summary: The Department of Ecology and Evolutionary Biology at the University of Connecticut seeks a researcher who uses innovative approaches to address fundamental evolutionary or ecological questions using arthropods as a study system. We especially encourage

applications from individuals working in one or more of the following areas: population and evolutionary genomics, species interactions, functional and behavioral biology, population biology, biodiversity, paleobiology, diversification, and adaptation.

This position builds on Departmental strengths in organismal biology, ecology, evolution, systematics, and conservation biology. The Department offers a highly collaborative environment at a top public research university that is committed to fostering a diverse, inclusive academic community. More information about the Department can be found at <http://www.eeb.uconn.edu>. Minimum Qualifications: The successful candidate will have a minimum of two first-authored publications related to arthropod evolution/ecology and have earned a Ph.D. in Ecology and Evolutionary Biology, Entomology, or a related field by time of appointment. Equivalent foreign degrees are acceptable.

Preferred Qualifications: Potential to establish a nationally recognized research program using arthropods to answer fundamental ecological or evolutionary questions; research program that complements and expands the Department's strengths; evidence of or potential for excellence in teaching and mentoring; commitment to fostering and supporting diversity in the Department and University; broad training in arthropod biology; relevant postdoctoral experience.

Appointment Terms: This is a full-time, 9-month, tenure-track Assistant Professor position with an anticipated start date of August 23rd, 2016.

To Apply: Follow the 'Faculty Positions' link at <http://jobs.uconn.edu>, which will redirect you to Academic Jobs Online. Please submit the following: 1) a cover letter addressing qualifications, including a description of experience with and commitment to enhancing diversity; 2) curriculum vitae; 3) a summary of research accomplishments and future research objectives (3 pages maximum); and 4) a description of teaching experience, interests, and approach (2 pages maximum). Additionally, please follow the instructions in Academic Jobs Online to direct at least three reference writers to submit letters of reference on your behalf. To ensure full consideration, applications should be received by November 2, 2015. We request that all reference letters also be received by this date. (Search # 2016155)

The University of Connecticut is committed to building and supporting a multicultural and diverse community of students, faculty and staff. The diversity of students, faculty and staff continues to increase, as does the number of honors students, valedictorians and salutatorians who consistently make UConn their top choice. More than 100 research centers and institutes serve the

University's teaching, research, diversity, and outreach missions, leading to UConn's ranking as one of the nation's top research universities. UConn's faculty and staff are the critical link to fostering and expanding our vibrant, multicultural and diverse University community. As an Affirmative Action/Equal Employment Opportunity employer, UConn encourages applications from women, veterans, people with disabilities and members of traditionally underrepresented populations.

Elizabeth Jockusch Professor, Ecology and Evolutionary Biology University of Connecticut elizabeth.jockusch@uconn.edu

"elizabeth.jockusch@uconn.edu"
<elizabeth.jockusch@uconn.edu>

UFlorida ResTech EvolutionDisease

The laboratory of Dr. Samantha Wisely is looking for an energetic, well-organized person to join a growing team of biologists, graduate students and post-doctoral researchers at the Department of Wildlife Ecology and Conservation at the University of Florida, Gainesville. The biological scientist will focus on a study of disease in large game and other non-model species.

The primary duties will involve collecting biological samples from live animals and necropsies. The individual will also generate serological data, conduct PCR and assist the lead biological scientist in generating disease surveillance data in a highly active, diverse genetics research laboratory. In addition, the candidate will assist with student training (basic laboratory training of undergraduate and new graduate students).

Minimum requirements are a BS or equivalent science degree, plus 1 years experience working or conducting research in a field or laboratory setting. Preference will be given to candidates with independent research experience and surveillance work. Experience with organization of large data sets in databases, including the cataloging of biological samples is strongly preferred. Experience working in a veterinary diagnostic or academic lab where the candidate developed standard operating procedures is a plus. Basic understanding of biochemistry will be highly beneficial to the successful candidate. Applicants having experience in generating molecular genetic data, including next-generation sequence data analysis, or experience generating and validating serological data from surveillance studies should apply. Strong inter-personal skills and communication are required, a

s the candidate will be interacting with a diverse group of lab users. The candidate must be able to obtain a Florida driver's license.

Preference will be given to applicants that clearly articulate their relevant experience in their cover letter, and who provide references that can speak to your ability to perform in a busy molecular laboratory, or work independently in the field, and be a team player.

This is a three-year position, thereafter renewable on an annual basis upon availability of funding. Salary is \$30,000 plus benefits. Applications will be accepted through August 31, 2015. Start date is expected to be October 2015 (to be negotiated).

Applicants will be required to formally apply through the University of Florida employment site: <http://jobs.ufl.edu/>. This position number is 493267. However, it is encouraged that you also contact Dr. Katherine Sayler, saylerk@ufl.edu, with your cover letter, contact information for 3 references, and your CV.

Samantha Wisely, Ph.D.

Associate Professor Dept. of Wildlife Ecology and Conservation 110 Newins-Ziegler Hall PO Box 110430 University of Florida Gainesville, Florida 32611-0430

Phone: 352.846.0645 FAX: 352.392.6984 Email: wisely@ufl.edu

"Wisely,Samantha M" <wisely@ufl.edu>

UGlasgow EvolutionaryMicrobiology

LECTURER/SENIOR LECTURER IN MICROBIOLOGY

The Institute of Biodiversity, Animal Health and Comparative Medicine (<http://www.gla.ac.uk/researchinstitutes/bahcm/>) at the University of Glasgow is looking for a Lecturer/Senior Lecturer with interests in phylodynamics of bacterial infectious diseases and/or the evolutionary ecology of antimicrobial resistance. We are particularly interested in applicants with experience of bacterial zoonotic disease and antimicrobial resistance, with broad interests able to lead and support collaborative research combining molecular approaches with field and experimental studies. The appointments will join and complement an existing accomplished multidisciplinary team of researchers with wide-ranging expertise in bacteriology, virology, mathematical, molecular and field

epidemiology, phylodynamics, mathematical modeling, bioinformatics and evolutionary biology.

More information is available here: http://www.gla.ac.uk/researchinstitutes/bahcm/bact_jobs/

Deadline: 11 October, 2015

Informal enquiries are welcome and can be made to the Director of the Institute: Daniel.Haydon@glasgow.ac.uk.

Professor Barbara Mable Rm 404 Graham Kerr Building Institute of Biodiversity, Animal Health and Comparative Medicine College of Medical, Veterinary & Life Sciences University of Glasgow Glasgow, Scotland G12 8QQ Email: barbara.mable@glasgow.ac.uk Phone: +44 (0)141 330 3532 Fax: +44 (0)141 330 5971

<http://www.gla.ac.uk/bahcm/> Twitter: @IBAHCM

The University of Glasgow, charity number SC004401

"Barbara.Mable@glasgow.ac.uk"
<Barbara.Mable@glasgow.ac.uk>

UHohenheim Stuttgart Bioinformatician

Our research group 'Crop Biodiversity and Breeding Informatics' is looking for a Bioinformatician

to collaborate with the research scientists in our group to investigate genetic and phenotypic diversity and the processes that shape this variation in wild and crop plants. We also develop approaches for utilizing this diversity in plant breeding. A major challenge is to model the complex nature of different data types and to implement software pipelines for a rapid analysis of modern sequencing and phenotyping data in a high performance computing environment.

Tasks include to contribute to the development of our infrastructure for data management and analysis, and the analysis of genomic (sequencing) and phenotypic data (e.g., from image analysis). We expect that the post holder also works independently on a scientific subproject. Further tasks are administration of our scientific software in collaboration with system administrators and facilitating the use of the available high performance computing infrastructure by our group.

We look for applicants with a Bachelor or Master-level degree in bioinformatics or a related field. A basic familiarity with current tools for sequence analysis, statistical analysis (e.g., R) and programming skills in a relevant

language (e.g., Python) in a UNIX environment are required. The position also requires very good organization, communication and team-working skills and we expect an independent working style.

The position is available immediately until 30 November 2016 and paid according to the E13 TV-L government salary scale. We seek to extend the position beyond this period. The University of Hohenheim is an equal opportunity employer. Women and members of minority groups are strongly encouraged to apply. The University of Hohenheim is located on a beautiful campus in the South German city of Stuttgart, which has a very good cultural life and a nice surrounding.

Further information can be obtained from www.evoplant.uni-hohenheim.de or from the address below. Please upload your application (Cover letter, CV, transcripts, publications, a short letter of motivation, addresses of references) until 4 October 2015 as a single PDF at this link: <http://uhoh.de/-350bbi15> Prof. Dr. Karl Schmid Institute of Plant Breeding, Seed Science and Population Genetics Universität Hohenheim Fruwirthstrasse 21 D-70599 Stuttgart, Germany Phone: +49 711 459 23487 Email: karl.schmid@uni-hohenheim.de

"karl.schmid@uni-hohenheim.de" <karl.schmid@uni-hohenheim.de>

UKentucky MicrobialEvolution

The Department of Biology at the University of Kentucky seeks to recruit 4 tenure-track Assistant Professors in the following areas:

1. Cell Biology
2. Microbiology (*microbial ecology and/or evolution are encouraged*)
3. Neuroscience
4. Physiology

Please see the *official advertisement* in Science below for details on the positions and how to apply.

<http://jobs.sciencereers.org/job/380870/assistant-professor-of-biology-4-positions/> Additionally, we are particularly interested in programs that integrate empirical approaches with theoretical, statistical, or computational approaches, and also encourage applications from candidates with primarily computational interests.

Initial consideration of applications will begin immediately and the positions will remain open until filled.

For more details on the department and the university, visit our website (<http://bio.as.uky.edu/>). Questions about the Department and/or these searches should be addressed to Dr. Vincent M. Cassone (Department of Biology Chair), email: Vincent.Cassone@uky.edu / telephone: (859) 257-6766.

The University of Kentucky is an Affirmative Action/Equal Opportunity University that values diversity and is located in an increasingly diverse geographical region. It is committed to becoming one of the top public institutions in the country. Women, persons with disabilities, and members of other underrepresented groups are encouraged to apply. The University also supports family-friendly policies.

Jeremy Van Cleve <jeremy.vancleve@gmail.com>

UKentucky ResTech BehavioralEvolution

Clare Rittschof's new laboratory at the University of Kentucky (Department of Entomology) is searching for a full time research technician. The lab studies the ways in which social interactions modulate individual and group behaviors through changes in gene expression, physiology, and neural function, as well as the implications of these mechanisms for behavioral evolution (please see clarerittschof.blogspot.com). Current research projects are focused on honey bees. This position offers the opportunity to participate in or manage an interesting variety of lab-based and field-based projects.

Primary responsibilities for the position include day-to-day lab management, assisting graduate students with research projects, maintaining lab equipment, ordering supplies, managing undergraduate students, and implementing and trouble-shooting molecular protocols (e.g., RNA extraction, qPCR, RNAseq library preparation, enzyme activity assays). Candidates will be expected to carry out research projects independently and as part of a team.

Salary will be commensurate with degree level and experience. Minimum qualifications include a bachelor's degree in biology or a related field, and at least some experience in molecular biology. Experience working with insects or honey bees is desirable but not essential.

This is a full time position with a minimum commitment of 1 year. The earliest anticipated start date is January 15, 2016. If you are interested in apply-

ing for this position, please contact Clare Rittschof (clare.rittshof@gmail.com).

– Clare Rittschof, Ph.D. Post-doctoral Associate

Department of Entomology Pennsylvania State University, State College, PA

Department of Entomology and Carl R. Woese Institute for Genomic Biology University of Illinois, Urbana-Champaign, IL

Website: clarerittschof.blogspot.com

Clare Rittschof <ccr13@psu.edu>

UKentucky Tech InsectEvolution

My laboratory in the department of Entomology and the University of Kentucky is searching for a new Senior Laboratory Technician. Information on my laboratory is available at <http://www.uky.edu/~cfox/> and information on the department is at <http://www2.ca.uky.edu/entomology/entomology.php>. Though this is a full time technician appointment, some of our technicians join our graduate program and work part-time towards a graduate degree (MS or PhD) in Entomology.

Current projects in the laboratory include behavioral ecology and life history evolution of seed beetles, and analysis of biases in peer review. The behavior and life history projects are working with live beetles, but the peer review project is computer-based in which the technician will help build and organize a large database on scientific peer review (see here for an example outcome of this project: <http://onlinelibrary.wiley.com/doi/10.1111/1365-2435.12529/full>).

If you have questions about this position, including the possibility of using this as an opportunity to work part time towards and MS or PhD degree, please email me (Charles Fox) at cfox@uky.edu. To see the full job description and submit an application, please go to this web page: <https://ukjobs.uky.edu/postings/80512> Details of the position are pasted below.

Job Summary: The Laboratory Technician Senior will support hatch-funded laboratory research in the department of Entomology. This position will manage research projects which include working with live insects in a laboratory, managing internet based projects and assisting students with projects that require extracting DNA

and/or protein. In addition, this position will maintain insect colonies, manage lab personnel and research, and participate in departmental service events.

Primary responsibilities will include: assist students/post-docs with experiment set-up and execution using live insects, data collection, entry and organization; maintain insect colonies of one or more species and provide adequate animals for laboratory experiments; manage student workers, including hiring, training and supervision; coordinate space and animal needs; manage research laboratory including purchasing supplies, coordinating equipment/facilities maintenance and repairs, and other general laboratory management; and participate in departmental service events which include Night Insect Walk and other outreach events as requested. This research is conducted within laboratory, greenhouse and field environments.

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

Preferred Education/Experience: Preferred candidates will have a Bachelor's of Science in Biology, Entomology or related discipline; experience rearing or doing research with insects preferred; molecular skills useful but not required; and knowledge of university policies and procedures. Deadline to Apply: 11 October 2015

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

– Dr. Charles W. Fox Professor and Director of Graduate Studies Department of Entomology University of Kentucky Lexington, KY 40546-0091 phone: 859-257-7474 e-mail: cfox@uky.edu web: www.uky.edu/~cfox “cfox@uky.edu” <cfox@uky.edu>

ULubeck EvolutionDisease

Independent Junior Group Leader Position for “Human Genetics of Inflammatory Skin Diseases”

The Institute of Experimental Dermatology (LIED) of

the University of L  beck is the currently only research department in Germany solely dedicated to basic and translational research on skin diseases and is a major contributor to the Clinical Research Unit (CRU) 303 Pemphigoid Diseases Molecular Pathways and their therapeutic Potential, constituting a newly established and generously funded research consortium at the University of L  beck, newly established and generously funded by the German Research Foundation (DFG) for 6 years.

LIED is currently searching for a new, independent

Group Leader for Human Genetics of Inflammatory skin Diseases.

LIED is a newly established institute committed to integrate translational research and systems medicine approaches to accelerate the transfer of basic research findings into the clinical practice in the broad area of skin inflammation. LIED is an interdisciplinary research institute with access to state-of-the-art facilities for genomics, cell imaging, flow cytometry, molecular biology, bioinformatics, animal housing, and more.

The junior group leader is expected to focus on human genetics of inflammatory skin diseases, including pemphigoid and pemphigus diseases in the framework of the (CRU 303). To this end, a large cohort of pemphigoid and pemphigus disease patients has been established over the last 10 years at the University of L  beck, now awaiting genetic analysis.

Successful candidates are expected to work in an independent and collaborative manner and to apply for extramural funding.

The positions will be first limited to 3 years, with the possibility for an extension for at least another 3 years. A start-up package will be offered.

The University of L  beck is an equal opportunity employers committed to excellence through diversity. Applications of women are explicitly encouraged.

Please, submit your application (CV, research statement (1000 words max), and two reference contact details) by October 1st, 2015, to

Prof. Saleh M. Ibrahim Director Luebeck Institute of Experimental Dermatology (LIED) Ratzeburger Allee 160, 23538 L  beck, Germany Mail: LIED@uksh.de

“kunstner@evolbio.mpg.de”

<kunstner@evolbio.mpg.de>

UMemphis Teaching Evolutionary Biol

Position announcement:

Assistant/Associate Professor, Department of Biological Sciences, The University of Memphis, Memphis, TN 38152

Tenure-track Assistant/Associate Professor in Biological Sciences Education, beginning in August 2016.

The Department of Biological Sciences at the University of Memphis (www.memphis.edu/biology) is extending the deadline for applications for a tenure-track position in biological sciences education (research and teaching) at the Assistant or Associate Professor level. Candidates must have a Ph.D. in Biological Sciences Education or in STEM education with an emphasis on biology and demonstrated excellence in teaching and research experience in STEM education.

The successful candidates demonstrated research focus must be in STEM education with an emphasis on biological sciences. Teaching responsibilities of the position include developing innovative instructional approaches to teaching undergraduate biology courses, including knowledge of assessment strategies, teaching and assisting with curriculum development for introductory and core courses in biology and/or departmental service courses. We are also interested in expanding an existing graduate level teaching course to help our graduate students further develop their teaching skills. Candidates applying at the Assistant Professor level will be expected to pursue extramural funding in STEM education. Candidates at the Associate Professor level should have current funding or a history of funding and publications in STEM education. Startup funds are available and salary will be commensurate with experience.

The University of Memphis is a leading metropolitan research institution with over 25 faculty specializing in diverse subdisciplines of the biological sciences. The Department serves approximately 500 majors and over 40 M.S. and Ph.D. students. The W. Harry Feinstone Center for Genomic Research, the interdepartmental Program in Bioinformatics, the Ecological Research Center, the Integrated Microscopy Center, and the Meeman Biological Field Station, are all administered through the department and offer outstanding opportunities for research, teaching, and collaboration.

Candidates should submit a letter of application,

statements of STEM research interests and teaching philosophy, and a CV online at <http://workforum.memphis.edu/>. Applicants should also provide contact information for three references willing to write letters of recommendation, if requested. Review of applications will begin October 6, 2015 and may continue until the position is filled. Inquiries should be directed to Dr. Omar Skalli, Chair, STEM Faculty Position, Department of Biological Sciences, University of Memphis, Memphis, TN 38152, USA (or email oskalli@memphis.edu). The University of Memphis, a Tennessee Board of Regents institution, is an Equal Opportunity/Affirmative Action employer. We urge all qualified applicants to apply for this position. Appointment will be based on qualifications as they relate to position requirements without regard to race, color, national origin, religion, sex, age, disability or veteran status.

“Duane McKenna (dmckenna)”
<dmckenna@memphis.edu>

UMiami EvolutionGenomics

Tenure-Track Assistant/Associate Professor Faculty Positions Department of Biology, University of Miami, Florida

Developmental Biologist: Applications are invited from outstanding scholars engaged in addressing fundamental questions in any area of developmental biology. We welcome applications from candidates who would complement the existing strengths of our department and would be interested in contributing to cross-campus collaborations with other academic units at the University of Miami. The College of Arts and Sciences has plans for a cross-departmental initiative that will focus on biomaterials research, and candidates who would be able to contribute to this initiative are particularly encouraged to apply. Inquiries should be directed to the Search Chair at devbiosearch@bio.miami.edu.

Integrative Biologist: Applications are invited from outstanding scholars engaged in answering fundamental questions about the process of evolution using functional genomic approaches. To promote synergy within the department, candidates able to build on existing departmental strengths in areas that include neuroscience, behavior, tropical biology, ecology, and symbiosis, are especially encouraged to apply. Inquiries should be directed to the Search Chair at ibiosearch@bio.miami.edu.

To be eligible for these tenure-track appointments at the Assistant/Associate Professor level, successful candidates must hold a PhD, have postdoctoral experience, are expected to develop vigorous, externally funded research programs and to teach at both the undergraduate and graduate levels. More information about the Department and University can be found at <http://www.as.miami.edu/biology/>. Applicants should submit a cover letter describing interactions they foresee with existing university research programs, a curriculum vita, two representative publications, a research statement, a teaching statement and the names of at least three references online to <http://content.as.miami.edu/biology-jobs/>. To receive full attention application materials must be received by November 15, 2015.

The University of Miami is an Equal Opportunity Employer, and Females/Minorities/Protected Veterans/Individuals with Disabilities are especially encouraged to apply. Applicants and employees are protected from discrimination based on certain categories protected by Federal law.

Alex C. C. Wilson, PhD Associate Professor

Department of Biology, University of Miami, 1301 Memorial Drive, Coral Gables, FL 33146, USA.

Cox Science Building, Room 253

Lab: 305 284 2003 - Fax: 305 284 3039

“acwilson@bio.miami.edu” <acwilson@bio.miami.edu>

UMichigan EvolutionaryBiol

Ecology or Evolutionary Biology of Fishes or Birds *Review of applications will begin on October 1st 2015*

The Department of Ecology and Evolutionary Biology (<http://www.lsa.umich.edu/eeb/>) and the Program in the Environment (<http://www.lsa.umich.edu/pite>) at the University of Michigan seek applicants for an assistant professor (tenure-track) position in the ecology or evolutionary biology of fishes or birds. While we expect to make a junior hire, outstanding senior applicants will also be considered. This is a university-year appointment with an expected start date of September 1, 2016. We seek outstanding individuals who use comparative fish or bird systems to study any area of ecology or evolutionary biology, and who would offer exceptional courses in the ecology or evolution of either taxon. Also strongly encouraged are research programs

that could take advantage of the world-class biodiversity collections of the Museum of Zoology and/ or utilize the EEB Department's biological field stations. Museum curatorial activities may replace some teaching duties for appropriate candidates.

Applications should include a cover letter, CV, a statement describing your current and future plans for research, a statement of your teaching philosophy and experience, evidence of teaching excellence (if any), statement of curatorial philosophy and experience (if appropriate), and copies of publications (maximum of 4).

To apply, go to <http://www.resources-eeb.lsa.umich.edu/search15/> and arrange to have three letters of recommendation submitted through the same website. Review of applications will begin on *October 1st 2015* and will continue until the position is filled. Women and minorities are strongly encouraged to apply. The University of Michigan is supportive of the needs of dual career couples and is an equal opportunity/affirmative action employer.

L. Lacey Knowles Professor and Curator Dept. of Ecology and Evolutionary Biology Museum of Zoology University of Michigan Ann Arbor MI 48109-1079

"knowlesl@umich.edu" <knowlesl@umich.edu>

UMissouri 2 Evolution

The Division of Biological Sciences at the University of Missouri invites applications to fill two tenure-track/tenured faculty positions at the Assistant or Associate Professor level as the first step in a multi-year hiring plan.

We are particularly interested in candidates who can form collegial and collaborative relationships with other faculty, capitalize on the broad range of research themes within the Division, and integrate perspectives from multiple disciplines. Examples include but are not limited to systems, computational, or imaging approaches to cellular, developmental, or molecular biology or neuroscience; theoretical, modeling, or quantitative approaches to genetics, genomics, or evolution; and quantitative, modeling or molecular approaches to understanding interactions within or among organisms and their environment.

We encourage applications from individuals who demonstrate a commitment to increasing diversity and access to higher education for groups underrepresented in the

sciences.

We offer a competitive salary and start-up package, an active doctoral program with institutional support for students, a highly interactive faculty and outstanding core facilities. Columbia, Missouri, is ranked among the top-ten 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.

To Apply

See http://biology.missouri.edu/faculty_search/ for details.

Prospective applicants can access the job posting by performing an "Advanced Search" using 17732 in the "Job Opening ID" field on the MU HR Careers Web site.

The following documents/materials are required for the application to be complete:

- cover letter - CV - a description of research plans and teaching interests - a diversity statement addressing contributions to diversity through research, teaching, and service - names and contact information of three referees willing to write a letter if solicited

Application materials should be compiled and saved as a single PDF with the applicants name as the file name. You will upload this document when prompted to link your CV.

Review of application materials will begin October 16, 2015. To ensure full consideration, applications should be complete by this date. The position will remain open until filled.

Questions about the position (but not job applications) can be sent to bioscifacultysearch@missouri.edu.

The Division of Biological Sciences has over 40 faculty members with diverse research interests as well as strong interdisciplinary connections.

Considered one of the nation's top-tier institutions, the University of Missouri has a reputation of excellence in teaching and research and is the flagship campus of the four-campus University of Missouri System. It is one of only 34 public universities to be selected for membership in the Association of American Universities. MU offers more than 280 degree programs and is designated as comprehensive doctoral with medical/veterinary by the Carnegie Foundation for the Advancement of Teaching.

Columbia, MO, is ranked as one of the "10 Best College Towns" to live and work. Located two hours from both Kansas City and St. Louis, Columbia is home to the University of Missouri as well as two private colleges and

local, county, and regional medical centers. Columbia has excellent schools, health care, recreational facilities, arts, and cultural opportunities.

An Equal Opportunity/Access/Affirmative Action/Pro Disabled & Veteran Employer

kingeg@missouri.edu

UMontreal PlantEvoDevo

Although the add does not explicitly say so, it is open to evolutionary developmental biologists working on model or non-model systems.

Chris Cameron

Département de sciences biologiques Faculté des arts et des sciences

Professor in Molecular development of plants

The Département de sciences biologiques is seeking applications for a full-time tenure-track position at the rank of Assistant Professor in Molecular development of plants.

- Responsibilities

The appointed candidate will be expected to teach at all three levels of the curriculum, supervise graduate students, engage in ongoing research and publication, and contribute to the academic life and reputation of the University.

- Requirements

§Ph.D. in molecular biology or in a related field
 §Postdoctoral experiences in relevant fields
 §High quality publication record in international journals with very good impact factor
 §Interest in cross-disciplinary research and capacity to develop collaborations with members of the Département de sciences biologiques and other departments of Université de Montréal
 §Excellent abilities to teach at the undergraduate and graduate levels
 §Elaboration of a novel research programme that uses molecular genetic approaches to study plant development for a model system
 §Priority will be given to candidates using advanced imaging approaches and possessing a good knowledge of plant anatomy and morphology
 §Proficiency in French within a reasonable period
 Linguistic Policy : Université de Montréal is a Québec university with an international reputation. French is the language of instruction. To renew its teaching faculty, the University is

intensively recruiting the world's best specialists. In accordance with the institution's language policy [http://secretariatgeneral.umontreal.ca/fileadmin/-user_upload/secretariat/doc_officiels/reglements/-administration/adm10-34_politique-linguistique.pdf], Université de Montréal provides support for newly-recruited faculty to attain proficiency in French.

- Salary

Université de Montréal offers a competitive salary and a complete range of employee benefits.

Salary scale < http://fas.umontreal.ca/-fileadmin/Documents/FAS/fas/Documents/-Affaires_professorales/dossier_personnel/-%C3%89chelle_salariale.pdf >

- Starting Date

On or after June 1st, 2016. - Constitution of application

§The application must include the following documents:
 - a cover letter - a curriculum vitÃ - copies of three recent publications and research - a description of the teaching philosophy - a description of the research programme
 §Three letters of recommendation are also to be sent directly to the Chair of the Département de sciences biologiques by the referees.

- Deadline

Application and letters of recommendation must be sent to the Chair of the Département de sciences biologiques by November 30th, 2015 at the following address :

M. Daniel Boisclair, Chair Département de sciences biologiques Faculté des arts et des sciences Université de Montréal C. P. 6128, succursale Centre-ville Montréal (QC) H3C 3J7

The complete application may also be sent at the following e-mail : daniel.boisclair@umontreal.ca.

For more information about the Department, please consult its website at : <http://www.bio.umontreal.ca/>.
 Â§Confidentiality The Université de Montréal application process allows all regular professors in the Department to have access to all documents unless the applicant explicitly states in her or his cover letter that access to the application should be limited to the selection committee. This restriction on accessibility will be lifted if the applicant is invited for an interview.

Â§Equal Access Employment Program Université de Montréal promotes diversity in its workforce and encourages members of visible and ethnic minorities as well as women, Aboriginal people, persons with disabilities and people of all sexual orientations and gender identities to apply.

Immigration Requirements We invite all qualified candidates to apply at Université de Montréal. However, in accordance with immigration requirements in Canada, please note that priority will be given to Canadian citizens and permanent residents.

Chris Cameron

<https://www.webdepot.umontreal.ca/Usagers/-cameroc/MonDepotPublic/Cameron/index.htm>

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United Arab Emirates U Res Assist Adaptation

United Arab Emirates University

Vacancy Research Assistant

Modelling the Ecological Impacts of Climate Change in Hot Regions

The United Arab Emirates University, in association with the University of Hong Kong, is looking to expand its research into the ecological impacts of climate change on wildlife populations. We are seeking to recruit a Research Assistant who will join a growing team of postgraduate students and researchers active in this area. The successful candidate will help to implement the work of a research grant, conducting statistical analysis of wildlife data, as well as mathematical population modelling, and the synthesis of comparative data. Applicants should have a relevant degree, and preferably a higher degree in a relevant discipline. The United Arab Emirates University operates in English, and language fluency is a requirement. Further details of the position are posted at: <https://jobs.uaeu.ac.ae/> and applications should be submitted through that online system. Review of applications will begin right away, continuing until the position is filled.

The United Arab Emirates is a dynamic, progressive, and culturally diverse country which enjoys one of the highest standards of living in the world. The workforce is highly internationalized and ex-patriates now make up around 90% of the population. The UAEU is a young and ambitious university, developed largely on the US

model. It has established itself as one of the best in the region and is already ranked alongside the top 2% of America's universities.

Dr. David L. Thomson

Associate Professor Biology Department - College of Science UAE University P.O. Box 15551 Al Ain United Arab Emirates

and

School of Biological Sciences University of Hong Kong Kadoorie Biological Sciences Building Pok Fu Lam Road Hong Kong

Tel. (+971) 3 713 6720 / (+971) 3 764 9427 Mobile (+971) 50 901 5470

Skype: d.l.thomson

E-mail: dthomson@hku.hk or d.thomson@uaeu.ac.ae

"dthomson@hku.hk"

"David L. Thomson" <dthomson@hku.hk>

UNorth Carolina Chapel Hill Biodiversity

Assistant Professor in Ecology with a research focus on biodiversity University of North Carolina at Chapel Hill College of Arts and Sciences Department of Biology & the Curriculum in Ecology and Environment

The Department of Biology (<http://bio.unc.edu>) and the Curriculum in Ecology and Environment (CEE; <http://cee.unc.edu/>) invite applications for a tenure-track faculty position in Ecology at the Assistant Professor level with a research focus on biodiversity. Candidates doing innovative work in any area of biodiversity are encouraged to apply. We especially seek to recruit a broadly trained scientist who uses both quantitative and interdisciplinary approaches to answer fundamental questions surrounding the dynamics and maintenance of biodiversity, and how biodiversity is expected to respond in the face of global change.

The University of North Carolina at Chapel Hill is a vibrant center of scientific discovery and innovation, with a commitment to collaboration. Our large research base spans many areas of biology and supports several outstanding graduate programs. We are committed to academic excellence and diversity within the faculty, staff, and student body.

The Department of Biology consists of over 50 faculty engaged in basic and interdisciplinary research, within the department and between other departments and schools at UNC. The Curriculum in Environment and Ecology hosts over 40 faculty from departments across UNC, including Biology, Marine Sciences, and Geography, and both graduate and undergraduate students participate in research and educational opportunities. UNC faculty, postdocs and graduate students also routinely interact with colleagues at nearby Duke and North Carolina State Universities, institutions in Research Triangle Park, Highlands Biological Station, and the Institute for Marine Sciences, and have access to a state-of-the-art High-Throughput Sequencing Facility. The quality of life in North Carolina's Triangle area is consistently rated among the highest in the nation. UNC was listed as one of the top 20 "Best Places to Work in Academia" in 2013 by The Scientist magazine.

Qualifications and Experience: All candidates must have earned a Ph.D. or equivalent degree. Successful candidates are expected to be committed to teaching at the undergraduate and graduate levels. The successful candidate will also build an active research group, secure competitive external funding, and participate actively in the scientific community at UNC-CH. In addition to creativity and excellence in research, successful candidates should also demonstrate a commitment to diversity and inclusion in higher education.

The University of North Carolina at Chapel Hill is an equal opportunity and affirmative action employer. All qualified applicants will receive consideration for employment without regard to age, color, disability, gender, gender expression, gender identity, genetic information, national origin, race, religion, sex, sexual orientation, or status as a protected veteran. To apply: See <http://unc.peopleadmin.com/postings/84427>. Submit a cover letter, curriculum vitae, a research statement not more than 3 pages in length, a teaching statement not more than 2 pages in length, and the names and contact information for four references in the cover letter. Review of applications will begin November 1, 2015. The position will be effective on or after July 1, 2016.

For further details contact Cottie Pasternak at cpaster-nak@bio.unc.edu.

<tjv@bio.unc.edu>

UNotreDame Evolution

Multiple Faculty Positions in Ecology, Evolution, or Environmental Change

The Department of Biological Sciences at the University of Notre Dame invites applications for multiple, open-rank, tenure-track faculty positions that will enhance existing excellence in ecology, evolution, and environmental change. We are searching broadly for creative and collaborative individuals (1) working at any spatial scale, from local to global, (2) studying any level of biological organization, from genes to ecosystems, and (3) using any mode of inference, from empirical to theoretical. Applicants should demonstrate research excellence that crosses traditional disciplinary boundaries; ongoing growth in the department will emphasize new hires that use quantitative and/or integrative approaches to study biological processes. Successful candidates will benefit from Notre Dame's 3000-ha field station which is home to NEON's Great Lakes domain (<http://underc.nd.edu>), superb on-campus analytical facilities (e.g., <http://www.cest.nd.edu>, <http://genomics.nd.edu>), cross-disciplinary interaction through the Environmental Change Initiative (<http://eci.nd.edu>), and a unique Interdisciplinary Graduate Training Program in Environment and Society (<http://reilly.nd.edu/globes/>).

Successful candidates will be expected to contribute to Notre Dame's exemplary teaching program, engage students in research, and participate in a dynamic and integrative departmental culture. For additional information on our outstanding programs and facilities, see <http://biology.nd.edu>. Positions include an attractive salary, generous start-up package, and laboratory space tailored to the applicant's needs. Qualified individuals should submit online a cover letter, curriculum vitae, separate statements of research and teaching interests, and the names of three referees at the following web site: <http://apply.interfolio.com/31403>. Review of applications will commence on 15 October 2015 and continue until suitable candidates are identified. The University of Notre Dame, an international Catholic research university, is an equal opportunity employer committed to an excellent and diverse faculty and student body.

Kara L. Primmer, Ph.D. Interim Manager, Department of Biological Sciences Grants Program Manager, Notre Dame Research 940 Grace Hall University of Notre Dame Notre Dame, IN 46556 (574)631-2178

Kara Primmer <Kara.Huegel.2@nd.edu>

UOklahoma 2 EvoBiol

Could you please post this on EvoDir? This is highly attractive to Evolutionary Ecologists.

Cluster Hire in Geographic Ecology: an Aquatic Ecologist and a Geographic Ecologist at the rank of Assistant, Associate, or Full Professor

<http://GE.ou.edu> The Department of Biology at the University of Oklahoma invites applications for two tenured/tenure-track faculty positions at any rank, beginning in fall 2016, as part of a larger cluster hire initiative in geographic ecology. We are searching for creative, collaborative thinkers who use integrative approaches to address fundamental ecological questions at regional to global scales. Our ultimate goal is to enhance our expertise in geographic and aquatic ecology toward predicting ecological and evolutionary responses to global change. The search is open to theoretical, lab, and field biologists working on any taxa. In this phase of the cluster hire, we seek:

P A Geographic Ecologist (GE) who studies phenomena at multiple spatial scales toward understanding large-scale patterns and processes. Innovators in biogeography, macroecology, bioinformatics, and global ecology are especially encouraged to apply.

P An Aquatic Ecologist (AE) who studies freshwater systems toward predicting their future in a changing environment. Innovators in biogeochemistry, ecological networks, ecological genomics, river- reservoir systems, and land-water interactions are especially encouraged to apply.

We are particularly interested in candidates who combine some or all of the following three approaches in their work. The first is development and/or testing of models and theory that connect phenomena at scales from local to global. The second is an integrative use of dataXfrom gene frequencies to biogeochemistry, species distributions to climate past and future, functional traits to landscapesXto advance theory and identify novel patterns and processes. The third is a desire to apply this research to ameliorating outstanding ecological problems, including climate change, biodiversity loss, dwindling water supplies, and the degradation of ecosystem services.

The University of Oklahoma is committed to building

an international center of excellence exploring the geographic ecology of our evolving biosphere. Successful candidates will join colleagues across campus, including cluster hires in the EPSCoR initiative Adapting socio-ecological systems to increased climate variability. Our shared goal is to build theoretical and empirical bridges across the sciences, to predict the interplay between biotic and climatic changes, and to better steward our natural resources and services. Join us.

Candidates must have a Ph.D. degree and a record of outstanding achievement as evidenced by publications. Preferred candidates will have a promising (assistant professor) or externally funded (associate/full professor) research program and the ability to lead interdisciplinary, multi-investigator projects across a range of geographic scales. Each individual will be expected to provide excellent training for graduate students and postdocs, and contribute to undergraduate and graduate teaching (one course per semester) in the department.

How to Apply Applicants should submit a cover letter indicating the position(s) (AE and/or GE) to which they are applying, a full curriculum vitae, research and teaching statements, and selected reprints/preprints as PDF files to Chair, Geographic Ecology Search Committee, at biologyjobs@ou.edu<<mailto:biologyjobs@ou.edu>>. Applicants should also arrange to have three signed letters of reference sent to biologyjobs@ou.edu<<mailto:biologyjobs@ou.edu>> or Department of Biology, 730 Van Vleet Oval, University of Oklahoma, Norman, OK 73019, USA. Applicants at the rank of Associate Professor or Professor may submit names and contact information for three references in lieu of letters. Visit us at <http://biology.ou.edu>. Screening of candidates will begin 1 October 2015 and will continue until the positions are filled.

The University of Oklahoma is an Affirmative Action/Equal Opportunity employer and encourages diversity in the workplace. Protected veterans and individuals with disabilities are encouraged to apply.

Dr. Ingo Schlupp Presidential Professor of Biology Associate Dean for Research College of Arts and Sciences <http://www.ou.edu/schlupp/> Tel.: 405 325 2077 <http://inhabitingtheanthropocene.com/> "Schlupp, Ingo B." <schlupp@ou.edu>

UOklahoma PlantSystematicsCurator

PLANT SYSTEMATIST/CURATOR POSITION

Department of Microbiology and Plant Biology (MP-BIO) and The Oklahoma Biological Survey (OBS) at the University of Oklahoma, Norman, Oklahoma, invite applicants for a tenured or tenured-track Faculty Position in Plant Biology and Curator of the Bebb Herbarium. The position will be at the rank of Assistant Prof., Associate Prof., or Professor. The position is a 12-month, joint appointment in MPBIO and the OBS (one-half time in each unit) with tenure awarded jointly beginning July 1, 2016. We are committed to achieving a diverse workforce.

We seek a plant biologist with strong curatorial skills and a research program focusing on the systematics and conservation of plants. Areas of research interests include: comparative genomics, population genetics, conservation biology, and mechanisms of diversification. The successful candidate will utilize collection-based systematic techniques, have experience in fieldwork and natural history collections, and will demonstrate cross-disciplinary research capability. Responsibilities will include: (1) oversight and curation of a vascular plant collection of 250000+ specimens (in conjunction with a collections manager); (2) contributing to undergraduate and graduate teaching, including courses such as plant taxonomy and specialized courses in areas of expertise; (3) developing and maintaining an extramurally funded research program, and (4) conducting public outreach. The OBS is a state agency and a research department at OU with a mission to gather, analyze and disseminate information regarding the biota and ecological communities within the state and associated geographical areas.

Candidates must have: (1) A Ph.D. in Plant Biology or related area, herbarium research experience with strong record of publication and external funding. (2) Demonstrate a solid, collection-based research program in the systematics, biogeography, conservation and biology of plants. (3) Evidence of and commitment to obtain extramural funding to support research and collections. (4) Commitment to excellence and innovation in the teaching and mentoring of graduate and undergraduate students. (5) Contribute to undergraduate and graduate teaching, including courses such as plant systematics and flowering plants, as well as specialized classes in areas of expertise. (6) Commitment to contributing to

the service activities of the Oklahoma Biological Survey, Department of Microbiology and Plant Biology, College of Arts and Sciences, University, and to the profession.

The University of Oklahoma (OU) is a Carnegie-R1 comprehensive public research university known for excellence in teaching, research, and community engagement, serving the educational, cultural, economic and health-care needs of the state, region, and nation from three campuses: Norman, Health Sciences Center in Oklahoma City and the Schusterman Center in Tulsa. OU enrolls over 30,000 students and has more than 2700 full-time faculty members in 21 colleges. In 2014, OU became the first public institution ever to rank #1 nationally in the recruitment of National Merit Scholars, with 311 scholars. The 277-acre Research Campus in Norman was named the No.1 research campus in the nation by the Association of Research Parks in 2013. Norman is a culturally rich and vibrant town located just outside Oklahoma City. A with outstanding schools, amenities, and a low cost of living, Norman is a perennial contender on 'best place to live' rankings. Visit <http://ou.edu/provost/flipbook> and < <http://www.ou.edu/publicaffairs/oufacts.html> > for more information.

Application Process. Confidential review of applications will begin October 1, 2015 and continue until both positions are filled. Interested individuals are invited to submit a letter of application, current curriculum vitae, up to five representative publications, a statement of research plans, as well as a statement of teaching interests and philosophy. Three to five letters of reference should be sent directly to mpbiofacultysearch@ou.edu. To apply, please visit the University's Human Resources web site at <https://jobs.ou.edu> and search listings for requisition number *23222*. *ALL APPLICANTS MUST APPLY ONLINE.*

For information on the Plant Systematist/Curator Position: Dr. Bruce Hoagland, Professor, bhoagland@ou.edu. Attn. Plant Systematist/Curator Search Committee. 770 Van Vleet Oval, Norman, Oklahoma, 73072-7029. Visit us at mpbio.ou.edu and biosurvey.ou.edu

/The University of Oklahoma is an Affirmative Action/Equal Opportunity employer and encourages diversity in the workplace. Protected veterans and individuals with disabilities are encouraged to apply. See <http://www.ou.edu/eoo> > for more information./

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UOregon Evolutionary Genetics

The University of Oregon Institute of Ecology and Evolution (<http://ie2.uoregon.edu>) and the Department of Biology invite applications for a tenure-related position (Assistant Professor) in evolutionary biology. We are particularly interested in candidates who use statistical, genomic and/or phylogenetic approaches to study fundamental evolutionary processes at the molecular level, but candidates with exemplary records in other areas of evolutionary biology are also invited to apply. The successful candidate will have an outstanding research program and a commitment to excellence in teaching at the undergraduate and graduate levels. Ph.D. required. Interested persons should apply online to the University of Oregon IE2 SEARCH at <https://academicjobsonline.org/ajo/jobs/6043>. Applicants should submit a cover letter, a curriculum vitae, statement of research accomplishments and future research plans, a description of teaching experience and philosophy, and three letters of recommendation. Submission of up to 3 selected reprints is encouraged. To be assured of consideration, application materials should be uploaded by October 1, 2015, but the search will remain open until the position is filled.

The University of Oregon is an equal opportunity, affirmative action institution committed to cultural diversity and compliance with the ADA. The University encourages all qualified individuals to apply, and does not discriminate on the basis of any protected status, including veteran and disability status.

<http://jobs.uoregon.edu/unclassified.php?id=3D5293>
Patrick C. Phillips, Ph.D. Professor of Biology Institute of Ecology and Evolution Email: pphil@uoregon.edu
Phone: (541) 346-0916 | FAX (541) 346-2364 Address: 5289 University of Oregon Eugene, OR 97403-5289 USA
Web: Lab <http://www.uoregon.edu/~pphil> IEE <http://evolution.uoregon.edu>

“pphil@uoregon.edu” <pphil@uoregon.edu>

UPennsylvania Evolutionary Ecology

Tenure-track faculty position in Ecology at The University of Pennsylvania.

The Department of Biology at the University of Pennsylvania invites applications for a tenure-track faculty position in Ecology. The appointment will be at the level of Assistant Professor. We are searching broadly for a community or ecosystem ecologist working at any spatial scale, from local to global, and using theoretical and/or empirical approaches. Areas of interest include, but are not limited to, mechanisms of community assembly, coexistence, diversity, adaptation and the interplay between biotic and abiotic processes in the face of climate and land-use change. We welcome applicants working on any domain of life, from micro- to macroscopic.

We are especially interested in candidates who utilize novel approaches that span levels of biological organization or transcend traditional boundaries.

Penn's Department of Biology has a long-standing tradition of maintaining an integrated research and educational program across all basic biological sciences, from Ecology and Evolution, Plant Sciences, Molecular and Cellular Biology, Genomics, to Neuroscience. The Department values interdisciplinary research, collaboration, and collegiality, and has a vision emphasizing Life in its Natural Context. Candidates are expected to have demonstrated excellence and productivity in research and will be expected to excel in undergraduate and graduate teaching.

Interested candidates should submit materials online at <http://facultysearches.provost.upenn.edu/postings/-606> and include a curriculum vitae, concise statements of research and teaching interests, a short annotated description of up to five publications, and the name and contact information of at least three referees. Recommenders will be contacted by the University with instructions on how to submit a letter to the website. Review of applicants will begin September 11, 2015 and continue until the position is filled.

The Department of Biology is strongly committed to Penn's Action Plan for Faculty Diversity and Excellence and to creating a more diverse faculty (for more information see: <http://www.upenn.edu/almanac/volumes/-v58/n02/diversityplan.html>). The University of Pennsylvania is an equal opportunity employer. Minorities,

women, individuals with disabilities, and protected veterans are encouraged to apply.

Joshua B. Plotkin Professor of Biology University of Pennsylvania <http://mathbio.sas.upenn.edu/> "jplotkin@sas.upenn.edu" <jplotkin@sas.upenn.edu>

USouthernCalifornia MarineMetazoanAdaptation

Tenure-Track Assistant Professor Marine Metazoan Adaptation University of Southern California

The Marine & Environmental Biology (MEB) section of the Department of Biological Sciences in the Dana and David Dornsife College of Letters, Arts and Sciences at the University of Southern California (Los Angeles, California) invites applications for a tenure-track Assistant Professor in Marine Metazoan Adaptation with an anticipated start date of August 2016. We seek a junior scholar with expertise in multi-cellular marine organisms who uses experimental methods to understand the adaptation of marine metazoans to environmental changes at the molecular, sub-cellular, organ system, whole-organism, and/or population level. Research areas of interest include but are not limited to physiology, development, genetics, genomics, biomechanics, and/or bio-physical modeling. The successful candidate will be expected to participate in undergraduate and graduate teaching and to establish a vigorous, externally funded research program. Applicants should have a doctoral degree in a relevant field of study. Further information about the MEB program and faculty can be found at <https://dornsife.usc.edu/bisc/meb/>. Applicants should submit a cover letter, curriculum vitae, teaching and research statement, along with the names of three individuals who will be contacted by USC for references. In order to be considered for this position, applicants are required to submit an electronic USC application; follow this job link or paste in a browser: <http://jobs.usc.edu/postings/53702>. Consideration of complete applications will begin November 15, 2015.

USC is an equal-opportunity educator and employer, proudly pluralistic and firmly committed to providing equal opportunity for outstanding persons of every race, gender, creed and background. The University particularly encourages women, members of underrepresented groups, veterans and individuals with disabilities to apply. USC will make reasonable accommodations for qualified individuals with known disabilities unless doing

so would result in an undue hardship. Further information is available by contacting uschr@usc.edu.

edmandss@gmail.com

UTennessee 4 EvolutionaryBiol

Multiple Hires in Ecology & Evolutionary Biology, University of Tennessee, Knoxville

The Department of Ecology and Evolutionary Biology at the University of Tennessee, Knoxville, is pleased to announce the four faculty searches described below as part of an integrated and dynamic growth stage for the department. We seek outstanding scholars to fill the following tenure track positions:

Conservation Biology, Assistant Professor. We invite applications from candidates working on any aspect of ecology or evolutionary biology relevant to the conservation of biodiversity.

. <http://eeb.bio.utk.edu/conservationbiology/>. ConservationBiologySearch@utk.edu

Evolutionary Biology, Assistant Professor. We invite applications from individuals with research interests at the cutting edge of any area of evolution.

. <http://eeb.bio.utk.edu/evolutionary-biology/>. EvolutionaryBiologySearch@utk.edu

Herbarium Director, Assistant or Associate Professor. We seek to fill a tenure-track position in any area of ecology and evolutionary biology, where a responsibility of this position will be supervision and further development of the superb UTK herbarium.

. <http://eeb.bio.utk.edu/herbariumdirector/>. HerbariumSearch@utk.edu

Spatial Biology, Assistant Professor. (Preliminary announcement pending budgetary and central administrative approval). We seek to fill a tenure-track position in spatial biology in EEB. The successful candidate will also be an affiliated faculty member of the National Institute for Mathematical and Biological Synthesis (NIMBioS).

We welcome applicants who can use our extensive biodiversity collections and collaborate with scientists at nearby Oak Ridge National Lab and at NIMBioS. Knoxville is a vibrant, affordable, family-friendly community benefiting from a wealth of nearby natural areas (Great Smoky Mountains National Park, National

Forests, State Parks, etc). The University is the State of Tennessee's research intensive, land grant institution. More details of the roles, expected and preferred qualifications, and of the application process, for each position are available through the provided links or on request from AssocHead_EEB@utk.edu. Applications for these positions will be reviewed beginning Oct. 31, 2015, and will continue until filled, with a position start date of 1 August 2016.

All qualified applicants will receive equal consideration for employment and admissions without regard to race, color, national origin, religion, sex, pregnancy, marital status, sexual orientation, gender identity, age, physical or mental disability, or covered veteran status. Eligibility and other terms and conditions of employment benefits at The University of Tennessee are governed by laws and regulations of the State of Tennessee, and this non-discrimination statement is intended to be consistent with those laws and regulations. In accordance with the requirements of Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Act of 1990, The University of Tennessee affirmatively states that it does not discriminate on the basis of race, sex, or disability in its education programs and activities, and this policy extends to employment by the University. Inquiries and charges of violation of Title VI (race, color, and national origin), Title IX (sex), Section 504 (disability), ADA (disability), Age Discrimination in Employment Act (age), sexual orientation, or veteran status should be directed to the Office of Equity and Diversity (OED), 1840 Melrose Avenue, Knoxville, TN 37996-3560, telephone (865) 974-2498. Requests for accommodation of a disability should be directed to the ADA Coordinator at the Office of Equity and Diversity.

"aarmswor@utk.edu" <aarmswor@utk.edu>

UTexas Arlington EvolBiol

The Department of Biology at the University of Texas at Arlington (<http://www.uta.edu/biology/>) invites applications for multiple tenure-track faculty positions at the level of Assistant or Associate Professor. Research areas of interest include fundamental questions related to microbiomes and complex microbial communities, host-pathogen interactions, epidemiology, cellular biology, developmental biology, genetics, and global change biology. Approaches using cutting edge genomic, proteomic, bioinformatic and statistical modeling techniques are particularly attractive. Successful candidates will have a doctoral degree in a relevant field and will be expected to develop a nationally recognized, extramurally funded research program, as well as teach at the undergraduate and graduate (Master's and Ph.D.) levels. Start-up funds, salaries, and teaching loads are highly competitive.

The Department and University have numerous resources including state-of-the-art labs, an Animal Care Facility, a Genomics Core Facility, a Center for Human Genomics, and the newly established Shimadzu Institute for Research Technologies - a major partnership between UT Arlington and Shimadzu Scientific Instruments that offers extensive resources for imaging, proteomics and analytical chemistry. The Department also benefits from access to core UT-system genomics and computational resources at UT Southwestern Medical Center and the Texas Advanced Computing Center (TACC) - one of the leading advanced computing centers in the U.S. Excellent opportunities exist at UT Arlington and in the Dallas-Fort Worth Metroplex for collaborations with researchers in ecology, evolution, genomics, biochemistry, and biomedical sciences.

Arlington is a city of approximately 365,000 and is conveniently located in the center of the Dallas-Fort Worth Metroplex. Within a 25-mile radius of the center of Arlington is a workforce of over two million people. The city has 82 public parks, including River Legacy Parks, a 1,300-acre oasis on the Trinity River in the heart of north Arlington. Arlington is the home of the Dallas Cowboys Stadium, the Texas Rangers Ballpark, and Six Flags Over Texas. Cost of living is relatively low for a major metropolitan area. The Dallas-Fort Worth International Airport is the fourth largest airport in the US. More information on the city of Arlington can

be found at www.experiencearlington.org. Applicants must apply by submitting application materials in PDF format to biosearch@uta.edu. Applicants should include in their application: 1) curriculum vitae, 2) summary of current and proposed research (three pages), 3) teaching interests, and 4) names and email addresses of four references. Review of applications will begin immediately and continue until the positions are filled. A criminal background check will be conducted on finalists.

As an equal employment opportunity and affirmative action employer, it is the policy of The University of Texas at Arlington to promote and ensure equal employment opportunity for all individuals without regard to race, color, religion, sex, national origin, age, sexual orientation, gender identity, disability, or veteran status.

Paul Chippindale & Sophia Passy, search co-chairs

“paulc@uta.edu” <paulc@uta.edu>

UTexas El Paso Population Genetics

ASSISTANT PROFESSOR - POPULATION GENETICS The University of Texas at El Paso, College of Science, Department of Biological Sciences

POSITION DESCRIPTION: The Department of Biological Sciences at the University of Texas at El Paso (UTEP) invites applications for a tenure-track assistant professor position for a population geneticist. The anticipated appointment date is fall 2016 or earlier. The successful candidate is expected to establish an extramurally funded research program; to teach and mentor undergraduate, masters', and doctoral students; and to serve as a member of the Ecology and Evolutionary Biology (EEB) core faculty. Candidates' research should have a strong potential for collaboration with existing EEB faculty and be able to attract extramural funding. Researchers who focus on desert biota and/or use next-generation sequencing techniques are encouraged to apply.

ABOUT THE DEPARTMENT: The Department of Biological Sciences is among the most productive departments at UTEP and contributes to interdisciplinary programs in Environmental Science, Environmental Science and Engineering, Bioinformatics and Computational Science. An EEB doctoral program has recently been established. Existing faculty expertise includes ecological, evolutionary, biomedical, and education research fields. Core facilities include capacities for DNA

Next-Gen sequencing, bioinformatics, and statistics; Biodiversity Collections; a green roof; and a greenhouse. The department also manages the 38,000 acre Indio Mountains Research Station. Current EEB faculty conduct research throughout the Chihuahuan Desert, Arctic, Congo, Southeast Asia, and Central and South America. More information is available at the Department of Biological Sciences website.

ABOUT UTEP AND EL PASO: The University of Texas at El Paso and its “access and excellence” mission are redefining public higher education not only in Texas, but also across the nation. The University’s extraordinary success is validated by Washington Monthly magazine’s 2014 ranking of UTEP as one of the Top 10 universities in the nation. For the third consecutive year, UTEP was ranked #1 in the social mobility category for its success in helping students achieve their dreams. Since opening its doors along the U.S.-Mexico border in 1914 as the Texas State School of Mines and Metallurgy, UTEP has enabled generations of students to pursue their goals through higher education in one of the largest binational communities in the world. Over the past century, the University’s enrollment has grown from 27 mining students to more than 23,000 undergraduate and graduate students, and that number continues to increase annually. UTEP offers a broad array of degree programs - 72 bachelor’s, 73 master’s, and 20 doctoral degrees taught by outstanding faculty who have been recognized for their commitment to student success. The University’s record of receiving extremely competitive grant awards reflects the quality of UTEP’s faculty and their sustained commitment to excellence while also maintaining an academic environment dedicated to addressing the educational needs of students, many of whom are the first in their families to attend college.

REQUIRED QUALIFICATIONS: Applicants must have a Ph.D. or equivalent degree, postdoctoral research experience, and a strong record of research accomplishments.

APPLICATION PROCEDURES: Review of applications will begin immediately and will continue until the position is filled. Candidates should send a letter of interest, curriculum vitae, statement of research interest, a brief description of teaching and service philosophy, and complete contact information for at least three references to the following address:

Population Geneticist Search Committee Chair
Department of Biological Sciences
University of Texas at El Paso
500 West University Avenue
El Paso, TX 79968

Email: ewalsh@utep.edu

Hiring decisions are based on budget approval.

The University of Texas at El Paso is an Equal Opportu-

nity/Affirmative Action Employer. The University does not discriminate on the basis of race, color, national origin, sex, religion, age, disability, genetic information, veteran status, sexual orientation, or gender identity in employment or the provision of services.

“mlmoody@utep.edu” <mlmoody@utep.edu>

UToronto Scarborough Teaching Evolution

Posted on: September 23, 2015 Application Due Date: November 30, 2015

Assistant Professor, Teaching Stream - Ecology and Evolutionary Biology Department of Biological Sciences University of Toronto Scarborough

The Department of Biological Sciences, University of Toronto Scarborough invites applications for a full-time, teaching-stream faculty appointment in Ecology and Evolutionary Biology. The appointment will be at the rank of Assistant Professor, Teaching Stream and will commence July 1, 2016. Applicants must have a Ph.D. by the date of appointment or shortly thereafter. A breadth of training in ecology and evolutionary biology, with the ability to teach a wide range of courses in these subject areas is a necessity. Expertise in conservation biology and biodiversity would be an additional asset.

We seek enthusiastic and innovative individuals pursuing an award-winning career in university teaching. The successful candidate will have demonstrated a commitment to and evidence of excellence in teaching, and will possess strong communication and interpersonal skills. Excellence in teaching can be demonstrated through teaching accomplishments, letters of reference and the teaching materials submitted as part of the application.

Faculty in the teaching stream are expected to combine their expertise in the discipline with best practices in teaching to create rich, innovative learning environments that embrace diversity, promote equity, and integrate research in a manner that challenges students to develop skills and ethics to be leading citizens. Salary will be commensurate with qualifications and experience. The successful candidate will be expected to perform standard professional and administrative activities typical of an academic department and to collaborate with colleagues on program development. Qualified candidates are invited to apply by clicking on the link below <https://utoronto.taleo.net/careersection/10050/->

[jobdetail.ftl?job=1501224](http://utoronto.taleo.net/careersection/10050/-jobdetail.ftl?job=1501224) . Applications must include a CV, a sample of teaching materials, and a statement of career goals, teaching interests and teaching experience. These documents should be combined into a single PDF file and must be submitted online. Submission guidelines can be found at: <http://uoft.me/how-to-apply>. Applicants must also arrange that letters of reference from at least three referees familiar with the candidate's teaching and research expertise be submitted to the department by e-mail to biologygeneral@utsc.utoronto.ca. These letters must explicitly consider the applicant's teaching strength. Applications lacking the minimum three letters of reference by the closing date will not be considered. All materials must be received by November 30, 2015.

For more information about the Department of Biological Sciences, please visit <http://www.utscc.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.

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

Christine Gray <christine.gray@utoronto.ca>

VirginiaTech Plant Evolution

here is the advertisement. We believe it should be of interest to evolutionary biologists.

ASSISTANT PROFESSOR POSITION IN PLANT SCIENCES

The Department of Biological Sciences at Virginia Tech invites applications for a tenure-track Assistant Professor position in Plant Sciences starting in the Fall 2016 semester. Candidates are sought who use contemporary molecular and genomics tools to address fundamental ecological and evolutionary questions in plant systems. Candidates with a research focus on interactions between plants and abiotic or biotic factors will be of particular interest. Preference will be given to applicants with research areas that complement existing strength in Molecular Biology and Ecology/Evolution in the Department and the Translational Plant Sciences (TPS) interdepartmental research and

graduate program (<http://www.molplantsci.org.vt.edu>). The successful applicant will have the opportunity to participate in The Global Change Center (<http://www.globalchange.vt.edu/>). The Department and the Virginia Tech campus provide excellent research and support facilities for molecular biology, genomics, proteomics, metabolomics, and bioinformatics including the Virginia Bioinformatics Institute (<https://www.vbi.vt.edu/>).

The successful candidate should have the potential to develop and maintain an extramurally-funded independent research program, a commitment to research and teaching excellence, and a demonstrated interest in collaborative research. Applicants must have earned a doctorate in Biology or a related field and preference will be given to individuals with post-doctoral research experience.

For additional information and to submit an application, go to www.jobs.vt.edu (posting #TR0150127). Virginia Tech has a strong commitment to the principles of diversity and inclusion. In that spirit, we seek a diverse candidate pool including women, minorities, veterans, first-generation University graduates, and people with disabilities. Questions regarding the position can be directed to Dr. Dorothea Tholl, Chair, Plant Sciences Search, Department of Biological Sciences, 409 Latham Hall, Virginia Tech (0309), Blacksburg, VA 24061, Tel: (540) 231-4567, Email: tholl@vt.edu. Review of applications will begin on October 19, 2015 and continue until the position is filled.

Virginia Tech does not discriminate against employees, students, or applicants for admission or employment on the basis of race, gender, disability, age, veteran status, national origin, religion, sexual orientation, or political affiliation. Anyone having questions concerning discrimination should contact the Office for Equity and Access.

Dorothea Tholl, PhD Associate Professor Co-Chair Gordon Research Conference on Plant Volatiles (2016) Department of Biological Sciences 409 Latham Hall, 220 Agquad Lane Virginia Tech, Blacksburg, VA 24061 phone: +1-540-231-4567 fax:+1-540-231-3347 e-mail: tholl@vt.edu <http://www.biol.vt.edu/faculty/tholl/index.html> Dorothea Tholl <tholl@vt.edu>

WakeForestU Genomics

ASSISTANT PROFESSOR OF GENOMICS

The Department of Biology of Wake Forest University seeks a tenure-track faculty member who uses modern genomic methods to address evolutionary, ecological, or functional questions. This hire will be at the rank of assistant professor. We seek a faculty member who is a teacher-scholar capable of balancing undergraduate and graduate teaching with a thriving extramurally-funded research program. Our department engages the breadth of biology and will consider applicants working on any taxon, community, or ecosystem. Those whose research is driven largely by questions drawn from an applied medical perspective are less likely to be a good match for this position. Teaching responsibilities will include one or more of the following: an introductory level course in Genetics & Molecular Biology OR Comparative Physiology; an upper-level undergraduate course in applicant's area of expertise (microbiology would be welcome but not required); and participation in a quantitative skills course for our M.S. and Ph.D. students (e.g., advanced statistics, bioinformatics, modelling). For more information and to apply see <http://college.wfu.edu/biology/>. Review of applications will begin on October 19, 2015. Applications should include a cover letter, curriculum vitae, separate statements of research interest and teaching philosophy, and contact information for three references who will be available in November to respond to our requests for letters. Please direct questions to the Chair of the Search Committee, Professor David Anderson (genomics@wfu.edu).

Founded in 1834, Wake Forest University is a private university located in Winston-Salem, North Carolina that combines a small (<5000 undergraduates) liberal arts collegiate university with 2,200 graduate students in schools of medicine, law, business, divinity, and arts and sciences. The Department of Biology awards both Masters and Ph.D. degrees, and our graduate student population of ~40 is mostly doctoral students. The quality of the undergraduate teaching environment is outstanding, and our faculty combine commitment to that mission with nationally and internationally recognized leadership in research. Teaching loads are consistent with our high expectations for research, and Wake Forest ranks in the top 30 of all U.S. universities in U.S. News & World Report's Guide to America's Best Colleges and Universities. A variety of opportunities exist for collaboration with research groups in ecology/evolution and physiology/behavior, and through interdisciplinary centers, including the Center for Energy, Environment, and Sustainability and the Center for Molecular Communication and Signalling. The University has a deep institutional commitment to public service and engagement with the world, as indicated by the motto 'Pro Humanitate.' For quick facts about the University, go to <http://->

www.wfu.edu/visitors/quickfacts.html . Winston-Salem is part of the beautiful Piedmont Triad metropolitan region, which has a population of more than 1.5 million and is listed among the 35 best places to live in North America by Cities Ranked and Rated. Known as the state's 'City of the Arts,' Winston-Salem offers a vast array of arts experiences ranging from music venues to galleries to theatre and film festivals. The city is ranked among the top 50 US cities for affordability on national surveys. Winston-Salem is 70 minutes from the Blue Ridge of the Appalachian Mountains and 4 hours from the Atlantic Ocean. Other prominent universities are approximately 90 minutes away in the Research Triangle area.

Wake Forest University welcomes and encourages diversity and inclusivity, and seeks applicants who are committed to teaching and research in a multicultural environment. Wake Forest seeks to recruit and retain a diverse workforce to maintain the excellence of the University, and to offer students richly varied disciplines, perspectives, and ways of knowing and learning.

"Zeyl, Clifford" <zeylcw@wfu.edu>

WayneStateU ResAssoc FishEvolution

The Dowling lab in the Department of Biological Sciences at Wayne State University invites applications for a Research Associate. The individual will assist with multiple aspects of research focused on evolution and conservation of fish biodiversity, with focus on species from the southwestern United States. Applicants are expected to have a B.Sc. degree or higher in biology, with laboratory experience required. The principal duties of the individual pertain to the collection and organization of data and lab management. Applicants should be proficient with basic molecular procedures (DNA/RNA extraction, PCR, electrophoresis, molecular cloning, sequencing) with knowledge of fragment analysis and genomic techniques a plus. Precision and reliability are essential. Duties will also include contributing to lab management such as oversight of undergraduate student workers, safety awareness, ordering, chemical inventories and the repair of minor equipment. Computer literacy is expected.

Salary will be commensurate with experience. Addi-

tional information on the position and instructions for application are provided at the following web address:

https://jobs.wayne.edu/applicants/jsp/shared/-Welcome_css.jsp Posting is job number 041277 under Research Assistants/Associates.

Thomas Dowling

Department of Biological Sciences 5047 Gullen Mall
Wayne State University Detroit MI 48202

"thomas.dowling@wayne.edu"

<thomas.dowling@wayne.edu>

YaleU EvolutionaryPhysiology

YALE UNIVERSITY

Faculty Position in Physiology and Functional Biology

The Department of Ecology and Evolutionary Biology at Yale University invites applications for an Assistant Professor in physiology and functional biology. Focal research areas could include comparative, molecular, evolutionary, or ecological physiology, functional biology, biomechanics, or biomaterials science. We seek applicants who use creative approaches to address fundamental questions in organismal biology and who are eager to contribute to undergraduate and graduate teaching in physiology and associated fields. A record of outstanding achievement and a promising research program are more important than the specific research area.

Interested candidates should submit online a CV, three relevant reprints or manuscripts, brief research and teaching statements, and three letters of reference at <https://apply.interfolio.com/31183> .Review of applications will begin on 1 November 2015. The search will remain open until the position is filled.

Yale University is an Equal Opportunity/Affirmative Action Employer. Yale values diversity among its students, staff, and faculty and strongly welcomes applications from women, persons with disabilities, protected veterans and under-represented groups.

Paul E. Turner Chair of Ecology and Evolutionary Biology Yale University New Haven, CT 06520 (203) 432-5918 <http://www.yale.edu/turner/> "Turner, Paul" <paul.turner@yale.edu>

Other

Animal Genomics TestDataset	98	SMBE proposals 2019	101
Apologies	98	Software Treefinder LicenseChange	101
ESEB outreach	98	SSB callProposals AustinTX	101
Phyloseminar ArneMoors Sep23	99	Thaumetopoeinae samples	102
PhysBiocZool EarlyLifeEffects	99	UToulouse EvolutionaryBiology Internship	102
Primate phylogenetic markers	100		
Reticulate Evolution	100		

Animal Genomics TestDataset

To facilitate phylogenetic analyses of animals and provide a test dataset for methods development, we will make a prepopulated database available for broadly sampled animal genomes in our automated phylogenomics tool Agalma (doi: 10.1186/1471-2105-14-330 <<https://www.google.com/search?client=3Dsafari&rls=3Den&q=3Ddoi:+10.1186/1471-2105-14-330&ie=UTF-8&oe=UTF-8>>). The intent is to include all published high quality genomes of animals and other members of Holozoa, except in Arthropoda and Vertebrata (which are much more densely sampled than other clades) where we will pick a subset. Suggestions are very welcome on additional genomes, genomes to remove due to quality issues, or better sources of genome data (with annotations) for listed taxa. Please make such suggestions in the issue tracker: <https://bitbucket.org/caseywdunn/agalma/issues/187/-import-annotated-genomes> Thanks,

Agalma Development Team Brown University

“felipe_zapata@brown.edu” <felipe_zapata@brown.edu>

Apologies

Dear Evoldir members,

I am one of the coauthors of the treefinder (2004) paper. I would like to strongly distance myself from the extremist, racist, and otherwise crude world view that is propagated on the treefinder webpage.

I have not been in contact with Gangolf Jobb for over a decade, since he left my group in September 2004 (then at the University of Munich).

Best regards and my sincere apologies,

Korbinian Strimmer

Korbinian Strimmer <k.stimmer@imperial.ac.uk>

ESEB outreach

ESEB Outreach Fund

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

Applications for funding will be accepted for educational initiatives that promote evolution, development of evolutionary material (books, films, web sites) intended

for a general audience, public outreach seminars, public exhibitions, etc. While most projects will be financed for a sum between 1000-1500 Euro, exceptions can be made if a strong argument is provided for additional funds.

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

–

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

Phyloseminar Arne Mooers Sep23

Next on <http://phyloseminar.org/> :

Arne Mooers (Simon Fraser University) Conserving phylogenetic information: indices, approaches and gaps Wednesday, September 23, 2015, 9:00 AM PDT $i_{\frac{1}{4}}$ There seems to be increased interest in the notion that evolutionary history is worthy of management and conservation (see, e.g. Frishkoff et al. 2014; Diniz-Filho et al. 2013). The basic quantity seems to be “phylogenetic diversity” (PD) or the sum of the edge lengths connecting a candidate set of species (Faith 1992). Given a tree or network, one can produce many measures of current (or expected) (contributions to) PD, and these can be modified by other axes of value and expected costs and benefits of interventions. The technical side of the field seems to me to be in some disarray; there are overlapping terms and definitions, weak connections to other literatures (particularly community ecology), and under-tested assumptions. My presentation will offer little or no new data, but I will draw on the work of others in an attempt to partially organize the technical side of the field as I see it. Key issues concerning mapping traits and geographic scale are taken up in the following two presentations in this series.

– Frederick “Erick” Matsen, Associate Member Fred Hutchinson Cancer Research Center <http://matsen.fredhutch.org/> matsen@fredhutch.org

PhysBiocZool EarlyLifeEffects

Physiological and Biochemical Zoology is soliciting manuscripts for review for a Focused Issue on:

Early-life Effects on the Adult Phenotype: a Comparative Perspective

Adult organisms are the result of ontogenetic development that is fundamentally guided by the genome, but is also modulated by environmental factors. In general, environmental influences early in life are particularly likely to have lasting effects, and yet are often difficult to identify. For example, numerous studies show that humans that experience nutritional stress early in life (e.g., around conception) have altered adult phenotypes at both behavioral and physiological levels. Further studies, especially with rodents, show that these effects may have an epigenetic basis, caused by such mechanisms as methylation of particular DNA sequences. Moreover, work on rodents, fishes, and insects demonstrate that some early-life effects may cross generations (e.g., grand-offspring may be impacted). Hence, early-life effects may alter the nature of individual phenotypic variation on which selection may act, as well as the proportion of that variance that can contribute to a response to selection.

Topics of interest for the focused issue include, but are not limited to:

- Parental effects - Developmental plasticity and critical windows - Acclimation and acclimatization - Effects of altered biophysical conditions (e.g., hypoxia, environmental acidification, climate change) during embryonic stages on subsequent development, growth, and performance - Epigenetic mechanisms underlying early-life effects on adult phenotypes - Impact of parental stress on development (including in utero & other maternal effects) - Compensatory mechanisms of developing physiological systems - Role of the endocrine system in early-life effects - Long-lasting effects of toxicants experienced during early life - Evolutionary consequences of early-life effects

Empirical studies should be hypothesis-driven and examine the ontogeny of behavior, morphology, physiology or biochemical function. Studies on model organisms as well as non-traditional species and humans are welcomed, but all submissions must offer insights relevant to the ecology, evolution or behavior of the organisms

under natural conditions.

Both short and comprehensive review or synthesis papers will be considered for this Special Issue (prior to submitting a review, contact the Editor in Chief [tgarland@ucr.edu] directly to discuss possibilities). Note that PBZ also considers Brief Communications, Technical Comments, and papers related to Education and Outreach.

All manuscripts should conform to the usual formatting requirements for PBZ (please check our website), and all will receive rigorous peer review via our standard double-blind process. Papers will be published in early 2017.

Deadline for Submissions: Submit manuscripts to www.editorialmanager.com/pbz by February 15, 2016. Please identify the manuscript as a Special Issue submission.

Theodore Garland Jr <theodore.garland@ucr.edu>
Theodore Garland Jr <theodore.garland@ucr.edu>

Primate phylogenetic markers

Dear EvolDir members,

I need to find nuclear markers which can properly discriminate the phylogenetic relationships among primates of the same genus. I'll appreciate your collaboration

Cordialmente,

MANUEL HOYOS

BiÃ³logo

Grupo de Biodiversidad y Recursos GenÃ©ticos
Laboratorio de EcologÃ­a Molecular Instituto de
GenÃ©tica (57 1) 3165000 ext 11614 Universidad
Nacional de Colombia Facultad de Ciencias Departamento de BiologÃ­a MaestrÃ­a en Ciencias BiologÃ­a

Manuel Antonio Hoyos Rodriguez
<mahoyosr@unal.edu.co>

Reticulate Evolution

RETICULATE EVOLUTION: SYMBIOGENESIS, LATERAL GENE TRANSFER, HYBRIDIZATION AND INFECTIOUS HEREDITY, Gontier N (ed), 2015, Springer (Dordrecht)

Website <http://link.springer.com/book/10.1007%2F978-3-319-16345-1> About the Book - Explains to non-experts how symbiosis, symbiogenesis, lateral gene transfer, hybridization and infectious heredity underlie reticulate evolution - Includes glossaries that explain new terminology and timelines that situate major discoveries in their historical contexts - Presents state of the art findings on how reticulate evolutionary mechanisms contribute to life's evolution, what the theoretical and epistemological implications are for the standard evolutionary paradigm, and how reticulate evolution contributes to health and disease

Table of Contents . Reticulate Evolution Everywhere Nathalie Gontier (summary chapter available at http://www.academia.edu/14079107/-Reticulate_evolution_everywhere) . Symbiosis Evolution's Co-Author Douglas Zook (free download at: http://www.springer.com/cda/content-document/cda_downloadaddocument/9783319163444-c2.pdf?SGWID=0-0-45-1516570-p177287322) . Can We Understand Evolution Without Symbiogenesis? Francisco Carrapiço . Novel Endosymbioses as a Catalyst of Fast Speciation Vitor G. Faria, Ã­lio Sucena . Historical and Epistemological Perspectives on What Horizontal Gene Transfer Mechanisms Contribute to Our Understanding of Evolution Nathalie Gontier . Plasmids: Histories of a Concept William C. Summers . Symbiosis Between Non-Transferable Plasmids and Prokaryotic Cells Francisco Dionisio, JoÃ£o Alves Gama, AndrÃ© F. P. Carvalho . Host-Symbiont-Pathogen-Host Interactions: Wolbachia, Vector-Transmitted Human Pathogens, and the Importance of Quantitative Models of Multipartite Coevolution Caetano Souto-Maior . Evolution of the Human Microbiome and Impacts on Human Health, Infectious Disease, and Hominid Evolution Laura S. Weyrich . Divergence-with-Gene-Flow What Humans and Other Mammals Got up to Michael L. Arnold, Amanda N. Brothers, Jennafer A. P. Hamlin, Sunni J. Taylor. A Multiset Model of Multi-Species Evolution to Solve Big Deceptive Problems LuÃ­s Correia, AntÃ³nio Manso

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appeelannouncements@fc.ul.pt appeelannouncements@fc.ul.pt

SMBE proposals 2019

SMBE is accepting proposals to host its International Meeting in 2019. The meeting is usually held in June or July and attracts up to 1500 scientists from throughout the world. For 2019, the Society will accept proposals from Europe or North America, with a slight preference for Europe, because the next three meetings will be held in Gold Coast, Australia (2016), Austin, USA (2017), and Yokohama, Japan (2018), respectively. The successful location will need to have a lecture venue of sufficient size to host plenary lectures for all attendees as well as smaller rooms for contributed papers, and space for poster sessions. It will also need to be near housing, preferably with a wide variety of options.

The proposals will come from a local organizing committee of scientists headed by an SMBE member. (We are not interested in hearing from conference organizing firms). Once a location is chosen, the local planning committee will be responsible for the academic program. The Society provides financial support to underwrite the hiring by the local organizers of a professional firm who will help secure facilities, develop a website and advertise the meeting. Guidelines for meeting organization are posted on the Society's website <https://www.smbe.org/-smbe/MEETINGS/ConferenceGuidelines.aspx>. This is a unique opportunity to host a premier international meeting near your institution. If you are interested in hosting or have questions about the meeting, please address your enquires to SMBE President-Elect George Zhang (Jianzhi@umich.edu) by Oct. 15, 2015. At this stage, we are interested in preliminary inquiries and are not insisting on complete plans.

jianzhi@umich.edu

Software Treefinder LicenseChange

Dear All!

Please note that I have changed the license agreement of my TREEFINDER software (www.treefinder.de): Starting from 1st October 2015, I do no longer permit the usage of my TREEFINDER software in the following EU

countries: Germany, Austria, France, Netherlands, Belgium, Great Britain, Sweden, Denmark - the countries that together host most of the non-european immigrants. For all other countries, the old license agreement remains valid. USA has already been excluded from using Treefinder in February 2015. This is all in accordance with the license agreement stated in the TREEFINDER manual since the earliest versions, which reserves me the right to change the license agreement at any time. I can do this because Treefinder is my own property.

On the TREEFINDER download website I have collected many links to background information, including some in English language.

I will check who is using Treefinder and I may sue the license violators. I will, however, make exceptions for political friends. Those who feel they are shall ask me.

Regards,

Gangolf Jobb

Gangolf Jobb <gangolf@treefinder.de>

SSB callProposals AustinTX

Call for 2016 SSB Workshop Proposals

The Society for Systematic Biologists is pleased to invite proposals to organize a one-day workshop at the 2016 SSB meeting in Austin, Texas from June 17-21st. The meeting will be held jointly with the American Society of Naturalists (ASN) and the Society for the Study of Evolution (SSE). The workshop will take place on the first day of the meeting (June 17th).

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

SSB workshops are full-day events, but the structure is flexible and will be determined by the organizers. For an example, see last years workshop at <http://-2015nsfssbworkshop.weebly.com/schedule.html>. Topics may include any area related to systematics. The society is particularly interested in workshops that cover new theories or methods in the field and that lead to broader participation in systematics. We encourage the inclu-

sion of a diverse group of speakers from multiple career stages. Limited funding will be provided to support the participation of workshop organizers/presenters. The venue will accommodate up to 60 participants.

The deadline for full consideration is October 30th, 2015. Proposals should be emailed (Word or PDF format) to the Program Chairperson, Stacey D. Smith, Stacey.D.Smith@Colorado.edu (Department of Ecology and Evolutionary Biology, University of Colorado, Boulder, CO, 80309-0334). Please use the subject heading: SSB Workshop Proposal. The program chair will confirm receipt of submitted proposals; please inquire if you do not receive email confirmation.

< <http://www.iochroma.info/> >

dewitt832@gmail.com

Thaumetopoeinae samples

Dear Evoldir Members,

I am Andrea Basso and I am a PhD student working at DAFNAE-Entomology, University of Padua, Italy. In my PhD project, I am working with a subfamily of moths called Thaumetopoeinae (Lepidoptera: Notodontidae) trying to define phylogenetic relationships in this taxon using morphological and molecular traits.

Thaumetopoeinae are distributed in Europe, Africa, India and Australia with a wide number of species.

For my project I need some specimens of each species (any number is welcome, no matter if they are larvae or adults). At this moment I am working only on morphological traits from dried specimens preserved in several museums but I need fresh specimens to extract DNA.

I am writing you because I would like to ask if the Evoldir community could help me in collecting specimens from the areas described below. I would need specimens of: - Anaphe, Epanaphe, Hypsoides, Paradrallia, Adrallia genera from Central to South Africa - Gazalina genus from North West to North East of India, Nepal, Buthan and Myanmar - Thaumetopoea apogetica from South to Central-East Africa - Thaumetopoea jordana and T.libanotica from middle East (Jordan and Lebanon) - Thaumetopoea dhofarensis from Dhofar (Oman province) - Thaumetopoea cheela from North of Pakistan and North West of India - Thaumetopoea ispartaensis sedirica, and torosica from Turkey (Isparta and Adana provinces) - Epicoma, Tanystola, Aglaosoma

genera from Australia The collection process is simple: It is only necessary take a photo of specimens, write down the location and to put them on a tube with absolute ethanol to preserve DNA. Then you can send me an email to have more details about the delivery. If necessary, I can provide the tubes with alcohol.

Please contact me at andrea.basso.8@studenti.unipd.it for other information like host plants and possible collection sites or simply if you would like to know how to identify these moths or if you just want to know more about the project.

Thank you for considering my request.

Best regards, Andrea Basso

PhD student Università di Padova DAFNAE Entomologia, Agripolis (Italy) andrea.basso.8@studenti.unipd.it

Andrea Basso <andrea.basso.1988@gmail.com>

UToulouse EvolutionaryBiology Internship

One internship position focusing on adaptive evolution, phenotypic plasticity and epigenetic of aphids is available at the Evolution et Diversité Biologique (EDB) laboratory in the group of Dr. Jean-Louis Hemptinne at the University of Toulouse III-Paul Sabatier (France). The student will work under the supervision of Jean-Louis Hemptinne, Etienne Danchin, and Arnaud Sentis.

Topic:

Little is known about the importance of phenotypic plasticity and epigenetic mechanisms for species adaptation and evolution in the light of their paramount role for species survival and interactions, and for ecosystem functioning, crops yields and control of agricultural pests. The successful candidate will thus perform a transgenerational evolution experiment on aphid and their ladybeetle predator specifically focused on transgenerational non-genetic responses to biotic (i.e. predators) and abiotic (i.e. warming) stressors to better understand mechanisms of non-genetic inheritance for adaptive evolution and improve biological control of aphid pests under climate change. This includes routine maintenance of aphid colonies and conducting laboratory experiments, collecting data, and statistical analyses.

Key-words: aphid, ladybeetle, laboratory experiment, epigenetic, phenotypic plasticity, evolution, climate change, biological control.

For more information see:

<http://www.edb.ups-tlse.fr/Hemptinne-Jean-Louis.html> <http://www.edb.ups-tlse.fr/Danchin-Etienne> <http://arnaudsentis.com/> *Candidate competences: *

We are seeking highly motivated students with good organizational skills and strong interests in experimental quantitative ecology, behavioral ecology or evolutionary ecology. Master students in biology, ecology, mathematics or a related field are welcomed. Students interested in both experimental and theoretical work are particularly encouraged to apply. Candidates should be sufficiently fluent in English to be able to engage in discussions and write their report in that language. Previous experience with insects, laboratory experiments, use of spreadsheets (e.g. Excel) and statistical analyses (R software) will be appreciated.

To apply, please send your CV, motivation letter (1 page maximum), and names and contact information for two references to Arnaud Sentis (arnaud.sentis@gmail.com). Informal enquiries are welcome - please contact us by

email.

Practical information:

Starting date: preferably from 1st January to 1st April 2016

Advisors: Jean-Louis Hemptinne, Etienne Danchin and Arnaud Sentis

Duration: ~3-6 months

Salary: stipends provided through the University of Toulouse will be available.

Location: *Ecole Nationale de Formation Agronomique* (ENFA) 2, route de Narbonne (Auzeville Tolosane) BP 22687

31326 CASTANET TOLOSAN Cedex Tél. : + 33 (0)5 61 75 32 32

– Arnaud Sentis Evolution and Biological Diversity (EDB) Laboratory University of Toulouse III Toulouse, France Tel: + 335 61 75 34 52 Web: <http://arnaudsentis.com> Arnaud Sentis <arnaud.sentis@gmail.com>

PostDocs

Angers France Bioinformatics EvolutionGenomes .	104	NewHaven CT PopGenetVectorDisease	113
Basel ComputationalGenomics	105	NewYorkU ComputationalPlantGenomics	113
BritishColumbia PlanktonEvolution	106	NorthCarolinaStateU AppliedEvolBiology	114
CityCollegeNewYork ButterflyPhylogenomics	106	NortheasternU EcolEvolutionaryGenomics	115
CityCollegeNewYork ButterflyPhylogenomics 2 . .	107	OregonStateU PacificOysterAdaptation	116
ColoradoStateU PopulationGenetics	109	PennsylvaniaStateU ComputationalGenomics	116
France MetabolicNetworksEnzymeFamilies	109	PennsylvaniaStateU CoralGenomics	117
Frederick Maryland Bioinformatics	109	PennsylvaniaStateU EvolutionaryGenomics	117
FredHutch Seattle ImmuneCellEvolution	110	PennsylvaniaStateU PopulationGenetics	118
ImperialCollege London ComputationalPhylogenetics	111	Quebec DeerMouseAdaptation	118
ManchesterU EvoDevo AmphioxusZebrafish	111	Roscoff France SexChromosomeEvolution	119
Marseille PlantPhylogeography	112	RutgersU 2 MolecularEvolution	119
Montpellier 2 Bioinformatics	113	StockholmNHM Palaeogenomics	120
		StockholmU EvolutionaryBiol	121

SwanseaU FishIntrogression	122	UOxford 2 EvolutionAntibioticResistance	131
SyracuseU PlantEvolution	122	UPennNCStateU HoneyBeeGenomics	131
TexasAMU EvolutionaryGenomics Mutation	123	UppsalaU GenomeEvolution	132
TexasAMU EvolutionaryGenomics Mutation	123	USaskatchewan GrassBioinformatics	132
TexasAMU MolPopGenomics	124	USDA Newark Delaware ParasitoidEvolution	133
UAlberta PinePopGenomics	124	UTrento BehaviouralEvolution	133
UAngers IRHS FungalPathogenSpeciationGenomics	125	UTurku EvolutionMaternalEffects	134
UArkansas CommunityEvolution	125	UVenda SouthAfrica BioinformaticsPopGenet	134
UCalifornia SantaCruz Paleogenomics	126	UVermont Postdoc EcoDevPhys	135
UCollegeLondon XenacoelomorphGenomics	127	UWashington SexualSelectionAndAging	135
UEdinburgh EvolGenomics	128	UWisconsin-Milwaukee PopulationGenomics	136
UGeorgia EvolutionStressResistance	128	UZurich EvolutionFloralSignaling	136
UIllinois UnderrepresentedSTEM PlantEvolution .	128	UZurich PDFandPHD ProteinEvolution	137
UMassachusetts Amherst PlantEvoDevo	129	VanAndelResInst Michigan Bioinformatics	138
UMassAmherst TomatoFruitTraitGenomics	130	WashingtonStateU PlantMicrobe	138
UMichigan ComputEvolGenomics	130		

Angers France Bioinformatics EvolutionGenomes

Call for applications for a 2 years Postdoctoral Fellowship on “Evolution of genomes in the genus /Rosa/” at the Research Institute in Horticulture and Seeds (Angers, France)

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A two-year postdoctoral researcher position is available at the University of Angers (France). The project is a collaboration between the “Research Institute of Horticulture and Seeds” in Angers, astride two teams “Genetics and Diversity of Ornamentals” (GDO, http://www6.angers-nantes.inra.fr/irhs_eng/Research/GDO) and “Bioinformatics” (BioInfo, http://www6.angers-nantes.inra.fr/irhs_eng/Research/BioInfo), and the group of Pr Thomas Debener from the “Institute for Plant Genetics” at the Leibniz University of Hannover (Germany; <http://www.genetik.uni-hannover.de/index.html?&L=1>). The project will be a bio-informatic analysis of the evolution of genomes in the genus /Rosa/, at two levels: (/i/) the research of structural variants (SVs), and (/ii/) the study of the evolution of resistance gene families (see details below). Applications are open for candidates who spent their two last work years abroad France, and preferentially for non-French candidates. The net salary (after taxes) is 2409.58 euro/month. The opportunity to apply for AgreenSkills programmes (<https://www.agreenskills.eu/>) may allow to increase this salary. The beginning of the contract is expected for March or

April 2016. The postdoctoral researcher will be based in Angers, regularly cited as the most pleasant city to live in France, and at proximity to the Loire Valley. Travels are planned between Angers and Hanover.

*_Summary of the project: _*The rose bush is the most economically important ornamental plant and the model plant for many studies about ornamental traits (flowering, fragrance, disease resistance). The rose bush, constituting the genus /Rosa/, has a complex evolutionary history with interspecific hybridization events and polyploidizations. Little information about these events is presently available, mainly hypotheses drawn from sparse molecular markers. Recently, as part of an international consortium, co-coordinated by the GDO team, the first version of the genome sequence of a variety of rose (/Rosa chinensis/ cv. ‘Old Blush’) has been obtained. In this genomic context, we propose to study the evolutionary history of the genus /Rosa/ by resequencing different species of the genus /Rosa/. *The objective is to understand the evolution of genomes in the genus /Rosa/*, and especially to focus on the processes that led to the creation of wild species, including polyploid ones, which are at the base of cultivated modern roses. From short reads (paired-end) obtained from different representative /Rosa/ species involved in cultivated rose breeding, (/i/) _the research of structural variants (SVs as insertions, deletions, duplications, inversion, translocations ^), and (/ii/) _the study of the evolution of resistance gene families_ will be conducted.

//

Mission of the postdoctoral fellow/The//production of raw reads will be done before the postdoc arrival. The hired postdoc with a strong background in bioinformatics or genome analysis will make a survey of the best methods to ana-

lyze structural variations in rose genomes. He/she//will then be in charge of the computer bio-analyses to research the structural variants and to study gene family evolution.

*_Expected skills:_*The desired applicant is expected to be a bioinformatician or a bioanalyst with an expertise in genome assembly. Expertise in the detection of genomic rearrangements, identification of homologous relations within gene family and/or gene family evolution study would be appreciated. Programming skills for one or several languages are needed. Social skills are also important for the success of interactions.

Applications should be sent by email to jeremy.clotault@univ-angers.fr, fabrice.foucher@angers.inra.fr, debener@genetik.uni-hannover.de and include a letter of motivation, a CV, and names and contact information of three referees. *The dead line for application is October 15th , 2015.*

Jeremy Clotault <jeremy.clotault@univ-angers.fr>

Basel Computational Genomics

Post-doc position in computational genomics/gene regulatory networks

A post-doctoral position is available in the group of Prof. Erik van Nimwegen (<http://www.biozentrum.unibas.ch/research/groups-platforms/overview/unit/nimwegen/>) at the Biozentrum of the University of Basel and Swiss Institute of Bioinformatics. We are looking for highly motivated individuals with strong mathematical and computational skills that are interested to perform theoretical research in computational genomics, genome-wide regulatory networks, and stochastic gene regulation in single cells.

Our research group is highly interdisciplinary, involving both an experimental section where researchers with a background in molecular biology are experimentally studying genome evolution and gene regulation at the single cell level in bacteria, and a theoretical section where researchers with backgrounds in theoretical physics, computer science, and applied mathematics are using techniques from Bayesian probability, evolutionary theory, dynamical systems theory, and stochastic processes, to study the function and evolution of genome-wide regulatory networks in cells. We are particularly interested in uncovering the principles by which genome-wide regulatory networks specify and maintain

cell identity in multi-cellular organisms, how cells control and exploit the noise in gene regulatory processes, and how gene regulation evolves. A list of our group's publications can be found at <https://scholar.google.ch/citations?user=N24KB1wAAAAJ> . Our lab also takes part in a number of collaborative projects within Switzerland including StoNets, which studies the ways in which cells control and exploit stochasticity in gene regulatory networks, and BrainStemX, which studies the gene regulatory networks underlying mammalian forebrain development. For this position we are in particular looking for candidates that are interested in developing methods for the analysis of next-generation sequencing data, including RNA-seq, single-cell RNA-seq, and ChIP-seq data. The precise topic of the research project will be determined jointly with the candidate and candidates that display initiative and independence will be given priority.

Candidates should have strong mathematical and computational skills, and experience in such areas as stochastic processes, dynamical systems theory, and Bayesian statistics is a plus. Experience with next-generation sequencing data is desirable but not strictly required. Candidates do not necessarily have to have a biological background but should have a strong desire to directly work with experimental biologists. The candidates should have a good knowledge of English. German is helpful but not necessary. The salary is generous and is set according to the guidelines of the Swiss National Science Foundation. The start date will be by mutual arrangement.

Basel is a very international city and a center of life science research, with over 900 life science research companies in the area, including Novartis and Roche. Several other academic institutions are also in the city, including the Friedrich Miescher Institute, the ETH Zurich Biosystems Science and Engineering Department, and the Swiss Tropical Institute. The city is less than 5km from both France and Germany and an hour and a half from the Swiss Alps.

To apply, please send a single pdf containing your application letter, CV, and the names of two references to erik.vannimwegen-at-unibas.ch Review of applications will begin immediately.

Thomas Julou <thomas.julou@normalesup.org>

British Columbia Plankton Evolution

We are seeking a post-doctoral fellow with an interest in applied ecological and evolutionary genomics and aquatic ecosystems to lead a project investigating the use of metabarcoding to measure responses of freshwater plankton communities to land-use disturbances.

This project is part of a larger federal government genomics initiative aimed at enabling genomics-based biomonitoring and a better understanding of the effects of land-use related stressors on Canadian biodiversity and ecosystems. The focus will be on using next generation sequencing to estimate zooplankton and/or phytoplankton biodiversity across a disturbance gradient in two Canadian freshwater ecosystems important for salmon: the Fraser River Delta (Sockeye salmon) and the Prince Edward Island river system (Atlantic salmon). This will be done to meet two main objectives: (1) develop a metabarcoding-based biomonitoring tool for freshwater, salmon-bearing systems on both coasts of Canada; and (2) to apply this tool across a land-use disturbance gradient to understand relationships between multiple stressors and biological communities that support salmon via food web interactions.

This highly interdisciplinary project will involve field work, high throughput DNA sequencing (metabarcoding), and extensive bioinformatic and statistical analyses on large datasets.

The successful candidate will have a PhD in a relevant area of ecology, evolution, and/or systematics and will demonstrate analytical and/or bioinformatics skills. Experience in the preparation of samples for NGS (Illumina) and knowledge of aquatic systems and community ecology are desirable. Candidates should demonstrate a strong track record of publication; have strong organizational, written, and oral communication skills; and be able to work both independently and as part of a collaborative team.

This posting is anticipatory and candidate selection needs to progress as soon as possible for administrative reasons. The position is an NSERC Visiting Fellowship (up to 3 years duration) starting no earlier than April 1, 2016, but interested and qualified candidates must be registered into the system by November 1, 2015, and final notification of award must occur no later than January, 2016. Applications from international candidates will be accepted until NSERC's quota

for international fellows has been reached; hence Canadians are also strongly encouraged to apply. For more information and to review eligibility criteria, see: http://www.nserc-crsng.gc.ca/Students-Etudiants/PD-NP/Laboratories-Laboratoires/index_eng.asp To be considered for this position, please send your CV and brief email text explaining your interest and suitability to cathryn.abbott@dfo-mpo.gc.ca

Dr. Cathryn Abbott Research Scientist Fisheries and Oceans Canada Pacific Biological Station Nanaimo BC
 "Cathryn.Abbott@dfo-mpo.gc.ca"
 <Cathryn.Abbott@dfo-mpo.gc.ca>

City College New York Butterfly Phylogenomics

POSTDOCTORAL POSITION IN BUTTERFLY PHYLOGENOMICS

The Lohman Laboratory at the City College of New York (CCNY), the flagship campus of the City University of New York (CUNY), is seeking a motivated and productive postdoctoral researcher in phylogenomics and comparative life history evolution.

MAJOR RESPONSIBILITIES The postdoc will join a team of researchers from the University of Florida, Harvard, Yale, and Georgetown University to reconstruct a phylogenetic tree of all butterfly species using anchored hybrid enrichment of marker genes followed by next-gen sequencing. A parallel effort will mine existing databases and literature to synthesize data on species ranges and traits and deliver these data through an online portal. Subsequent analyses will use these tools to examine biogeography, macroecology, and life history evolution of these charismatic insects. The project, ButterflyNet, is funded by a Genealogy of Life grant from the National Science Foundation.

The successful candidate will have three primary responsibilities: 1) coordinating a large, global network of collaborators and contributors to obtain specimens and tissues; 2) traveling to several countries including China, India, and Sri Lanka to perform next-gen library preparation in host laboratories; 3) undertaking large-scale phylogenetic/ phylogenomic analyses and evolutionary comparative studies. The position requires prolonged travel to Asia, and the postdoctoral fellow must be willing and able to travel outside the United States for several months at a time. The postdoctoral researcher

will have the option to spend time visiting the laboratories of other participants of ButterflyNet to work on comparative analyses, particularly in later phases of the project: Akito Kawahara and Rob Guralnick at the University of Florida, Leslie Ries at Georgetown, Walter Jetz at Yale and/or Naomi Pierce at Harvard University.

The Biology Department of CCNY has a large and thriving community of faculty, students, and post-docs studying ecology, evolution, and behavior (EEB). The CCNY EEB group interacts with the larger community of biologists in New York at other CUNY campuses and at the American Museum of Natural History, the New York Botanical Garden, and other universities, including Columbia, Rockefeller, and NYU.

QUALIFICATIONS >Ph.D. in systematics, evolutionary biology, behavioral ecology, >genomics and/or related fields

>Fluency in written and spoken English

>Computational proficiency with bioinformatics, phylogenetic inference >software, and other analytical programs, including command-line >computing

>Laboratory experience with PCR, DNA sequencing, and sequence editing

>Ability to meet deadlines, work in a team, and gather data in >challenging conditions

>US citizenship or permanent residency is not a requirement.

ADDITIONAL RESPONSIBILITIES >The postdoctoral scientist will be expected to teach an undergraduate >elective course on a topic of his or her choice to gain teaching >experience.

>Participation in multi-disciplinary ButterflyNet workshops will help broaden the postdoctoral scientist's skill set.

>Assist with purchasing and other laboratory management activities

>Assist with grant applications and publication writing

>Participate in mentoring graduate and undergraduate students

OTHER DESIRABLE SKILLS >Prior experience studying insects, especially butterflies or other Lepidoptera

>Laboratory experience with next-gen library preparation and/or phylogenomics

>Proficiency in spoken Mandarin Chinese would be useful but is not required

APPLICATION INFORMATION To apply, please sub-

mit your CV, a cover letter, and the names, phone numbers, and email addresses of three referees using this link at rfcuny.org>About RF>Careers>Research

<https://www.rfcuny.org/careers/postings?pvnID=CC-1508-000694> Click on "Apply" under the "Actions" header. In addition, please ask two of your referees to email letters of support to butterflyphylogenomics@gmail.com.

The cover letter should discuss your previous research and training, your qualifications for the position as detailed in this advertisement, and how this postdoctoral position will further your long-term research/career aspirations.

The salary will be commensurate with experience; generous benefits are included. The appointment is initially for one year, with up to two additional years possible given satisfactory progress.

Review of applications will begin 15 October 2015 and will continue until the position has been filled. The successful applicant may begin as early as 1 November 2015, and should ideally begin within the first quarter of 2016.

Any questions about this position should be addressed to David Lohman at butterflyphylogenomics@gmail.com.

For more information about the Lohman Laboratory, please visit:

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CityCollegeNewYork ButterflyPhylogenomics 2

POSTDOCTORAL POSITION IN BUTTERFLY PHYLOGENOMICS

The Lohman Laboratory at the City College of New York (CCNY), the flagship campus of the City University of New York (CUNY), is seeking a motivated and productive postdoctoral researcher in phylogenomics and comparative life history evolution.

MAJOR RESPONSIBILITIES The postdoc will join a team of researchers from the University of Florida,

Harvard, Yale, and Georgetown University to reconstruct a phylogenetic tree of all butterfly species using anchored hybrid enrichment of marker genes followed by next-gen sequencing. A parallel effort will mine existing databases and literature to synthesize data on species ranges and traits and deliver these data through an online portal. Subsequent analyses will use these tools to examine biogeography, macroecology, and life history evolution of these charismatic insects. The project, ButterflyNet, is funded by a Genealogy of Life grant from the National Science Foundation.

The successful candidate will have three primary responsibilities: 1) coordinating a large, global network of collaborators and contributors to obtain specimens and tissues; 2) traveling to several countries including China, India, and Sri Lanka to perform next-gen library preparation in host laboratories; 3) undertaking large-scale phylogenetic/ phylogenomic analyses and evolutionary comparative studies. The position requires prolonged travel to Asia, and the postdoctoral fellow must be willing and able to travel outside the United States for several months at a time. The postdoctoral researcher will have the option to spend time visiting the laboratories of other participants of ButterflyNet to work on comparative analyses, particularly in later phases of the project: Akito Kawahara and Rob Guralnick at the University of Florida, Leslie Ries at Georgetown, Walter Jetz at Yale and/or Naomi Pierce at Harvard University.

The Biology Department of CCNY has a large and thriving community of faculty, students, and post-docs studying ecology, evolution, and behavior (EEB). The CCNY EEB group interacts with the larger community of biologists in New York at other CUNY campuses and at the American Museum of Natural History, the New York Botanical Garden, and other universities, including Columbia, Rockefeller, and NYU.

QUALIFICATIONS >Ph.D. in systematics, evolutionary biology, behavioral ecology, genomics and/or related fields

- >Fluency in written and spoken English
- >Computational proficiency with bioinformatics, phylogenetic inference software, and other analytical programs, including command-line computing
- >Laboratory experience with PCR, DNA sequencing, and sequence editing
- >Ability to meet deadlines, work in a team, and gather data in challenging conditions
- >US citizenship or permanent residency is not a requirement.

ADDITIONAL RESPONSIBILITIES >The postdoctoral scientist will be expected to teach an undergraduate elective course on a topic of his or her choice to gain teaching experience.

>Participation in multi-disciplinary ButterflyNet workshops will help broaden the postdoctoral scientist's skill set.

>Assist with purchasing and other laboratory management activities

>Assist with grant applications and publication writing

>Participate in mentoring graduate and undergraduate students

OTHER DESIRABLE SKILLS >Prior experience studying insects, especially butterflies or other Lepidoptera

>Laboratory experience with next-gen library preparation and/or phylogenomics

>Proficiency in spoken Mandarin Chinese would be useful but is not required

APPLICATION INFORMATION To apply, please submit your CV, a cover letter, and the names, phone numbers, and email addresses of three referees using this link at rfcuny.org>About RF>Careers>Research

<https://www.rfcuny.org/careers/postings?pvnID=1508-000694> Click on 'Apply' under the 'Actions' header. In addition, please ask two of your referees to email letters of support to butterflyphylogenomics@gmail.com.

The cover letter should discuss your previous research and training, your qualifications for the position as detailed in this advertisement, and how this postdoctoral position will further your long-term research/career aspirations.

The salary will be commensurate with experience; generous benefits are included. The appointment is initially for one year, with up to two additional years possible given satisfactory progress.

Review of applications will begin 15 October 2015 and will continue until the position has been filled. The successful applicant may begin as early as 1 November 2015, and should ideally begin within the first quarter of 2016.

Any questions about this position should be addressed to David Lohman at butterflyphylogenomics@gmail.com.

For more information about the Lohman Laboratory, please visit:



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mcmaster.ca/~brian/evodir.html

ColoradoStateU PopulationGenetics

The Sloan Lab in the Department of Biology at Colorado State University has flexible funding that could be used to support a postdoc. We are interested in independent and creative scientists who could contribute to research themes in our lab, including molecular evolution and the co-evolutionary interactions between nuclear and organelle genomes. We have recently begun analyzing human population genomic datasets to identify effects of mitonuclear interactions, so we would be particularly interested in researchers with a background in (human) population genetics to develop projects in this area. However, we would be open to any talented scientist with good ideas that would add to a positive and intellectual research environment.

Please explore our website to learn more about what we do in the lab:

<https://sites.google.com/site/danielbsloan/> If interested in discussing further, e-mail Dan Sloan (dbsloan@rams.colostate.edu) and include a CV and a brief description of your research goals and how they could relate to our lab.

Dan Sloan Assistant Professor Department of Biology
Colorado State University Fort Collins, CO 80523 USA
dbsloan@rams.colostate.edu

France MetabolicNetworksEnzymeFamilies

Our team (LABGeM, CEA/Genoscope, CNRS UMR 8030, France) is developing integrated approaches which combines bioinformatics methods and databases for the discovery of new enzymatic activities in the light of metabolic pathway evolution.

Within this framework, we are hiring a post-doctoral fellow (24 months) for the development of innovative bioinformatics methods.

For further information and to apply please see this link: <http://goo.gl/tHQOqk> David Vallenet CNRS

UMR8030 & CEA/DSV/IG/Genoscope Laboratory of Bioinformatics Analyses for Genomics and Metabolism
2, rue Gaston Crémieux 91057 Evry Cedex, France

“vallenet@genoscope.cns.fr”
<vallenet@genoscope.cns.fr>

Frederick Maryland Bioinformatics

Classification: UNCLASSIFIED Caveats: NONE

Postdoctoral / Post-Master's Fellow (Bioinformatics / Metagenomics)

About the USAMRIID Center for Genome Sciences: The US Army Medical Research Institute of Infectious Disease (USAMRIID) is the lead Department of Defense (DoD) laboratory for biodefense research and plays a critical role in protecting the Warfighter and the nation from biological threats. The USAMRIID - Center for Genome Sciences (CGS) hosts the Institute's core capabilities for genomic research and also has a wide-variety of independent research projects. The state-of-the-art research facility includes a wide variety of next-generation sequencing platforms and has access to extensive computational resources. USAMRIID - CGS is highly integrated with several other departments within the Institute (e.g., countermeasure development, diagnostics and vaccine programs), all of which are enhanced by access to excellent BSL-3/4 biocontainment facilities for work with highly infectious bacterial and viral pathogens. Integration of genomics with programs in proteomics, metabolomics and high-content imaging is highly encouraged. These relationships create an ideal environment for interdisciplinary collaboration. USAMRIID is located in Frederick, MD, providing an affordable and fun living environment, with close access to major cities (Washington, DC and Baltimore).

Position Description: USAMRIID - CGS has a fully-funded research opportunity available for a recent master's or Ph.D. graduate to work on projects investigating the microbiome of animal models. This position will focus on developing tools and data analysis pipelines for 16S and metagenomic data from an ongoing investigation into changes in the microbiome associated with exposure to toxicants in a humanized mouse model. The successful applicant for this position will also be responsible for helping to design and build a research program focused on understanding changes in the microbiome of animal models associated with vaccines and therapeutics.

Qualifications: - Recently obtained master's or PhD in computer science, bioinformatics, microbiology, evolutionary biology, genetics, or a related discipline required. - Proficiency in Python, Perl, or other scripting or coding languages required. - Experience working on the Unix/Linux command line platform required. - Experience working with next-gen sequencing data preferred. - Applicants with previous experience in metagenomics will be prioritized. - The ideal candidate will be highly motivated, creative and exhibit a strong publication record. - US citizenship required.

If interested in discussing further, e-mail Jason Ladner (jason.t.ladner.ctr@mail.mil) and include a CV and a brief description of your research interests.

Jason Thomas Ladner, Ph.D. Center for Genome Sciences USAMRIID Fort Detrick, MD (Tel) : 301-619-8965 (Cell): 650-521-4969 jason.t.ladner.ctr@mail.mil <http://scholar.google.com/citations?user=BERyl5AAAAAJ&hl=en> "Ladner, Jason T CTR USARMY MEDCOM USAMRIID (US)" <jason.t.ladner.ctr@mail.mil>

FredHutch Seattle ImmuneCellEvolution

Postdoctoral position to study molecular evolution and phylogenetics of immune cells

Formatted version with links at <http://matsen.fredhutch.org/general/2015/09/01/ab-postdoc.html> Our adaptive immune systems continually update themselves to neutralize and destroy pathogens. The receptor sequences of antibody-making B cells undergo a Darwinian process of mutation and selection which improves their binding to antigen. It is now possible to sequence these B cell receptors (BCRs) in high throughput, giving a profound new perspective on how the immune system responds to infection. Although the elements of B cell affinity maturation are the same as molecular evolution in other settings, being based on recombination, point mutation, and selection, there are a many important differences. These differences, along with the volume of sequence data available, bring new challenges for phylogenetics and molecular evolution. The translational medical consequences of improved methods will be significant. Improved methods will especially help in understanding the development of broadly neutralizing antibodies against HIV. The current best hope for an effective

HIV vaccine is to try to elicit such antibodies, but in order to do so we need to understand in detail how such antibodies. However, the effective antibodies naturally produced in adults require many years of mutation from an unlikely starting point. Thus they will be exceedingly difficult to elicit with a vaccine.

Fortunately, Julie Overbaugh's group here at the Fred Hutch recently published a landmark paper, in which they found broadly neutralizing antibodies in HIV-positive infants. These antibodies mature in significantly less time than in adults. The maturation pathway of these antibodies is not yet understood.

This open postdoc position is to develop new methods for B cell receptor sequence analysis and apply them to sequences from the Overbaugh lab infant study. Our group is dedicated to bringing modern model-based statistical molecular evolution and phylogenetics approaches to BCR sequence analysis that scale to large data sets. Thus far we have developed means of doing selection inference on B cell receptors, VDJ annotation (in press, PLOS Comp Bio), and clonal family inference (paper out soon). Having made progress in these arenas, we are now starting to improve phylogenetic methods for B cell receptors. We would like someone who is strong in computational statistics and/or molecular evolution, but who is motivated by and engaged with the underlying biology. This project will involve significant computer programming and data analysis, but no wet lab work. The methods-development part of this postdoc will be joint with Trevor Bedford, Vladimir Minin, and Harlan Robins, co-founder of Adaptive Biotechnologies.

The position will come with a competitive postdoc-level salary with great benefits for two years. There is some possibility of extension. Fred Hutchinson Cancer Research Center, home of about 190 faculty including three Nobel laureates, is an independent, nonprofit research institution dedicated to the development and advancement of biomedical research. The environment is lively yet casual, with a strong emphasis on collaborative work. The Center is housed in a lovely campus next to Lake Union a short walk from downtown, and a slightly longer walk from the University of Washington. Powerful computing resources and a helpful IT staff await.

If you are interested in this position, please send Erick some representative publications, code samples, and a CV. If you are interested more in evolutionary dynamics of B cells please see the related opening on Trevor's website.

Frederick "Erick" Matsen, Associate Member Fred Hutchinson Cancer Research Center <http://matsen.fredhutch.org/> Erick Matsen <matsen@fredhutch.org>

ImperialCollege London ComputationalPhylogenetics

Imperial College London

Department of Life Sciences

Faculty of Natural Sciences

Research Associate in Computational Phylogenetics and Morphology

Salary: £33,860 - £42,830 per annum (maximum starting salary £35,640 per annum)

We are seeking to recruit a Research Associate in the area of computational phylogenetics and morphology. The successful candidate will carry out research on the problems of morphological character hierarchies, character dependence/independence, and other computational problems related to morphological data used in phylogenetic analysis.

The goal is to help develop and test methods for handling character non-independence in morphological character datasets, particularly with an emphasis on palaeontological data. The main objective is to develop solutions to the problem of character inapplicability, character hierarchies and related computational problems for handling the data during phylogenetic tree searches. The postholder will be expected to collaborate in the development and implementation of novel algorithms and approaches to character hierarchy problems and work with real morphological datasets.

The position is funded until 31 December 2017 by the European Research Council and will be based at the Silwood Park Campus. The ideal start date is 1 January 2016, but this is flexible. The successful candidate will work closely with Dr Martin D Brazeau (holder of the ERC Advanced Grant) and his research group, as well as Dr Martin R Smith (Durham).

You must have a PhD or equivalent qualification in evolution, systematics or phylogenetics, or related disciplines. Candidates with a bioinformatics background will also be considered. Prior knowledge of and experience with both the theory and methods of phylogenetics is essential, and you will be expected to have worked closely with these methods. You must have an understanding of the mathematical underpinnings of both parsimony and 'parametric' methods in phylogenetic analysis. Programming skills, including computationally intensive

tasks and processing biological datasets are essential and fluency in one or more programming languages is expected. While not essential, knowledge of C/C++ and prior experience with morphological phylogenetics would be an advantage.

You must have experience of working in a team, be able 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/m.brazeau> or contact Dr Martin Brazeau: m.brazeau@imperial.ac.uk.

Our preferred method of application is online via our website <http://www.imperial.ac.uk/job-applicants/> (please select "Job Search" then enter the job title or vacancy reference number including spaces - NS 2015 181 JT into "Keywords"). Please complete and upload an application form as directed.

Alternatively, if you are unable to apply online, please contact Mrs Christine Short on 020 7594 2276 or email c.j.short@imperial.ac.uk to request an application form.

Closing date: 30 October 2015 (midnight GMT)

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

"Brazeau, Martin D" <m.brazeau@imperial.ac.uk>

ManchesterU EvoDevo AmphioxusZebrafish

Postdoctoral position in Evolutionary Developmental Biology, University of Manchester

Closing date : 25/10/2015 Reference : LSX-07097 Employment type : Fixed term for 3 years (full time) Salary : £30,434 - £37,394 per annum Location : Manchester, UK

Our laboratory is looking for a highly motivated and skilful postdoc to study the evolutionary origin of the vertebrate head. This project will investigate and compare the genomic regulatory mechanisms of the genes controlling craniofacial development between vertebrates and

amphioxus - a marine invertebrate closely related to vertebrate ancestors. The successful applicant will mainly use zebrafish as a model organism to address these questions of evolution and development. The project is funded by the Leverhulme Trust in collaboration with Peter Holland at Oxford.

Applicants should have or be working towards a PhD in a relevant subject, along with a research background in developmental biology or related fields. Excellent laboratory skills are essential. The successful applicant will be required to establish zebrafish transgenic lines and conduct real-time image analysis in the project. Previous experience with any of these techniques will be an advantage. The post is available for up to 36 months in the first instance, with an expected appointment date of 1 December 2015.

For a full role specification and to apply online, please visit the University's Job website at <https://www.jobs.manchester.ac.uk/displayjob.aspx?jobid=-10397> The closing date for applications is 25 October. Informal enquiries can be made to Tokiharu.Takahashi@manchester.ac.uk

Tokiharu Takahashi, MD, PhD Lecturer in Anatomy Faculty of Life Sciences The University of Manchester Michael Smith Building Oxford Road Manchester M13 9PT UK Tel: +44 161 2755538 Fax: +44 161 2755082

“Tokiharu.Takahashi@manchester.ac.uk”

Marseille Plant Phylogeography

We invite applications for a postdoctoral position in the Mediterranean Institute of Biodiversity and Ecology (IMBE, Aix Marseille University, France). The position is for 1 year starting as soon as February 2016, with extension for one additional year based on performance.

The postdoc will conduct his research in the framework of the DYNAMIC project (<http://dynamic.cirad.fr/en>). DYNAMIC is a collaborative project relying on a strong international network around the Mediterranean basin, to gain new insights on the ecological drivers governing carob symbiotic associations. The Postdoc will be in charge of genotyping, managing, and checking quality of data of ca 1000 carob plants sampled from several provenances in the Mediterranean. During the first year of the project, cpDNA haplotypes and SSR genotypes will be acquired and analyzed to set the geographical genetic structure and phylogeography of carob. Field

campaigns of sampling have started in 2015 and will continue in 2016 and certainly in 2017. The Postdoc will receive technical help for lab work and will work in a team involved in several projects of phylogeography, population genetics or genomic (IMBE - IDEA team).

Using these different sets of markers, the Postdoc will analyze the diversity of this panel and conduct phylogeographical analyses under Bayesian coalescent methods. He will possibly collaborate with microbiologists of the project to relate plant genetic diversity and microbiota diversity under network analyses. During the second year of the project, and according to first results, genome or transcriptome scan approaches will be considered to get more information on adaptive genetic diversity.

We are looking for a candidate with a keen interest for genetic diversity and evolutionary history in geographically structured environments. The candidate must hold a PhD in population genetic, molecular ecology or related field. Good written communication skill and ability to work as part of a team are required. The candidate is expected to be competent in SSR genotyping and populations genetic analysis. We are interested by the new perspectives offered by NGS for SSR genotyping and discovering of additional SNP within SSR loci, therefore experience in bioinformatics will be a plus. Priority will be given to applicants who have been awarded their PhD degree at most three years before the application deadline.

How to apply: Applicants should submit (1) a cover letter describing their research interests and background, (2) a detailed CV (including list of publications), and (3) the contact details of three references to alex.baumel@imbe.fr. The cover letter should also include possible starting dates.

– Alex Baumel

Enseignant-Chercheur Institut Méditerranéen de Biodiversité et d'Ecologie marine et continentale (IMBE) Aix Marseille Université, CNRS, IRD, Univ. Avignon, Technopôle Arbois-Méditerranée Bât. Villemin - BP 80, F-13545 Aix-en-Provence cedex 04, France

04 42 90 84 53 04 91 28 89 76

SAVE THE DATE : International Conference on Ecological Sciences - SFÉcologie 2016 (<http://sfecologie2016.sciencesconf.org>) - 24-27 October 2016, Marseille

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Baumel <alex.baumel@imbe.fr>

Montpellier 2 Bioinformatics

Title: 2 postdoc positions on the evolutionary analysis of biological sequences in Montpellier

The Methods and Algorithms for Bioinformatics (MAB) team at the LIRMM (CNRS & University of Montpellier, France) is looking for talented individuals to fill two postdoctoral positions. We are seeking candidates with a strong background in computational molecular evolution. The position will start by the end of 2015.

The first of the positions (duration: 18-24 months), associated with the European VIROGENESIS project (<http://www.kuleuven.be/english/research/EU/-p/horizon2020/sc/sc1/Virogenesis>), concerns the evolutionary analysis of viral sequences. Topics include – but are not limited to – phylogenetic classification of metagenomic reads and the recombination history of viruses.

The second position (duration: 1 year), associated with the Institute for Computational Biology (IBC, <http://www.ibr-montpellier.fr>), concerns evolutionary analyses of large-scale genomic data – including the inference of very large phylogenies, gene/species tree reconciliation, comparative genomics, phylogenetic network inference and verification, phylogeography, the use of phylogenies to study the evolution of characters.

A one thousand year old city, Montpellier is a thriving research community with a multitude of biology and biomedical research centers. It is the fastest growing city in France where approximately one third of the population are students, and a wonderful location for outdoor activities (kite/wind surfing, sailing, river/sea kayaking, hiking and rock climbing). The LIRMM is one of the most visible computer science laboratories in France.

Contacts: Krister Swenson, swenson@lirimm.fr, Fabio Pardi, pardi@lirimm.fr Olivier Gascuel, gascuel@lirimm.fr

Fabio Pardi <pardi@lirimm.fr>

NewHaven CT PopGenetVectorDisease

The Center for Vector Biology & Zoonotic Diseases at The Connecticut Agricultural Experiment Station (CAES) invites applications for a Postdoctoral Scientist position in population genetics and genomics of vector-borne diseases. This is a two-year appointment that will focus on the population structure of mosquitoes involved in transmission of arboviruses in North America. Applicants must possess a PhD or equivalent and an excellent record of productivity. Experience in genomics including the preparation of samples for Next Generation Sequencing (Illumina Platforms) is required. Familiarity with the UNIX/Linux operating system is highly desirable as well as a working knowledge of tools and methods for the analysis of genomic data and subsequent statistical genetics. Familiarity with scripting (Perl, Python), object oriented (Java, C++), and statistical languages (R) will be beneficial, though not essential. The successful candidate will interact with a team of CAES scientists with access to animal facilities and mosquito colonies within the Experiment Station, and genomic and computational facilities at nearby Yale University. Additional information on research programs may be found at <http://www.ct.gov/caes/cvbzd>. The salary and benefits are competitive. Review of application materials will begin immediately and continue until the position is filled. Applicants should send electronically (1) Cover letter summarizing candidate's qualifications, (2) curriculum vitae, (3) copies of transcripts, and (4) names and contact information for three letters of reference to: Dr. Goudarz Molaei (goudarz.molaei@ct.gov), Center for Vector Biology & Zoonotic Diseases, The Connecticut Agricultural Experiment Station, 123 Huntington St., P.O. Box 1106, New Haven, CT 06504.

“Molaei, Goudarz” <Goudarz.Molaei@ct.gov>

NewYorkU ComputationalPlantGenomics

Postdoctoral Position in Computational Genomics at NYU and Cold Spring Harbor Laboratory

A joint postdoctoral position is available in the research groups of Dr. Michael Purugganan (NYU) and Dr. Adam Siepel (Cold Spring Harbor Laboratory).

The Purugganan laboratory is interested in plant evolutionary genomics and systems biology, while the Siepel group specializes in the development of probabilistic models, algorithms for inference, prediction methods, and application of these methods in large-scale genomic data analysis. We need a computational postdoctoral scientist to work on an existing project in inference of natural selection on regulatory and other noncoding sequences, and prediction of fitness consequences for noncoding mutations in rice. The research will focus primarily on developing a fitness consequence map [Gulko et al. *Nature Genetics* 47, 276-283 (2015)] of the rice genome, and crop plant genomes in general. The location of the postdoctoral scientist will be either at NYU or CSHL, and frequent contact between the two groups is expected. There is also an opportunity to interact with the research group of Dr. Richard Bonneau (NYU), who collaborates with the Purugganan laboratory in plant systems biology. Interest and/or experience in computational biology, population and functional genomics is required.

Position is for up to 4 years, to be renewed annually. Please direct any inquiries and CVs to Michael Purugganan (mp132@nyu.edu) and all applications will be considered starting September 23, 2015 until filled.

“mp132@nyu.edu” <mp132@nyu.edu>

NorthCarolinaStateU
AppliedEvolBiology

Postdoc: Applied Evolutionary Biology

PROJECT DESCRIPTION:

Selfish genetic elements have been studied for over a century, and as far back as the 1960s researchers became interested in using the power of selfish genetic elements to drive genes into pest species to suppress their impacts (Gould et al. 2006). Until recently, the focus of applied work was on naturally occurring elements. In the past decade some progress was made on developing synthetic elements that mimicked natural meiotic drive and selective embryo-killing, but de-novo creation of a gene-drive system in a pest species was elusive. With the harnessing of the bacterial CRISPR-Cas9 system in the past few years there has been a revolution brewing in

this field (Esvelt et al. 2014, Oye et al. 2014). In March 2015 a pivotal article by Gantz and Bier (2015) came out in *Science* on-line demonstrating a CRISPR-Cas9 construct in *Drosophila* with strong gene drive. This proof of principle has gained much attention.

Prospects are good that very soon a single student could engineer a system for driving deleterious or behavior modifying genes into pest populations. Not everyone is comfortable with these developments and there has even been a call for a moratorium on certain experiments. There are also concerns about nefarious use of the technology.

The bottom-line is that progress in molecular biology is ahead of the population genetic work needed to build systems that are less risky but accomplish changes in the public interest.

We have been funded by the NIH and the W. M. Keck Foundation to conduct this kind of population genetic research. Our focus has been on mosquitoes that transmit dengue and malaria, but we are also interested in other biological systems (There is hope that these selfish genetic elements can save endangered species like Hawaiian honeycreepers and specific seabirds (Gould 2008, Esvelt et al. 2014).

The postdoc in this position will build a set of simple to complex models to examine the expected dynamics of gene drive systems in mosquitoes and other taxa.

The most detailed model that we have developed simulates the population dynamics and population genetics of *Aedes aegypti*, the vector of dengue, in a city on the Amazon river, Iquitos, for which there are rich data sets on both mosquito dynamics and dengue epidemiology (e.g. Magori et al. 2009, Okamoto et al 2014). An accompanying epidemiological model is currently under development. The goals of two other postdocs in our group are to expand the mosquito model and the human epidemiology model to encompass the entire city of about 400,000 people. The postdoc in this new position will collaborate with the other postdocs to use these detailed models to test gene drive systems, but will also develop more generic models (e.g. Huang et al. 2010).

In addition to working on model development and analysis, the person in this position will have the opportunity to collaborate in an interdisciplinary research group composed of mosquito ecologists, disease epidemiologists, molecular biologists, biomathematicians, ethicists, and scientists from disease-endemic countries. We are dedicated to taking seriously the ethical and political issues surrounding this technology.

DESIREABLE SKILLS: A background in population genetics and the ability to program in C++ (or knowl-

edge of a related programming language), and training in evaluation of mechanistic models.

TO APPLY: email a cover letter and CV to Fred_Gould@ncsu.edu

References:

Esvelt, K. M., A. L. Smidler, F. Catteruccia, G. M. Church. 2014. Concerning RNA-guided gene drives for the alteration of wild populations. *eLife*. 10.7554/eLife.03401.

Gantz, V. M. and Bier, E. 2015. The mutagenic chain reaction: A method for converting heterozygous to homozygous mutations. *Science* 24 April 2015: 442-444. Published online 19 March 2015 [DOI:10.1126/science.aaa5945]

Gould, F. 2008. Broadening the application of evolutionarily based genetic pest management. *Evolution* 62: 500V510.

Gould, F., K. Magori, Y. X. Huang 2006 Genetic strategies for controlling mosquito-borne diseases. *American Scientist*. 94 (3): 238- 246.

Huang, Y., Lloyd, A.L., Legros, M., Gould, F. 2010. Gene-drive into insect populations with age and spatial structure: a theoretical assessment. *Evol. Appl.* ISSN 1752-4571.

Magori, K., M. Legros, M. Puente, 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

Okamoto, K. W., Robert M. A., Gould, F., Lloyd, A. L. 2014) Feasible Introgression of an Anti-pathogen Transgene into an Urban Mosquito Population without Using Gene-Drive. *PLoS Negl Trop Dis* 8(7): e2827. doi:10.1371/journal.pntd.0002827.

Oye, K. A. et al. 2014. Regulating gene drives. *Science*. 345:626-628 Published online 17 July 2014

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NortheasternU EcolEvolutionaryGenomics

Postdoctoral fellow in Ecological and Evolutionary Genomics

A postdoctoral position is available in the laboratory of Dr. Kathleen Lotterhos at Northeastern University. A central goal of the lab's research is to understand how populations have adapted to climate and how they will respond to climate change. We also evaluate and test statistical methods widely used in genomics. In our research we use a combination of field surveys, experiments, mathematical modeling, genomics, and bioinformatics. Northeastern University a strong research presence in evolution and ecology research and there are many opportunities for interaction and collaboration both there and in the greater Boston area. We welcome applications from candidates with diverse educational backgrounds.

Responsibilities and Qualifications: Applicants will be expected to develop and lead projects. Candidates are expected to have a Ph.D. in Genomics, Evolutionary Genetics, Computational Biology / Bioinformatics, or skills in these areas. A computing background is required, especially experience with Unix, and knowledge in one or several programming languages (Perl, Python, C/C++, R/BioConductor, etc). Candidates should demonstrate a strong track record of publication; have strong organizational, written, and oral communication skills; and be able to work both independently and as part of a collaborative team. We think diversity is a component of excellence, and welcome applicants regardless of gender, ethnicity, sexuality, age or disability.

The appointment is for 18 months and the position will be located at the beautiful campus on Nahant. Start date is flexible.

Applicants should send a cover letter and CV to Dr. Lotterhos (k.lotterhos<at>neu.edu). Review of applications will begin on October 15.

k.lotterhos@gmail.com

OregonStateU
PacificOysterAdaptation

Postdoctoral Research Position in Pacific Oyster Evolutionary Genetics in response to Ocean Acidification

Research Associate (Post Doc) holds a leadership role among a larger research team comprised of Oregon State University (OSU) and Agriculture Research Service-United States Department of Agriculture (ARS-USDA) partners involved in cooperative research to elucidate evolutionary factors associated with the expression and regulation of traits of commercial importance in cultured Pacific oysters. The primary responsibility of this position is to develop marker-assisted and quantitative selection methods that enhance broodstock development with specific relevance to resilience of the oyster industry facing a new marine environmental regime characterized by stronger upwelling events that bring deep, hypoxic, acidified seawater into near-shore bays and estuaries of the US West Coast. Quantitative analysis of data from breeding programs should include the animal among other models applied. Incumbent is expected to engage in innovative research; data collection, assimilation and analysis; development of novel methods; produce scholarly publications and other products, including outreach to the West Coast shellfish industry. Specific project objectives are to: 1) analyze data generated from two on-going projects designed to determine heritabilities of Pacific oyster larval and adult traits (growth, survival, meat content, shell shape) of several mixed family populations subjected to acidified (high pCO₂) seawater treatment and 2) use quantitative and molecular data from these on-going projects, the Oregon State University shellfish breeding program, Molluscan Broodstock Program (MBP), at the Hatfield Marine Science Center (HMSC), and other data sources, to help design and implement breeding strategies to improve traits of Pacific oysters of high value to industry.

Apply:

<https://jobs.oregonstate.edu/applicants/jsp/shared/-position/JobDetails.css.jsp?postingId=425395> Posting number: 0016048 Closing date: 14-Oct-2015

Informal Equiries: Michael Banks
michael.banks@oregonstate.edu Chris Langdon
chris.lagdon@oregonstate.edu Brett Dumbauld
brett.dumbauld@ars.usda.gov

Michael A. Banks Director, CIMRS Professor, Marine Fisheries Genetics & Conservation Coastal Oregon Marine Experiment Station, HMSC Department of Fisheries and Wildlife, OSU 2030 SE Marine Science Drive, Newport, Oregon 97365 Landline: 541-867-0420 Cell 541:272-7057 <http://hmsc.oregonstate.edu/cimrs> "Banks, Michael" <michael.banks@oregonstate.edu>

PennsylvaniaStateU
ComputationalGenomics

PennState.mtDNA_CompBiologist

A POSTDOC NEEDED

The Makova lab (http://www.bx.psu.edu/makova_lab/) is looking to hire a computational postdoctoral researcher with knowledge of genomics for a project examining mitochondrial mutations and their transmission in humans from an evolutionary perspective (please see our recent publication in PNAS: <http://www.pnas.org/content/111/43/15474.long>). 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 Penn State College of Medicine and computational biologists from the Galaxy team (<http://usegalaxy.org>) put us in a great position to address these questions.

Candidates should be familiar with scientific programming and statistical analysis techniques. Experience with next-generation sequencing data analyses is desirable. You will be joining an established dynamic group. 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 public schools, low cost of living, and numerous opportunities for outdoor activities.

This position is supported by an NIH grant. 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 kdm16@psu.edu, indicating mtDNA postdoc in the subject line.

Kateryna Makova, Ph.D.

Pentz Professor and Director, Center for Medical Genomics Department of Biology 305 Wartik Lab Penn State University University Park, PA 16802 USA

Tel: 814-863-1619 Fax:814-865-9131

E-mail: kdm16@psu.edu

Kateryna Makova <kmakova@bx.psu.edu>

PennsylvaniaStateU CoralGenomics

Postdoctoral Researcher - Coral Hybridization Genomics

The Baums lab at The Pennsylvania State University is looking for a postdoc to work on coral hybridization genomics, funded by the National Science Foundation. The only widely accepted coral hybrid system consists of the once dominant but now threatened Caribbean species, *Acropora cervicornis* and *A. palmata*. In the past, hybrid colonies originating from natural crosses between elkhorn and staghorn corals were rare, and evidence of hybrid reproduction was limited to infrequent matings with the staghorn coral. Recent field observations suggest that the hybrid is increasing and its ecological role is changing throughout the Caribbean. These hybrids appear to be less affected by the disease that led to the mass mortality of their parental species in recent decades. Research will address how the increase in hybridization and perhaps subsequent introgression will affect the current ecological role and the future evolutionary trajectory of Caribbean acroporids. Applications must be submitted electronically at <https://psu.jobs/job/59676>. The successful candidate should have a strong background in bioinformatics with experience in genome sequencing, assembly, admixture mapping, SNP development and analysis. Programming skills including UNIX/LINUX and R are required. Experience with wild coral collections, coral spawning experiments, aquarium experiments on corals or AAUS SCUBA certification is a plus. The candidate must have a PhD in bioinformatics, evolution, marine biology, molecular ecology or related fields. The candidate will join an internationally renowned bioinformatics program (<http://www.huck.psu.edu/content/graduate-programs/bioinformatics-and-genomics/faculty>) and a vibrant and growing coral research group (<http://bio.psu.edu/>). Position initially for one year from date of hire with possibility of re-funding. Review of applications will begin immediately and continue until the position is filled.

CAMPUS SECURITY CRIME STATISTICS: For more about safety at Penn State, and to review the Annual Security Report which contains information about crime statistics and other safety and security matters, please go to <http://www.police.psu.edu/clery/>, which will also

provide you with detail on how to request a hard copy of the Annual Security Report.

Penn State is an equal opportunity, affirmative action employer, and is committed to providing employment opportunities to all qualified applicants without regard to race, color, religion, age, sex, sexual orientation, gender identity, national origin, disability or protected veteran status.

Iliana B. Baums, Ph.D. Director, Center for Marine Science and Technology (CMAST) Associate Professor Department of Biology The Pennsylvania State University 208 Mueller Laboratory University Park, PA, 16802

814.867.0491 (Office) 814.867.0492 (Lab) 814.321.3593 (Mob) 814.865.9131 (Fax)

<http://www.bio.psu.edu/people/faculty/baums/>
"ibb3@psu.edu" <ibb3@psu.edu>

PennsylvaniaStateU EvolutionaryGenomics

A postdoc position is available in the lab of Jesse R. Lasky (laskylab.org) in the Department of Biology at The Pennsylvania State University, University Park, PA. Lab goals are to understand the processes that generate and maintain biodiversity, with a focus on spatiotemporal variation in high-dimensional systems. In particular, the lab studies genetic and ecological mechanisms of local adaptation to environment. Furthermore, the lab will pursue connections between local adaptation and community ecology, conservation, and agriculture. The primary study organisms are plants; currently including forest trees, *Arabidopsis*, and sorghum. Penn State University has research strengths in genomics (<http://www.huck.psu.edu/content/graduate-programs/bioinformatics-and-genomics/faculty>), plant biology (<http://www.huck.psu.edu/content/graduate-programs/plant-biology/faculty>), and ecology (<http://www.huck.psu.edu/content/graduate-programs/ecology/faculty>) across departments and colleges. The postdoc will have freedom to develop new projects in the lab and to build collaborations with other labs. The position requires a PhD in Ecology, Evolution, Genetics, Plant Biology, Statistics, or a related field. The ideal candidate will have experience including population/landscape genomics, analysis of sequence data, GWAS methods, statistics, and computation (R,

python, shell, HPC cluster). Complementary expertise in molecular biology, ecophysiology, and ecology is also of interest, but not required. Excellent communication skills, including writing, are required, as is a strong publication record. A complete application will include a cover letter detailing experience and research interests, a current CV, and contact information for three professional references. The position is initially funded for one year, with possibility of re-funding. Anticipated start date is flexible. Review of applications will continue until the position is filled.

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

Annual Security Report. Penn State is an equal opportunity, affirmative action employer, and is committed to providing employment opportunities to all qualified applicants without regard to race, color, religion, age, sex, sexual orientation, gender identity, national origin, disability or protected veteran status.

Job URL: <https://psu.jobs/job/58109> "jrl35@psu.edu" <jrl35@psu.edu>

PennsylvaniaStateU PopulationGenetics

The DeGiorgio lab (<http://www.personal.psu.edu/-mxd60/>) at The Pennsylvania State University is recruiting a highly motivated postdoctoral scholar. The position requires a PhD degree in biology, genetics, bioinformatics, statistics, computer science, or a related field. Our lab uses mathematical and computational approaches to study evolutionary relationships within and among species. We work on both theoretical and applied problems in statistical population genetics, human evolutionary genomics, and phylogenetics. Candidates interested in research projects within these three broad research categories are encouraged to apply. Our lab is solely computational, and so candidates should have knowledge of at least one programming language (C, C++, Java, Perl, Python, etc), familiarity with either R or Matlab, and experience using a Unix or Linux environment. A complete application must be submitted electronically at <https://psu.jobs/job/55772>

and will include a current CV, a cover letter describing your research interests, copies of three representative publications, and contact information for three references. Review of applications will begin immediately and continue until position is filled. This is a fixed-term appointment funded for one year from date of hire with possibility of re-funding.

CAMPUS SECURITY CRIME STATISTICS: For more about safety at Penn State, and to review the Annual Security Report which contains information about crime statistics and other safety and security matters, please go to <http://www.police.psu.edu/clery/>, which will also provide you with detail on how to request a hard copy of the Annual Security Report. Penn State is an equal opportunity, affirmative action employer, and is committed to providing employment opportunities to minorities, women, veterans, disabled individuals, and other protected groups.

mikedegiorgio@gmail.com

Quebec DeerMouseAdaptation

Post-Doc Position in evolutionary ecology at U Sherbrooke, U Laval & UQAM (Winter 2016)

A postdoc position is available as part of a FRQNT project on adaptation to insularity and the role of behaviour in the dynamics of a metapopulation of deer mice *Peromyscus maniculatus* in Northwest Ontario. The project will involve laboratory work with high-throughput SNPs genotyping and next generation sequencing, bioinformatics and fieldwork. The postdoc will be involved in all the aspects of the project, from data collection to publication. She/he will be part of a team of researchers composed of Denis Reale and Steven Kembel (Universite du Quebec a Montreal), Dany Garant (Universite de Sherbrooke), Louis Bernatchez (Universite Laval), and 2 PhD students.

Requirement : PhD in ecological genetics. A candidate with an experience on SNPs, next generation sequencing and bioinformatics is preferred. We are seeking a very autonomous, highly motivated, productive person, who will be willing to gain experience both in the lab and in the field. The candidate will be based in Sherbrooke University (with Dany Garant), will do extensive lab works in Laval University (in Louis Bernatchez lab), and frequent visits to UQAM (Montreal). Fieldwork will be conducted near Kenora (Northwest Ontario) in July and August 2016. Although the candidate will work in

francophone Universities, French is not required.

The position is available for one year starting in January 2016, with possibility of renewal depending on research progress. To apply please send your CV, statement of research interests, and letters from at least two references, before October 10, to Denis Reale (reale.denis@uqam.ca) or by mail to Denis Reale, Département des Sciences Biologiques, Université du Québec à Montréal, CP 8888 succursale centre-ville, Montréal, Québec, H3C3P8.

Denis Reale Professeur Groupe de Recherche en Ecologie Comportementale et Animale Département des Sciences Biologiques Université du Québec à Montréal CP 8888, succursale centre-ville Montréal, Québec, Canada, H3C3P8 Tél: 514 987 3000 (2265#) Fax: 514 987 4746

Denis Réale <reale.denis@uqam.ca>

Roscoff France SexChromosomeEvolution

ERC-funded postdoc position in evolution of sex chromosomes in Roscoff, France

A postdoctoral position in computational biology is available in the Algal Genetics Group, at the Station Biologique de Roscoff (CNRS-UPMC). The position is part of a project that uses a combination of experimental and computational approaches to study the evolution of sex chromosomes in the brown algae. This project (SEXSEA: Origin and evolution of the sexes and reproductive systems, novel insights from a distant eukaryotic lineage) is funded by an ERC Starting Grant. The successful applicant will apply comparative genomic/transcriptomic analysis to several brown algal species to gain novel insights into the forces driving sex chromosome evolution and the interactions between sex chromosomes and key reproductive and life cycle features.

Candidates are expected to have a demonstrated background in one or more the following areas: bioinformatics, comparative genomics, molecular evolution, and a strong interest in sex chromosome evolution. The successful candidate will process and analyze multiple genomes/transcriptomes produced by NextGen sequencing. The initial appointment is for two years, with possibility of extension for two additional years. The applicants do not need to be French speakers (or have any expertise in algae).

The Algal Genetics group (<http://www.sb-roscoff.fr/>-

[en/algal-genetics-0](http://www.sb-roscoff.fr/en/algal-genetics-0)) is an active research group, and the Station Biologique de Roscoff, an internationally renowned center for Marine Research located in Brittany (North West coast of France) (<http://www.sb-roscoff.fr/en>).

Applications should be sent by email to coelho@sb-roscoff.fr and include a short motivation letter, curriculum vitae, and the names and email addresses of two referees. The positions will be opened until a suitable candidate is found (no later than March 2016).

Interested candidates may informally contact Susana Coelho (coelho@sb-roscoff.fr) for further information.

Selected papers of the Algal Genetics Group: Luthringer et al. (2015) *Mol. Biol. Evol.* doi: 10.1093/molbev/msv173; Lipinska et al. (2015) *Mol. Biol. Evol.* doi: 10.1093/molbev/msv049; Ahmed et al. (2014) *Curr Biol.* 24(17):1945-57; Cock et al. (2014) *Curr Opin in Plant Biol.* 17:1-6; Cock et al. (2013) *Curr Biol.* 21, R573-R575; Coelho et al. (2011) *PNAS* 108(28):11518-23; Cock et al. (2010) *Nature* 465, 617-621

Susana M Coelho Algal Genetics Group UMR 7139 CNRS-UPMC Station Biologique, Place Georges Teissier, CS 90974 29688 Roscoff, France 48° 43' 37.33" N 3° 59' 17.41" W Tel: 33 2 98 29 23 60, Fax: 33 2 98 29 23 85 Email: coelho@sb-roscoff.fr <http://www.sb-roscoff.fr/algal-genetics> Susana Coelho <coelho@sb-roscoff.fr>

RutgersU 2 MolecularEvolution

Two postdoctoral fellowships (2-3 years) are available in the group of Dr. Premal Shah at Rutgers University at New Brunswick, NJ (<http://www.theshahlab.org>).

The specific research project is flexible and can be tailored to the interests of the individual, but it will fall under the broad purview of molecular evolution and evolution of gene expression.

1. Computational biology position:

Requirements for the position include: a proven record of self-motivated research; a PhD in mathematics, statistics, physics, biology or related area; excellent communication skills. The ideal candidate should also be familiar with scientific programming.

2. Molecular biology position:

Requirements for the position include: a proven record of self-motivated research; a PhD in biochemistry, genetics,

molecular biology or related area; excellent communication skills. The ideal candidate should have extensive experience in RNA biology.

The postdoctoral fellows will have considerable freedom in developing their own research program, with the resources needed to distinguish themselves. In addition, the fellows will have several opportunities to interact and forge collaborations with research groups both at Rutgers as well as other institutions in the Philadelphia-New York corridor.

The postdoctoral fellowships provide a competitive annual stipend plus benefits and health insurance. Start date and terms are negotiable. Applications are welcome from candidates of any nationality. Women and under-represented minorities are especially encouraged to apply.

Applicants should email a statement of research interests, CV, and contact details for references to shahpr@sas.upenn.edu. Informal inquiries are also welcomed.

Premal Shah Beginning 2016: Assistant Professor Department of Genetics Rutgers University <http://www.theshahlab.org> Premal Shah <shahpr@sas.upenn.edu>

StockholmNHM Palaeogenomics

Postdoctoral Position in Palaeogenomics Swedish Museum of Natural History

DESCRIPTION We are seeking a highly motivated postdoctoral researcher to join the ancient DNA research group at the Swedish Museum of Natural History (see www.palaeogenetics.com/adna). The position is for two years, and the postdoc is expected to play a key role in our ongoing projects on population genomics of Late Pleistocene fauna. The research will be focused on computational analysis of NGS data obtained from multiple radiocarbon dated specimens dating back to last glaciation. One of the primary goals of the project is to investigate the extent to which pre-extinction changes in demography have led to losses in genome-wide diversity and increases in inbreeding coefficients (see Palkopoulou et al. 2015, *Curr Biol*). We are also interested in using palaeogenomic data to empirically investigate the relationship between genetic drift in small populations and accumulation of deleterious genetic variation. Moreover, additional questions that can be addressed include

identification of genomic signatures of natural selection across known changes in climate at the end of the last ice age, as well as estimating mutation rates based on time-stamped genomes and examining the timing of divergence among populations (see Skoglund et al. 2015, *Curr Biol*).

ENVIRONMENT The position will be based at the Department of Bioinformatics and Genetics at the Swedish Museum of Natural History (SMNH). The museum is located in Stockholm, which by many is regarded as one of the most beautiful capitals in the world and is home to a vibrant scientific community with several leading research institutes, including Stockholm University and the Science for Life Laboratory. The SMNH has a strong mission in natural history research, and its research division has more than 170 employees. The department of Bioinformatics and Genetics hosts three research groups, focused on ancient DNA and population genetics (PI: Dr. Love Dalén), avian systematics and biogeography (PI: Dr. Martin Irestedt), and phylogenomics (PI: Prof. Fredrik Ronquist).

QUALIFICATIONS The ideal candidate is a creative and independent researcher, who by the start of the project has obtained a PhD in biology or a related field. A record of scientific achievement in bioinformatics and computational genomics is essential, as is previous experience in handling NGS data using scripts and analysis pipelines. Additional merits include experience in computer programming, population genetics and wet lab analyses, as well as proficiency in genome assembly and annotation.

START DATE The start date of the position is flexible, but should not start later than January 1, 2016. The position is for two years full-time and employment will either be as a Postdoc or Researcher, depending on whether the applicant was awarded his/her PhD degree less or more than three years before the application deadline.

FURTHER QUESTIONS For further questions regarding the position, please contact Dr. Love Dalén (love.dalen@nrm.se). Union representative is Bodil Kajrup SACO-S. Both can be reached at telephone number +46 8 519 540 00.

HOW TO APPLY Applicants should submit a CV including a publication list, and cover letter describing their research interests, qualifications and reasons for applying. The cover letter should also indicate the applicant's ideal starting date and a list of two persons who may provide references. Please submit the application as a single pdf document, marked with dnr 2.3.1-582-2015, to rekrytering@nrm.se or to Swedish Museum of Natural History, P.O. Box 50007, SE-104 05 Stockholm,

Sweden, no later than October 9, 2015.

“Love.Dalen@nrm.se” <Love.Dalen@nrm.se>

StockholmU EvolutionaryBiol

Postdoctoral position in Ethology at the Department of Zoology at Stockholm University. Closing date 1 October 2015.

Project description

A fully funded 2-year post-doctoral position is available at the Zoology Department (Ethology) at Stockholm University. The candidate can choose to work within either or both of two potential projects. For the first project, developed in collaboration with Dr Björn Rogell at Stockholm University, we are looking for a person with demonstrated experience in experiments using fish as model system. This project involves work on the effects of lifestyle on life history and behaviour using killifish as a model system. Killifish are an excellent model system because of their strong contrasts in lifestyle: some species live in temporary water bodies which completely dry out and only the eggs survive by going into diapause (annual species), whereas other species live in permanent water bodies and do not present diapause. The different species thus present marked differences in longevity and other life history traits. We currently have stocks of several annual and non-annual killifish species in the lab allowing the postdoctoral researcher to develop diverse experiments analyzing the influence of lifestyle on life history and behaviour. There is ample freedom to develop projects which match the chosen candidate's interests.

The second project involves macro-evolutionary analyses of morphology and behaviour in relation to diversification patterns in the most important Caribbean amphibian radiation, the family Eleutherodactylus. For this project the candidate must demonstrate experience in the use of modern phylogenetic comparative methods. Potential projects can involve rate of phenotypic evolution, analyses of diversification, community phylogenetics, song evolution, etc.

The position will most likely involve research stays at the Universidad Nacional Autónoma de México, particularly for candidates working on the second project.

The Department of Zoology was founded in 1880, it is divided into five sub-departments: ecology, ethology, functional morphology, population genetics and system-

atics and evolution and there is much integration and collaboration among sub-departments. Current research in the Department of Zoology is focused on animal evolution, ecology and behaviour, with a broad spectrum from nervous system to ecosystem involving model organisms from fruit flies and butterflies to fishes, birds and large mammals. The Department offers an international and stimulating work environment.

Applicants must provide a written report about previous scientific activity and experience and how they comply with the requirements of the project applicants are interested in.

Eligibility and selection criteria

The applicant must have a doctoral degree from an accredited college/university in Biology or a similar field of studies. For the postdoctoral position, the PhD degree should have been received no more than three years before the deadline for applications. Among qualified applicants selection is made according to scientific merits, quality of the PhD thesis, the applicant's documented knowledge in subjects of relevance for the research area, ability to master English language (both spoken and written), analytical ability, initiative, independence and ability to cooperate. In filling the position, particular weight will be given to research proficiency, experience with an experimental approach to tackle evolutionary questions and experience keeping fish stocks in a laboratory environment. The working language in Stockholm University is English, and even everyday life in Stockholm is very simple with English.

Stockholm University strives to be a workplace free from discrimination and with equal opportunities for all.

Employment conditions.

The position is for two years, full time. The starting date is negotiable but preference will be given for candidates who can begin work in 2015.

Application

Applications must include a CV, list of publications and a cover letter describing research interests, qualifications and reasons for the application. The letter should also contain possible starting dates and contact information of three references.

Please follow the instructions available here :

<http://www.su.se/english/about/vacancies/vacancies-new-list?cache=%2Fstudy-information%2Fstudent-and-teacher-exchange%2Fincoming-students-to-stockholm-university> For more information please contact Alejandro Gonzalez Voyer: a.gonzalezvoyer@zoologi.su.se

Cheers Alejandro

Alejandro Gonzalez
<alejandro.gonzalez@iecologia.unam.mx>

SwanseaU FishIntrogression

Postdoctoral position in Fish Epigenetic Introgression at Swansea University

We are looking for 1 Postdoctoral Research Fellow to explore the role of epigenetic modifications in the introgression between farm and wild salmon. It has long been recognised that the introduction of Atlantic salmon (*Salmo salar* L.) from captive populations in the wild, mainly through escapes from fish farms threaten the genetic integrity of natural populations through genetic introgression. Although domesticated salmon seem to have in general poor reproductive success, farm mature parr can have higher rates of fertilisation success than their wild counterparts, acting as vehicles of introgression, and in fact gametes of farm salmon are functionally similar to those of wild ones. Populations invaded by farm escapes show signs of significant genetic change and interbreeding between farm and wild salmon result in differences in the gene expression associated with environmental change and immune response. Yet, the mechanisms regulating these changes remain unknown. It has been recently documented that sperm (but not oocytes) epigenetic signatures are maintained in the embryos of zebra fish, if this was conserved in other fish the consequences of farm-wild introgression could be more profound than previously thought. Epigenetics mechanisms explain how heritable (and potentially reversible) changes in gene expression can contribute to phenotypic diversity in populations through mechanisms that do not alter the underlying genetic code. This opens the door to a new potential vehicle of farm-wild interactions: epigenetic introgression that could further compromise locally adapted salmon populations. This project will provide data to clarify whether rearing in captivity can translate in epigenetic changes in the sperm of *A. salmon* that can be maintained in the embryo, representing a vehicle of introgression between farm and wild populations.

The project is funded by BBSRC-NERC and the post is available for 12 months starting November 2015 (although there is certain flexibility in the starting date) and based in Swansea University (Dr Sonia Consuegra, Prof Carlos Garcia de Leaniz) in collaboration with the University of Highlands and Islands (Prof Eric Verspoor,

Voyer Dr Mark Coulson). At Swansea the Fellow will join a dynamic group (3 postdocs, 7 PhD students) working on a range of topics in Evolutionary Ecology including epigenetic basis of fish domestication, genetic and epigenetic basis of disease resistance under inbreeding, novel methods for detection of invasive species and modelling of dispersal.

Application deadline is the 5th of October and details on how to apply can be found at: <http://www.swansea.ac.uk/personnel/jobs/details.php?nPostingID=2534&nPostingTargetIDD99&optionR&sort=1&ID=QHUFK026203F3VBQB7VLO8NXD&LOV4x14&JOBADLG=UK&Resultsperpage=1&lg=UK&mask=suext>

Informal enquiries can be directed to

Sonia Consuegra (s.consuegra@swansea.ac.uk)-

Carlos Garcia de Leaniz
(c.garciadeleaniz@swansea.ac.uk)

Dr. Sonia Consuegra

Dept Biosciences College of Science Swansea University
Singleton Park SA2 8PP Swansea

Tel. +44 (0) 1792 602931 Email. S.Consuegra@swansea.ac.uk <http://www.swansea.ac.uk/staff/science/biosciences/s.consuegra> https://www.researchgate.net/profile/Sofia_Consuegra <http://www.aquainvaded.com/http://aquawales.wix.com/aquawalescluster> "CONSUEGRA S." <s.consuegra@swansea.ac.uk>

SyracuseU PlantEvolution

A post-doctoral position is available in the laboratory of Jannice Friedman, in the Department of Biology at Syracuse University. Work in our lab is focused on the evolution of reproductive strategies in plants, and understanding both the genetics and ecology of divergent reproductive strategies. The advertised position is for an NSF-funded project studying sexual selection in plants with different mating and pollination systems.

The research focuses on the mechanisms of sexual selection in plants. We are interested in the following questions: Do females show choice for particular male gametophytes, and does this vary with pollen load and genetic identity of female and male gametophytes? Do components of sexual selection differ for wind versus

animal pollinated species, and outcrossing versus selfing species? The project will use an experimental approach to investigate interactions between the growing pollen tubes and stylar tissue and individual ovules. In addition the research will use a phylogenetic comparative context to understand the strength and evolution of sexual selection, by utilizing diversity in pollination and mating system in the genus *Thalictrum*.

The Department of Biology at Syracuse University has a strong concentration in evolutionary and plant ecological research with opportunities for interaction and collaboration. The Friedman Lab is part of the new Center for Reproductive Evolution, with core strengths in sexual selection and female/male interactions, spanning evolutionary genetics and genomics, proteomics and behavioral evolution. Opportunities exist to develop new research, and the successful candidate will be encouraged to develop and pursue novel and exciting questions. We are located in the recently built Life Science Center, which includes modern lab, greenhouse and computational facilities.

The position is available for 2 years, and will include a competitive salary and full benefits. The ideal start date will be early 2016. Interested candidates should contact me by email at friedman@syr.edu and include: a brief description of past research accomplishments and interests, CV, and contact information for three referees. Applications will be accepted until the position is filled.

Jannice Friedman Assistant Professor Department of Biology Syracuse University 107 College Place Syracuse NY 13244 315.443.1564 friedman@syr.edu <http://friedmanlab.syr.edu> jannicefriedman@gmail.com

TexasAMU EvolutionaryGenomics Mutation

TexasAMU EvolutionaryGenomics Mutation

Postdoctoral research position in *Caenorhabditis elegans* evolutionary genomics available in the laboratory of Vaishali Katju, Texas A&M University.

The Katju Lab, recently relocated to Texas A&M University, is recruiting a postdoctoral research scholar to join our team. We seek a highly motivated recent Ph.D. graduate in the area of computational evolutionary genomics to investigate the genome-wide molecular impacts of spontaneous mutation in the model nematode, *Caenorhabditis elegans*. You will have access to fully-sequenced genomes of 85 long-term spontaneous mutation accumulation lines of *C. elegans* to quantify the role of different classes of mutation and varying intensities of selection on standing genetic variation and the downstream functional and phenotypic consequences, thereof.

The successful applicant will have a Ph.D. in Bioinformatics, Evolutionary Genetics or a related field and a strong publication record. Preference will be given to individuals proficient in programming languages with experience in analyzing next-generation sequence data in an evolutionary context. Previous experience in working with *C. elegans* would be a plus.

Interested applicants should send an electronic version of their cover letter, CV, statement of research interests and contact information for three referees comprising a single pdf file to vkatju@cvm.tamu.edu. The initial appointment will be for one year, with renewal contingent on satisfactory performance and availability of research funding. For further information on the Katju lab in the Department of Veterinary Integrative Biosciences in the College of Veterinary Medicine and Biomedical Sciences, please visit our website at <http://katjulab-tamu.sandvox.net>. Review of applications will begin immediately and continue until the position is filled. Salary will be commensurate with experience and includes generous benefits.

Texas A&M University (TAMU) is a research-intensive flagship institution and home to a large and vibrant student body of over 55,000 students. Located in College Station, Texas TAMU is in proximity to leading research institutions in Houston and Austin. The Ecology and Evolutionary Biology (EEB) and Genetics intercollegiate, inter-departmental graduate programs at TAMU bring together faculty with common research interests from diverse departments to foster research collaborations and interdisciplinary training. The Texas A&M Agrilife Genomics and Bioinformatic Service functions to serve the next generation sequencing (NGS) and bioinformatic needs of the TAMU system and broader scientific community.

Vaishali Katju Associate Professor Texas A&M University Website: <http://katjulab-tamu.sandvox.net/> Email: vkatju@cvm.tamu.edu

"VKatju@cvm.tamu.edu" <VKatju@cvm.tamu.edu>

TexasAMU MolPopGenomics

POSTDOCTORAL RESEARCH SCHOLAR - MOLECULAR POPULATION GENOMICS/ECOLOGY

Location: Marine Genomics Laboratory - A new, collaborative, state-of-the-art facility established for population genomic studies of marine organisms, located in the Harte Research Institute at Texas A&M University-Corpus Christi, Corpus Christi, Texas 78412.

Responsibilities: Position responsibilities involve development and assay of nuclear-encoded single nucleotide polymorphisms (SNPs), microsatellites, and mitochondrial DNA sequences for projects involving population genomics and molecular ecology, primarily of marine fishes. Central responsibilities include data acquisition and analysis, and preparation of reports and publications.

Qualifications: Dissertation or postdoctoral work in molecular population genetics and/or molecular ecology is required, as is documented experience with microsatellite and mtDNA data acquisition and analysis. Documented experience with major software programs (e.g., ARLEQUIN, GENEPOP, MIGRATE, LDNE, etc.) also is required. Individuals with documented experience in analysis of next-generation-sequencing data, primarily RAD-seq and genome assembly, will be given highest priority. Applicants should be ambitious, able to work collaboratively with other group members, and capable of taking initiative and assuming responsibility.

Salary: Salary range is from \$42,500/year and will depend on experience. Benefits include health care and retirement. Position is for 12-24 months.

Closing date: Position will remain open until filled.

Contact: Send curriculum vitae, description of research experience/interests, and names, addresses, phone numbers, and e-mail address of three references to Dr. David S. Portnoy at David.Portnoy@tamucc.edu. International applicants will be considered if they hold the correct visa(s). The Harte Research Institute and Texas A&M University-Corpus Christi are Equal Opportunity/Affirmative Action/Equal Access Employers.

John.Gold@tamucc.edu

UAlberta PinePopGenomics

Postdoc in Pine Population Genomics

An exciting postdoctoral opportunity is available to join the TRIA-Net team to study how the genetics of lodgepole and jack pine influences the spread of mountain pine beetle in the Coltman lab, in collaboration with the Cooke lab, in the Department of Biological Sciences at the University of Alberta (<http://www.biology.ualberta.ca/>) in Edmonton, Canada. TRIA-Net is a team of researchers using ecology, physiology and genomics to study the mountain pine beetle system (<http://tria-net.srv.ualberta.ca/>). This position will lead the analysis of approximately 2000 pine trees, collected across a broad geographic range, typed at 50 000 SNP loci to study adaptation, introgression, and/or genetic interactions with the pest species. Our research will help forest managers and policy makers to arrive at informed decisions on how best to mitigate spread-risk of this destructive forest pest.

The Department of Biological Sciences offers a vibrant research and training environment with outstanding research infrastructure, and the city of Edmonton has the longest connected urban parkland in North America, offering ca. 100 km of trails for biking, hiking, skiing and running.

Qualifications

Ph.D. in population genetics/genomics, molecular ecology and/or related fields

Fluency in written and spoken English

Computational proficiency with bioinformatics, including command-line computing

Canadian citizenship or permanent residents will be given preference

Application Information

To apply please submit a cover letter, CV, and the names and email addresses of three references in a single PDF to Cathy Cullingham (cculling@ualberta.ca).

The salary will be commensurate with experience, but competitive with current scholarships (~\$45 000 CDN), and is available for one year with the possibility of extension.

Review of applications will begin immediately and the

position will remain open until filled.

“dcoltman@ualberta.ca” <dcoltman@ualberta.ca>

UAngers IRHS FungalPathogenSpeciationGenomics

Post-doc position in genomics of introgressions in fungal pathogens

We invite applications for a postdoctoral position in the Research Institute of Horticulture and Seeds (http://www.angers-nantes.inra.fr/irhs_eng/). The position is for 1 year starting as soon as January 2016)

The Postdoc will conduct his research in the field of population genomics of secondary contacts and introgression in two fungal pathogens: *Venturia inaequalis*, an ascomycete responsible of the apple scab, and the *Scedosporium apiospermum* /species complex which is responsible for pulmonary infections in children with cystic fibrosis. The Postdoc will have to identify genomics regions involved in introgression between divergent populations of *Venturia inaequalis* /and *Scedosporium* /species. Indeed, secondary contacts between divergent genomics pools may favour the creation of new genetic combination of loci involved in pathogenicity. New hybrids should then exhibit hitherto unseen epidemiological properties. The Postdoc will work in a team involved in several projects of genetics or genomics, functional genomics, and evolutionary epidemiology (IRHS - ECOFUN team).

Using resequenced genomes (89 for *V. inaequalis* and 23 for the *Scedosporium* /species complex), the Postdoc will be in charge of the assembling, genome aligning and SNP calling, prior to population genomics analyses. The Postdoc will have to infer evolutionary histories at the interspecies and species levels for both datasets, identify and characterise genomic regions involved in introgressions. He will possibly collaborate with all the researchers involved in this project : population geneticists, microbiologists, functional genomicists, phytopathologists.

We are looking for a candidate with a keen interest for population genomics and evolutionary history in structured populations. The candidate must hold a PhD in population genomics with strong skills in bioinformatics (manipulation of NGS data, assembling, demographic inferences). Good written communication skill and ability to work as part of a team are required.

How to apply: Applicants should submit (1) a cover letter describing their research interests and background, (2) a detailed CV (including list of publications), and (3) the contact details of three references to bruno.lecam@angers.inra.fr <<mailto:bruno.lecam@angers.inra.fr>> or christophe.lemaire@univ-angers.fr. The cover letter should also include possible starting dates.

christophe Lemaire <christophe.lemaire@univ-angers.fr>

UArkansas Community Evolution

A full-time Post Doctoral Fellow position in Evolutionary Ecology is available in the Siepielski Laboratory (<https://siepielski.wordpress.com>) housed in the Department of Biological Sciences at the University of Arkansas Main Campus (Fayetteville, AR). The position is available for one year (starting January 2016; start date is flexible), with possibility of extension based on satisfactory performance. The applicant will explore contemporary issues in ecology and evolutionary biology adopting cutting-edge theoretical, observational and experimental approaches.

Summary of job duties. The applicant will conduct field, laboratory and theoretical studies aimed at understanding the contributions of ongoing evolutionary processes in shaping community structure of aquatic invertebrates. The applicant is also expected to oversee daily operations in the lab, organize field studies, prepare reports and manuscripts and present results at scientific conferences.

Minimum requirements: Ph.D. in Natural Resources, Environmental Sciences, Ecology, Evolutionary Biology or related field.

Preferred Qualifications: Demonstrated experience with analyzing large data sets; quantitative genetics, mathematical theory; experimental design. Applicants with backgrounds primarily in theoretical and mathematical approaches are also encouraged to apply. Prior experience in aquatic systems is preferred, but not necessary.

Applications include: Cover letter, CV, research statement, names and contact information of three references. All documents are to be submitted to the online application site: <http://jobs.uark.edu/postings/9447> by December 1, 2015.

Questions can be addressed to Adam Siepielski at am-

siepie@uark.edu.

The University of Arkansas is an Affirmative Action/EOE institution committed to achieving diversity in its faculty and staff. We encourage applications from all qualified candidates, especially individuals who contribute to diversity of our campus community. The University welcomes applications without regard to age, race, gender (including pregnancy), national origin, disability, religion, marital or parental status, protected veteran status, military service, genetic information, sexual orientation or gender identity. All applicant information is subject to public disclosure under the Arkansas Freedom of Information Act and persons must have proof of legal authority to work in the United States on the first day of employment.

Adam M. Siepielski Department of Biological Sciences
University of Arkansas Fayetteville AR, 72701 Ph: 1-479-575-6357 Web: <https://asiepielski.wordpress.com>
Adam Michael Siepielski <amsiepie@uark.edu>

UCalifornia SantaCruz Paleogenomics

PostDoc: UCalifornia.SC_Paleogenomics. PaleopopulationGenetics

Applications are invited for a Postdoctoral Scholar position in the Human Paleogenomics section of the Paleogenomics Laboratory at the University of California Santa Cruz. The Paleogenomics lab uses genomic data isolated from archaeological human remains to better understand the population history of our species and how genetic diversity is generated and maintained within populations through time. We are especially interested in the role of the interaction of culture and biology in the formation and maintenance of human genetic variability. The Human Paleogenomics section is directed by Professor Lars Fehren-Schmitz (Department of Anthropology). The section was established recently and joined the UCSC Paleogenomics Lab, directed by Professors Beth Shapiro (Department of Ecology and Evolutionary Biology) and Richard Green (Department of Biomolecular Engineering). Together we combine experimental and computational approaches to address a variety of paleogenomics topics.

We seek a Postdoctoral Scholar to participate in an NSF funded collaboration project with the George Washington University and the Yale University whose general

goal is to reveal the impact of the expansion of late pre-Columbian state societies (e.g. Inca) on the genetic structure of Central Andean populations. Beyond this general point we are interested in approaching a number of other factors relevant for the population history of South America using paleogenomic tools, including health/ disease and human adaptation to stress factor acting in high altitude. The Postdoctoral Scholar will be expected to use paleogenomic and population genetic/computational techniques to explore the population history of South America and beyond and preferably be interested in developing/adapting new statistical approaches to allow population differentiation in low diversity environments. Beyond that all members of our lab are encouraged and supported to develop their own project ideas. The successful candidate will attend and participate in lab meetings and journal clubs, and will work cooperatively with a team of scientists, including molecular biologists, archaeologists, biological anthropologists, historical linguists, ethno-historians and biostatisticians.

We have a preference for candidates with experience and expertise in paleogenomics, especially individuals with experience in population genetic approaches to the statistical analysis of genome wide ancient DNA data, and excellent organizational, verbal communication, and collaboration skills and willingness to travel to field sites and museums.

BASIC QUALIFICATIONS: A Ph.D. in biological anthropology, evolutionary biology, genomics, population genetics, bioinformatics, or other relevant fields; laboratory (wet lab or computational) experience; demonstrated record of research and publication; and experience with next-generation sequencing and analysis of paleogenomic NGS data, including phylogenetic and population genetic approaches to the statistical analysis of genomic data.

PREFERRED QUALIFICATIONS: The ideal candidate has experience in the analysis and manipulation of large, population genomic data sets, has programming skills and familiarity working in a UNIX environment. Active wet lab work is not mandatory for this position but experience with ancient DNA extraction, PCR amplification, genomic library preparation, and DNA sequencing protocols would be a plus. Learn More More information about this recruitment: http://apo.ucsc.edu/-academic_employment/jobs/JPF00312-16T.pdf *Open date: *September 18th, 2015 *Next review date: *October 30th, 2015 Apply by this date to ensure full consideration by the committee. *Final date: *July 31st, 2016

Dr. Lars Fehren-Schmitz Assistant Professor An-

thropology Department & UCSC Human Paleogenomics Lab U.C. Santa Cruz 1156 High Street Santa Cruz, CA 95064 Phone: +1 (831)- 459-3851 Email: lfehrens@ucsc.edu HP: <http://ucschpg.wordpress.com/> Lars Fehren-Schmitz <lfehrens@ucsc.edu>

UCollegeLondon XenacoelomorphGenomics

Dear Colleagues

Very grateful if you could bring this to the attention of any suitable candidates

Sincerely Max Telford

Research Associate/Senior Research Associate University College London - Genetics Evolution and Environment Location: City Of London Salary: £33,353 to £48,873 per annum , inclusive of London Allowance. Hours: Full Time Contract Type: Contract / Temporary

Placed on: 15th September 2015 Closes: 15th October 2015 Job Ref: 1490550

The Telford Lab in the Research Department of Genetics, Evolution and Environment is seeking to appoint a Research Associate or Senior Research Associate to join a team funded by an ERC advanced grant studying the evolution of the marine invertebrate Xenoturbella and the related Acoelomorpha. The interdisciplinary project aims to use next-generation sequencing data to perform de novo assembly, annotation and interpretation of genomes and transcriptomes of several species of xenacoelomorphs. The post holder will work on developing methods to make sense of the genome resources from this newly identified phylum of deuterostome in the context of their surprising evolutionary history.

This post may be appointed as either a Grade 7 Research Associate or a Grade 8 Senior Research Associate dependent on demonstrable skills and experience within the specific grade criteria.

This post is initially funded until 31 May 2018

For Grade 7 applications, applicants will have a PhD (awarded or about to be awarded) in a relevant area. Appointment at Grade 7 is dependent upon having been awarded a PhD; if this is not the case, initial appointment will be at research assistant Grade 6B (salary £29,193 - £30,783 per annum) with payment at Grade 7 being backdated to the date of final submission of the

PhD thesis. The ideal candidate will have a good knowledge in bioinformatics with a particular focus on comparative genetics. The post holder should have proven knowledge and track record of high quality research in areas including evolutionary biology, bioinformatics and comparative genomics. You should have ability to perform experiments within the research objectives of the proposed project, under the guidance of the Principal Investigator.

For Grade 8 applications, candidates will have a PhD in a relevant area. The ideal candidates will have a good knowledge of bioinformatics and with a particular focus on comparative genetics. Extensive proven knowledge and track record of high quality research in areas including evolutionary biology, bioinformatics and comparative genomics. The post holder will demonstrate well-developed leadership, management and influencing skills and have experience of designing a research programme and the ability to efficiently oversee the setting up and running of the planned experiments, ensuring that experiments are appropriately supervised and supported. You will also possess the ability to present results at local, national and international levels.

Applicants should apply online. To access further details about the position and how to apply please click on the Apply button below.

For informal queries about the posts, please contact Professor Max Telford, email: m.telford@ucl.ac.uk

We particularly welcome female applicants and those from an ethnic minority, as they are under-represented within UCL at this level.

UCL Taking Action for Equality

Max Telford Professor of Zoology Department of Genetics, Evolution and Environment, University College London, Darwin Building, Gower Street, London WC1E 6BT, UK. Tel: +44 (0)20 7679 2554 (Internal: 32554) Fax: +44 (0)20 7679 7096 <https://www.ucl.ac.uk/gee/gee-staff/academic-staff/index/max-telford> a new open access journal EvoDevo: <http://www.evodevojournal.com/>

Telford & Littlewood: Animal Evolution. OUP < <http://ukcatalogue.oup.com/product/9780199570300.do> >

Software to align Nucleotide sequence according to Amino Acid translation TranslatorX < <http://www.translatorx.co.uk> >

Xenoturbella You Tube video < <http://uk.youtube.com/watch?v=yJXNcoxL2Xs> >

The Linnean Society of London < <http://www.linnean.org/> >

“Telford, Max” <m.telford@ucl.ac.uk>

U Edinburgh EvolGenomics

Postdoctoral research position in *Chlamydomonas* evolutionary genetics.

We are seeking a postdoctoral researcher to join our team investigating the impacts of spontaneous mutation on fitness in the model alga, *Chlamydomonas reinhardtii*. Peter Keightley’s and Nick Colegrave’s BBSRC-funded project aims to understand the link between genotype and phenotype, specifically how random changes in the genome affect quantitative traits and ultimately fitness. This research capitalises on over 100 fully sequenced mutation accumulation lines of *C. reinhardtii*. The research includes the molecular marker-based analysis of recombinant mutation accumulation lines of *C. reinhardtii* to determine the distribution of fitness effects of individual mutations. In addition, we are seeking a candidate interested in applying methods in evolutionary genomics to investigate the fitness effects of mutations in wild populations using whole-genome sequences of individuals collected from nature.

Candidates should have or will shortly obtain a PhD or equivalent in a relevant subject, as well as a proven ability in molecular genetics, particularly molecular marker genotyping, and experience of the statistical analysis to biological data.

Within the aims of the project there will be opportunity to develop ideas relating to the impacts of mutation on fitness. The grant includes generous funding to attend international conferences. The position is for 21 months from 01/12/15.

Apply:

<https://www.vacancies.ed.ac.uk/> Vacancy Ref : 034266
Closing Date : 14-Oct-2015

Informal enquiries:

Professor Peter Keightley Institute of Evolutionary Biology University of Edinburgh West Mains Rd Edinburgh EH9 3FL UK

peter.keightley@ed.ac.uk <http://www.homepages.ed.ac.uk/pkeightl/>
“peter.keightley@ed.ac.uk” <peter.keightley@ed.ac.uk>

U Georgia EvolutionStressResistance

A postdoctoral position studying abiotic stress resistance in sunflower and related, stress-adapted species is available in the Burke lab at the University of Georgia. This position is part of a collaborative project that seeks to understand the genomic and physiological basis of resistance to drought, salt, and low nutrient stress in a fascinating study system. The ideal candidate will have a strong background in population and/or quantitative genetics with experience handling and analyzing large, genome-scale datasets.

Funds are currently available to support this position over multiple years. The preferred start date is January 2016, though the actual start date is somewhat flexible. Review of applications will begin immediately and will continue until the positions are filled.

To apply, please send your CV, a brief statement of research interests, and the names and contact information for three references to: jmburke@uga.edu

Informal inquiries are also encouraged. Additional project details are available upon request.

Information about the UGA Dept of Plant Biology can be found at: <http://www.plantbio.uga.edu/> Information about the Burke lab can be found at: <http://www.theburkelab.org/> John M. Burke, Ph.D.

Tel: 706.583.5511 Fax: 706.542.1805 <http://www.theburkelab.org/> University of Georgia Department of Plant Biology Miller Plant Sciences Athens, GA 30602

“jmburke@uga.edu” <jmburke@uga.edu>

U Illinois UnderrepresentedSTEM PlantEvolution

Department of Plant Biology University of Illinois at Urbana-Champaign

Dear Colleagues,

I am writing to highlight an unusual postdoc opportunity in our department. We are seeking postdoctoral

researchers from traditionally under-represented groups in STEM fields. The position is for one year, renewable for up to three years. The goal of this program is to advance the career of minority scientists to the point where they are competitive for faculty positions (including potentially at Illinois).

We are particularly interested in recruiting a postdoc in landscape/ecosystem ecology and ecological modeling, although the disciplinary field is open. Please let me know if you identify any potential candidates.

Thanks for your help, Best regards, Jim

Post-Doctoral Research Associate The Department of Plant Biology is accepting applicants for Post-Doctoral Research Associates for one-year appointments (renewable up to 3 years). The Department seeks researchers to promote NSF's goal of broadening the participation of traditionally underrepresented and diverse groups.

Post-Doctoral Research Associates are expected to be in residence for the duration of the appointment and are expected to conduct research in an established lab with some independent research encouraged. A faculty mentor will be assigned.

Minimum Qualifications: Ph.D. or equivalent terminal degree is required. Individuals working toward a Ph.D. will be considered, but candidate's dissertation must be defended and deposited prior to their appointment.

Letters of interest can be sent to Rayme Dorsey, rdorsey@illinois.edu and should include the following:

- curriculum vitae;
- research areas of interest and specific research plans (if known)
- graduate transcripts (copies are acceptable, but official transcripts may be requested at a later date);
- contact information for three professional references who can emphasize the unique perspective the candidate might contribute to the candidate's field; and
- possible faculty mentors in Department that fit with candidate's interests (if known).

When reviewing applications, faculty reviewers will evaluate candidates according to the following criteria:

- academic accomplishments,
- strength of their research proposal,
- potential for faculty careers that will contribute to fostering diversity and equal opportunity,
- identification of appropriate research oversight mentor and the mentor's potential to work productively with the candidate,
- candidate's commitment to equity and diversity in higher education.

Illinois is an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, religion, color, national origin, sex, sexual orientation, gender identity, age, status as

a protected veteran, or status as a qualified individual with a disability.

Illinois welcomes individuals with diverse backgrounds, experiences, and ideas who embrace and value diversity and inclusivity. (www.inclusiveillinois.illinois.edu). The University of Illinois conducts criminal background checks on all job candidates upon acceptance of a contingent offer.

- Jim Dalling Professor & Head Department of Plant Biology University of Illinois 265 Morrill Hall 505 South Goodwin Ave Urbana, Illinois 61801

Telephone: 217 244 8914 www.life.uiuc.edu/dalling
Katy Heath <kheath@life.illinois.edu>

UMassachusetts Amherst PlantEvoDevo

A postdoctoral position is available in the Bartlett lab at the University of Massachusetts Amherst. Research in our lab is focused on the development and evolution of flowers and floral genes, using the grasses maize and *Brachypodium distachyon* as our model systems. The successful applicant would work on a molecular evolution project, assessing the genome-wide consequences of protein-protein interaction evolution in maize. The project will involve the analysis of next-generation sequence data already on-hand, as well as the generation and analysis of new NGS datasets. Depending on the interests and expertise of the person hired, this project could also involve confocal and/or scanning electron microscopy, and the generation and analysis of proteomic and protein-binding microarray data.

A keen interest in plant development and evolution is essential, as well as a strong desire to learn new techniques. Applicants must have a Ph.D. in plant biology, molecular biology, or a similar field of study, conferred within the last six years. A candidate with experience in one or more of the following fields/techniques would be preferred: 1. Generating and analyzing genomic datasets (e.g. for ChIP-Seq or RNA-Seq experiments). 2. Molecular lab experience working with DNA, RNA, and protein. 3. Confocal and/or scanning electron microscopy. 4. Working with maize and/or *Brachypodium*.

UMass Amherst is home to a vibrant research community, with strengths in genomics, molecular biology, plant biology, and evolutionary biology. Opportunities exist both to learn a range of cutting edge

experimental and analytical methods, and to develop new research projects. The Pioneer Valley, where the town of Amherst is located, is a great place to live and work. The area is naturally beautiful, and UMass Amherst is part of a consortium of five colleges in the area (www.fivecolleges.edu), making for an intellectually rich environment.

This position is available for one year, and may be renewable depending on funding and performance. The position is available immediately, but the start date is negotiable. Interested candidates should contact me by email (mbartlett@bio.umass.edu) and include a cover letter, a CV, and contact information for three references. Applications will be reviewed as they are received, and the position will remain open until the position is filled.

Madelaine Bartlett Assistant Professor Biology Department 108 Morrill Science Center South 611 North Pleasant Street University of Massachusetts Amherst Amherst, MA 01003 www.bio.umass.edu/biology/-bartlett/ phone: 413-545-2235

madelaine.bartlett@gmail.com

UMassAmherst TomatoFruitTraitGenomics

POST-DOCTORAL POSITION ON GENOMICS OF FRUIT TRAITS IN WILD AND DOMESTICATED TOMATOES, University of Massachusetts Amherst

The Caicedo Lab at the University of Massachusetts Amherst (UMass Amherst) seeks a Postdoctoral Research Associate to perform research on the genomic and evolutionary basis of fruit quality traits important during tomato domestication. Work will be performed under the guidance and supervision of the Principal Investigator, in collaboration with colleagues at University of Georgia, University of Florida, Cornell University, and Polytechnic University of Valencia.

This is a benefited, full-time Postdoctoral Research Associate position. Initial appointment is for one year; reappointment beyond the first year is contingent upon availability of funding and job performance. Primary responsibilities will include, but are not limited to, genome scans of domesticated and wild tomatoes; morphological and biochemical phenotyping of tomato samples; genome-wide association mapping for various fruit traits; and confirmation of loci affecting relevant fruit traits.

The successful candidate is required to have a Ph.D. in population genetics, bioinformatics, or a related field by the start of the position. The candidate must have experience with molecular evolutionary analyses and programming, interest in working with next-generation sequencing data, and excellent written and oral communication skills. Previous work with plants is desirable but not required.

Postdoctoral Research Associates at the University of Massachusetts are unionized and receive standard salary and benefits, depending on experience. Salary is subject to bargaining unit contract.

Candidates must apply online by submitting a cover letter, CV, summary of research interests, and the contact details of three references willing to provide letters of recommendation to: <http://umass.interviewexchange.com/-jobofferdetails.jsp?JOBID=63565> Questions can be addressed to Dr. Ana Caicedo at caicedo@bio.umass.edu.

Review of applications will begin September 24, 2015 and continue until the position is filled. Applications received by September 24th will be given priority consideration.

The University of Massachusetts Amherst is an Affirmative Action/Equal Opportunity Employer of women, minorities, protected veterans, and individuals with disabilities and encourages applications from these and other protected group members.

Ana Caicedo <caicedo@bio.umass.edu>

UMichigan ComputEvolGenomics

Postdoctoral Position in Computational Evolutionary Genomics at University of Michigan

A postdoctoral position is available in the lab of Jianzhi "George" Zhang. The postdoctoral fellow will analyze genomic and other high-throughput data to address evolutionary questions. Potential topics include but are not limited to (1) molecular and genomic basis of adaptation, (2) (3) driving forces of transcriptome evolution, and (3) evolution of posttranscriptional modifications/regulations such as RNA editing, alternative splicing, stop codon readthrough, and translational regulation. The position requires a motivated individual with an interest in evolution and experience in analyzing next-generation sequence data. Applicants should email a cover letter, CV and contact information of

three references to jianzhi@umich.edu. The initial appointment will be for one year, but the appointment is renewable contingent on satisfactory performance and availability of funding. For further information about the Zhang lab, see <http://www.umich.edu/~zhanglab/>. "jianzhi@umich.edu" <jianzhi@umich.edu>

UOxford 2 EvolutionAntibioticResistance

Postdoctoral positions: Evolution of antibiotic resistance in clinical pathogens

Two postdoctoral positions are available at the University of Oxford to work with Craig MacLean on the evolutionary biology of antibiotic resistance in pathogenic bacteria. The overarching goal of this project is to understand the evolutionary drivers of antibiotic resistance in clinical pathogens populations using a combination of approaches from experimental evolution, clinical microbiology, and population genetics.

Postdoc 1 (experimentalist) will study the evolutionary dynamics of resistance using assays of time series of sequenced isolates of *P.aeruginosa* and *S.aureus* collected from individual patients combined with experimental evolution using clinical isolates. Successful applicants for this post will have previous experience in experimental evolution, and will ideally have experience in bacterial molecular genetics.

Postdoc 2 (population genetics/bioinformatics) will study population and molecular genetics of resistance using whole genome sequences of isolates from clinical samples and selection experiments. Successful applicants for this post will have previous experience in population genetics and analyzing bacterial sequence data from NGS platforms.

These posts will be funded by a large grant from the Wellcome Trust, and successful applicants will be offered a 3 year contract, with a possible extension for a further 2 years. Postholders will be given the opportunity to contribute to the development and of this project, and these positions are ideally suited for ambitious researchers with good team-work and leadership skills.

Further information on research in my lab and links to the application forms can be found at <https://macleanlab.wordpress.com/opportunities/> Salary grade 7: 30,434-40,847 Â£ p.a.

Enquiries with C.V and requests for further particulars should be sent to craig.maclean@zoo.ox.ac.uk

The closing date for this application is noon September 30

Craig MacLean

Royal Society University Research Fellow and Associate Professor

University of Oxford, Department of Zoology

Craig MacLean Royal Society University Research Fellow Associate Professor of Evolutionary Biology University of Oxford, Department of Zoology South Parks Road, Oxford OX1 3PS Office: +44(0)1865281062 Mobile:+44(0)7703327882 Website: <https://macleanlab.wordpress.com> Follow my work on Twitter @CraigMacLean9

Craig Maclean <craig.maclean@zoo.ox.ac.uk>

UPennNCStateU HoneyBeeGenomics

Postdoctoral position in honey bee sociogenomics and breeding

A postdoctoral researcher position is available for a USDA-AFRI funded project that seeks to use artificial selection and sociogenomic approaches to study and ultimately improve honey bee traits associated with queen reproductive quality. This project is a close collaboration between the Linksvayer lab (<http://linksvayer.bio.upenn.edu/>) in the Department of Biology at the University of Pennsylvania and the Tarpay lab (<http://www.cals.ncsu.edu/entomology/apiculture>) in the Department of Entomology at North Carolina State University.

We seek enthusiastic, talented, and driven individuals to carry out the funded research project as well as to conduct related original research. We are especially interested in candidates with experience in one or more of the following: honey bee in vitro rearing or other honey bee research, artificial selection, instrumental insemination, RNA or genome sequencing, evolutionary genetics, and bioinformatics. While the position will be housed in Raleigh at NC State University, the project will present opportunities to work at both universities to gain expertise in these and other approaches. The start date is flexible but can begin January 2016. Applications will be considered as they arrive until the

position is filled. Funding is available for multiple years, contingent on satisfactory progress. To apply, send your CV, a short statement of research interests, contact information for three references, and optionally a representative paper or manuscript to Tim Linksvayer at tlinks@sas.upenn.edu. Please contact Tim Linksvayer or David Tarpay (david_tarpay@ncsu.edu) for further information.

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Timothy Linksvayer Assistant Professor Department of Biology, University of Pennsylvania 225 Leidy Laboratories, 433 South University Avenue Philadelphia PA 19104-6018 tlinks@sas.upenn.edu phone +1 215 573 2657 <http://www.bio.upenn.edu/faculty/linksvayer/> tlinksvayer@gmail.com

UppsalaU GenomeEvolution

POST-DOCTORAL POSITION IN EUKARYOTE GENOME EVOLUTION

A two-year postdoctoral position is available in the research group of professor Hanna Johannesson, at the Evolutionary Biology Centre (EBC), Uppsala University.

State-of-the art sequencing technology has opened opportunities to comprehensively investigate structural variants (SVs: such as deletions, insertions, duplications, inversions and translocations) in genomes of natural populations. Such SVs are often associated with gene expression changes and may be of large phenotypic effects. The main goal of this postdoc project is to use sequencing data (e.g. PacBio long read sequence data) for the model system *Neurospora*, emerging from our most recent sequencing projects, to increase our understanding of the impact of SVs for the evolution of eukaryote genomes. In particular, we can use the well-established phylogenetic framework of *Neurospora* to study the accumulation of SVs over evolutionary time, and connect them to characters such as genome size expansion/retraction, mating-system transition and speciation. By combining comparative genomic, phylogenetic and population genetic analyses, the evolutionary significance of SVs in natural populations can be traced. The project will be developed after the interest of the applicant, but should encompass a perspective of genome evolution addressed by bioinformatic/genomic approaches.

Applicants should have a PhD in biology/evolutionary biology and have documented experience in bioinformatics. Documented skills in comparative genomics, molecular phylogenetics and/or population genetics is highly valued.

Start date is flexible, ideally January 1, 2016. The position can be extended for up to two more years.

Please send your application materials by September 25 to Hanna.Johannesson@ebc.uu.se. The application shall include: 1) a cover letter stating research interests, 2) a CV, including publication record, 3) a short (1-2 page) description of research accomplishments, and 4) name and contact information for three references.

Please feel free to contact me at the above listed e-mail with questions.

Hanna Johannesson <Hanna.Johannesson@ebc.uu.se>

USaskatchewan GrassBioinformatics

Postdoctoral position in evolutionary bioinformatics and grass genomics

A postdoctoral fellowship in evolutionary bioinformatics and grass genomics is available in the Department of Plant Sciences at the University of Saskatchewan. We are looking for a motivated researcher with a background in evolutionary bioinformatics of RNA-seq data and/or with computer programming skills. The successful candidate will be involved in a perennial grass genomics project to characterize genes related to crested wheatgrass flowering time. Specifically, the successful candidate will be involved in a series of RNA-seq experiments and will perform evolutionary bioinformatics analyses to evaluate the transcriptomic responses of crested wheatgrass lines and diverse germplasm of differing maturity. The candidate will be involved in preparation of research reports and manuscripts for publications.

The starting salary will be commensurate with experience and qualifications. The position is a 2-year full time contract. The expected start date is April, 2016. Location of the research work will be at the Molecular Genetics Lab at Agriculture and Agri-Food Canada Saskatoon Research Centre (Dr. Yong-Bi Fu), and at the Forage Breeding Lab at the University of Saskatchewan (Drs Bruce Coulman and Bill Biligetu).

Screening of applications will continue until the position is successfully filled. Only candidates that are interviewed will be notified. Please send a covering letter,

a full curriculum vitae (CV), and two letters of references to: Dr. Bill Biligetu, Crop Development Centre, University of Saskatchewan, 51 Campus Drive S7N5A8, Email: Bill.biligetu@usask.ca

Bill

Bill Biligetu Ph.D, P. Ag

Assistant professor - forage crops breeding Crop Development Centre, University of Saskatchewan 51 Campus Drive, Saskatoon SK S7N 5A8

Tel: (306)966-4007, Fax: (306)966-5015 Email: Bill.Biligetu@usask.ca

“Biligetu, Bill” <bill.biligetu@usask.ca>

USDA Newark Delaware Parasitoid Evolution

The U.S. Department of Agriculture (USDA), Agricultural Research Service (ARS), North East Area is seeking highly qualified candidates for a Post-Doctoral Research Associateship (GS-11 Geneticist/Biologist/Entomologist) at the Beneficial Insect Introductions Research Unit in Newark, Delaware. Salary range of \$62,476 to \$ 81,219.

The position involves research on the evolution and genetics of host specificity of parasitoids in the genus *Aphelinus*. This will involve mapping QTL (quantitative trait loci) associated with differences in host specificity, analysis of *Aphelinus* genomes and transcriptomes for sequence and expression differences that indicate divergent selection, and genetic mapping of divergent genes to determine whether they are associated with QTL. The research will also involve analysis tissue- and stage-specific expression of divergent genes and knockout of these genes to determine whether they indeed affect host specificity.

For application details, see the vacancy announcement RA-15-062-H on the USAJOBS Website (<https://www.usajobs.gov/GetJob/ViewDetails/417270800>).

U.S. citizenship is required. Applications will be accepted until the position is filled.

USDA/ARS is an equal opportunity employer and provider. If you have questions, contact Dr. Keith Hopper, phone: +1-302-731-7330 ext 238, email: Keith.Hopper@ars.usda.gov.

Keith Hopper <khopper@udel.edu>

UTrento Behavioural Evolution

Postdoc position on behavioural evolution/chemical ecology of *Drosophila*

A Postdoc position on behavioural evolution/chemical ecology of *Drosophila melanogaster* and *Drosophila suzukii* is available at the Center for Mind/Brain Sciences (University of Trento, Italy) from December 2015. The project focuses on the behavioural, perceptual and evolutionary bases of olfactory differences in an innocuous (*D. melanogaster*) and a pest species (*D. suzukii*), with important implications for both basic and applied research. The project has already started and there are many possibilities to extend the current studies on the behavioural, neurobiological and genetic components of interspecific differences. A PhD in neuroscience/agricultural studies/biology or related disciplines is required. Experience with insect models is an advantage. The laboratory is fully equipped and offers an exciting international and interdisciplinary work environment (<http://r.unitn.it/en/cimec/nphys/people#PostDocs> ; <http://r.unitn.it/en/cimec/abc/abc-team-members>). If interested in the job, please send a motivation letter, CV, publications, and e-mail addresses of two academic referees to prof. Albrecht Haase: albrecht.haase@unitn.it For any question, do not hesitate to contact us: elisabetta.versace@unitn.it

Elisabetta Versace, PhD

University of Trento Center for Mind/Brain Sciences ACN lab - Animal Cognition and Neuroscience Laboratory Piazza della Manifattura 1, 38068 Rovereto (TN), Italy Phone: + 39 0464 808658 Mobile: +39 3498744279

Workshop: Insect models of Behavior: ecology, genetics, evolution, pest management. Rovereto (Italy), 4th September 2015 <http://www.unitn.it/cimec-insectmodels> elisabetta.versace@unitn.it

UTurku EvolutionMaternalEffects

Postdoc position: Maternal thyroid hormones in birds - ecology, evolution and environmental disruption (3/2016-8/2018 with possible extension)

A post-doctoral position is available at the Section of Ecology, University of Turku, Finland, to work in the group of Dr. Suvi Ruuskanen on a project on the significance of maternal thyroid hormones in birds in an ecological context.

PROJECT DESCRIPTION Maternal effects are a crucial mechanism in many taxa to generate phenotypic variation, thereby affecting offspring development and fitness. In this new project, funded by the Academy of Finland, we will study the function, environmental plasticity and evolutionary correlates of maternally-derived egg thyroid hormones in birds. We also study the potential for pollutants and artificial light as thyroid function disruptors. Research methods include international large-scale inter- and intraspecific sample collection and experimental manipulation of hormones and environmental conditions, in collaboration with multiple leading research groups.

DUTIES This postdoctoral position will involve setting up and conducting hormonal assays, running experiments with captive birds and field populations (in Finland and potentially in NL/Chile) with the rest of the team, analyzing data and manuscript preparation.

QUALIFICATIONS Suitable candidates should have a Ph.D. in physiology, ecophysiology, behavioral or evolutionary ecology by the time of starting the position, strong background in laboratory assays, preferably RIAs, experience in running animal experiments and a strong publication record. Experience in endocrinology and maternal effects and working with birds is appreciated. We are seeking a very autonomous, highly motivated, innovative, productive person, who will be willing to gain experience both in the lab and in the field and contribute intellectually to the project development.

HOW TO APPLY Applications and informal inquiries should be directed to Dr. Suvi Ruuskanen (suvi.ruuskanen@utu.fi; Section of Ecology, Department of Biology, 20014 University of Turku, Finland). Formal applications should include an academic CV (with names and contact details of at least two referees) and a max. 2 page letter of motivation (describing their re-

search interests, qualifications and reasons for applying). See <http://www.utu.fi/en/units/sci/units/biology/-research/projects/verg/Pages/SuviRuuskanen.aspx>

The deadline for the applications is October 31st 2015. Starting date is 1st March 2016. The position is available until 31st August 2018 with a potential extension for 1 year. The starting salary is approx. 3140 EUR per month.

Turku, Finland's 5th largest city (183 000 people), is located in southwestern Finland. It has a rich academic and cultural history and is the gateway to a beautiful archipelago. The University of Turku is one of the major multidisciplinary universities in Finland and is ranked in the top 1.6% of universities in the world.

Suvi Ruuskanen <skruus@utu.fi>

UVenda SouthAfrica BioinformaticsPopGenet

Postdoctoral Fellowship in Bioinformatics/Population Genetics

The Molecular Ecology group at the Department of Zoology, University of Venda, is seeking a motivated bioinformatician or population geneticist at the post-doctoral level. The position is funded for a year, and will run from 1 January 2016 to 31 Dec 2016, but with the possibility of extension for a further two years depending on progress. Remuneration will be in line with national funding standards (http://www.nrf.ac.za/sites/default/files/documents/Call_for_funding_NRF_Freestanding_Postdoctoral_Fellowship_2015.pdf). Call for funding NRF Freestanding Postdoctoral Fellowship 2015 NRF Freestanding Postdoctoral Fellowships Call for 2015 1. Background The National Research Foundation (NRF) is an agency mandated by an act of Parliament (Act no Read more...

The University of Venda is located in the remote, tropical north-eastern corner of South Africa. It is the only university in South Africa located within a Biosphere Reserve, and the closest university (only 70km) to the world-famous Kruger National Park. Research within the Vhembe Biosphere Reserve is coordinated through the University. This all makes for an extremely rewarding quality of life, especially for those interested in outdoor/wildlife related activities.

The successful applicant will be required to work closely with an IT/network administrator to set up bioinfor-

matics pipelines for whole genome assembly, genome alignments and standard population genetic analyses. The ability to write and debug code will be essential. The candidate will also be required to analyse existing whole genome data with an aim to elucidating mechanisms of speciation in sub-Saharan Africa under the model of a fluctuating Plio-Pleistocene palaeoclimate.

For further enquiries please contact Prof. Yoshan Moodley: yoshan.moodley@univen.ac.za or send through your application including your CV, publication list and the contact details of three referees. The deadline for applications is the 9th of October 2015.

Yoshan Moodley <yoshan.moodley@mvulaunivenac.onmicrosoft.com>

U Vermont Postdoc EcoDevPhys

Postdoctoral Position in Ecological and Developmental Physiology

A postdoctoral position is available in the Lockwood Lab in the Department of Biology at the University of Vermont to study the effects of environmental stress on early development in *Drosophila melanogaster* and related species. In the Lockwood Lab we work with a diverse set of taxa to understand the mechanisms and origins of molecular physiological responses to environmental change. This postdoctoral position will involve (1) characterizing how environmental change disrupts early developmental processes, and (2) elucidating what mechanisms have evolved to confer stress tolerance during early development. The ideal candidate will have a strong background in developmental biology and a strong interest in ecological physiology. Experience with confocal fluorescence microscopy and live imaging is preferred. Experience working with *Drosophila* is a definite plus. The Lockwood Lab offers a stimulating and collegial research environment, and the successful candidate will have the opportunity to mentor students and to work closely with the PI.

The start date is flexible, but the position can start immediately. Salary is \$40,000, with generous benefits. The initial appointment is for one year with the opportunity to extend an additional year pending performance.

To apply, send a single PDF document with (i) a cover letter, (ii) a statement of research interests, and (iii) your CV to Brent.Lockwood@uvm.edu. In addition, please arrange to have three letters of reference also emailed to Brent.Lockwood@uvm.edu. Review of appli-

cations will begin immediately and continue until the position is filled.

Burlington is a hip, little city surrounded by the lakes and mountains of northern Vermont. The area thrives on local food, international culture, and outdoor activities year-round.

Brent Lockwood Assistant Professor Department of Biology University of Vermont

<http://www.uvm.edu/~bblockwo/> “bblockwo@uvm.edu” <bblockwo@uvm.edu>

U Washington Sexual Selection And Aging

The Promislow lab (<http://www.promislowlab.org>) at the University of Washington is seeking an enthusiastic, independent postdoctoral researcher to work on an NIH-funded project on the biology of mating and aging in *Drosophila*. This study, funded in collaboration with Scott Pletcher at the University of Michigan, examines the shared and disparate evolutionary and genetic factors that shape attractiveness and aging in flies.

The successful applicant will have the opportunity carry out behavioral and systems biological studies. This project integrates behavior, population and molecular genetics, genomics, metabolomics, demography, and network statistical analysis. The ideal candidate will have experience in one or more of these fields.

The position is initially available for two years, and could be extended beyond that pending available funding. The University of Washington policy is to offer a one-year appointment with subsequent renewals. Start date is flexible, though ideally no later than Summer of 2016.

Applications should be sent by Oct 9, 2015 by email to Daniel Promislow (promislo@uw.edu). Applicants are requested to send a single PDF file that includes a cover letter with names and contact information of three references, a CV and one or two representative publications.

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

Daniel Promislow <promislo@u.washington.edu>

UWisconsin-Milwaukee Population Genomics

POSTDOCTORAL POSITION IN POPULATION GENOMICS

A postdoctoral position in population genomics is available in the laboratory of Emily Latch at the University of Wisconsin-Milwaukee. The primary aim of this position will be to investigate mechanisms of adaptive divergence and differentiation in a highly mobile species, mule deer. This will include: 1) analyzing next-generation sequence data to explore patterns of introgression across a complex mule deer x black-tailed deer hybrid zone, 2) relating spatial patterns of adaptive and neutral variation over broad scales using NGS data, and 3) integrating genetic and genomic data in an ecological context to assess broad-scale differentiation in deer.

A PhD in population genetics, molecular ecology, computational biology or related discipline is required. Applicants should have a strong publication record, demonstrable experience in analysis of SNP and next-generation sequence data, and knowledge of at least one major scripting language. Annual salary is \$35,000 - \$40,000/year. Position is for two years, contingent upon satisfactory performance. Starting date is November 1 (negotiable).

Informal inquiries about the project are encouraged. To apply, please send a CV including publications, a brief statement of research interests, and contact information for 3 references to Emily Latch at latch@uwm.edu. Review of applications will begin October 1 and will continue until the position is filled. For more information about the Latch lab see: <http://www.uwm.edu/~latch>. UW-Milwaukee has an active group of researchers studying molecular ecology and behavior: <http://www.preferencefunctions.org/behavioral-molecular-ecology.html>. UWM is an equal opportunity/equal access/affirmative action employer fully committed to achieving a diverse workforce. Applicants from groups traditionally underrepresented in science are especially encouraged to apply.

Emily K Latch <latch@uwm.edu>

UZurich EvolutionFloralSignaling

PostDoc position in genetic bases of floral signaling

A PostDoc position funded by the European Research Council (ERC) is available from October 2015 at the Institute of Systematic Botany, University of Zürich, for an initial one year period with the possibility for prolongation. The position is to study the genetic bases of floral traits in plants, with a special focus on visual and olfactory signals. The aim of the project is to unravel the genetic architecture of floral traits important in adaptation to pollinators using *Brassica rapa* as a model. You should have a PhD degree in any field of (molecular) biology and a thorough interest in evolutionary biology. A good knowledge of quantitative genetic techniques (e.g. QTL, GWAS) is required. Experience with chemical ecology tools (headspace volatile sampling, gas chromatographic analysis) or evolutionary modelling is an advantage. The successful candidate will work in our very well equipped institute in an exciting research environment. The Institute of Systematic Botany at the University of Zürich is located in the pretty botanical gardens and houses modern molecular and chemical ecology labs, including greenhouses and climate chambers for plant cultivation (<http://www.systbot.uzh.ch/en.html>). The University of Zürich has a very broad coverage of organismal and molecular biology, and several research groups work on evolutionary topics (www.lifescience-zurich.ch). The city also offers excellent quality of life through cultural programs and infrastructure, as well as an attractive surrounding (lake, alps).

If you are interested in the job, please send (preferentially by e-mail) a letter describing your motivation, C.V., copy of degrees, publications (manuscripts), and e-mail addresses of two academic referees, by 10th of October 2015. If you have further questions, don't hesitate to contact me.

Prof. Florian Schiestl Institute of Systematic Botany Zollikerstrasse 107 CH-8008 Zürich florian.schiestl@systbot.uzh.ch

Florian Schiestl <florian.schiestl@systbot.uzh.ch>

UZurich **P**DFand**P**HD
Protein**E**volution

PhD thesis in experimental evolution to study protein innovation

A three-year Ph.D. studentship in evolutionary biology is available in the laboratory of Andreas Wagner at the University of Zurich. We are looking for a researcher to study the evolution of new protein functions through directed evolution, and in particular the role that genetic robustness may play for evolutionary innovation in proteins. Lab members are a group with very diverse backgrounds and research projects, unified by their interests in evolution and life's fundamental organizational principles. Ongoing work in the lab ranges from the directed evolution of enzymes to laboratory evolution in *E. coli* and computational analyses of genetic networks (e.g., Hayden et al., *Nature* 2011; Payne and Wagner, *Science* 2014). A sample of the laboratory's research can be found at <http://www.ieu.uzh.ch/wagner/>. The successful candidate will have a strong background in molecular cloning, flow cytometry, and microbiological techniques. Experience with fluorescent proteins and their directed evolution will be a plus. Applicants without a demonstrated interest and research history in evolutionary biology, and without a Masters Degree or equivalent cannot be considered further. We are looking for an individual who is highly self-motivated and can work independently.

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

To be considered, please send a single (!) PDF file merged from the following parts to annette.schmid@ieu.uzh.ch: CV including publication list, academic transcripts, a statement of research interests not exceeding three pages, and three academic references. Please include the word PEVOLPHD15 in the subject line. Applications will be considered until October 15, 2015, or until the position is filled, whichever comes first. The position is available from January 1, 2016.

Postdoc in experimental evolution to study protein innovation

A postdoctoral fellowship in evolutionary biology is available in the laboratory of Andreas Wagner at the University of Zurich. We are looking for a researcher to study the evolution of new protein functions through directed evolution, and in particular the role that genetic robustness may play for evolutionary innovation in proteins. Lab members are a group with very diverse backgrounds and research projects, unified by their interests in evolution and life's fundamental organizational principles. Ongoing work in the lab ranges from the directed evolution of enzymes to laboratory evolution in *E. coli* and computational analyses of genetic networks (e.g., Hayden et al., *Nature* 2011; Payne and Wagner, *Science* 2014). A sample of the laboratory's research can be found at <http://www.ieu.uzh.ch/wagner/>. We are looking for an individual who has received his or her PhD within the last five years, who is highly self-motivated and can work independently on a project that he or she will help develop. The successful candidate will have a strong background in molecular cloning, flow cytometry, and microbiological techniques. Experience with fluorescent proteins and their directed evolution, as well as with computational analysis of DNA sequence data will be a plus. Applicants without a demonstrated interest in evolutionary biology cannot be considered further. The position offers a highly competitive salary of up to three years on annually renewable contracts.

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

To be considered, please send a single (!) PDF file merged from the following parts to annette.schmid@ieu.uzh.ch: CV including publication list, academic transcripts, a statement of research interests not exceeding three pages, and three academic references. Please include the word PEVOLPOSTDOC15 in the subject line. Applications will be considered until October 15, 2015, or until the position is filled, whichever comes first. The position is available from January 1, 2016.

Thank you very much!

Kind regards, Annette

Annette Schmid Administrative Assistant of Prof. A. Wagner University of Zurich Institute of Evolutionary Biology and Environmental Studies Wagner lab, Y27-J52 Winterthurerstrasse 190 CH-8057 Zürich Switzerland Mail to: annette.schmid@ieu.uzh.ch Phone +41 (0)44 635 61 42 Fax +41 (0)44 635 61 44

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>

VanAndelResInst Michigan Bioinformatics

Postdoctoral Researcher

Van Andel Research Institute's Laboratory of Epigenomic Analysis in Human Disease, led by Hui Shen, Ph.D is seeking to hire a Postdoctoral Researcher interested in epigenomic and bioinformatics research.

The Shen Laboratory studies the epigenome, especially its interactions with the cancer genome, to understand the etiology, cell of origin, and epigenetic mechanisms of various diseases and to devise better approaches for cancer prevention, detection, therapy, and monitoring. It is located in the world-class Center for Epigenetics of Van Andel Research Institute in Grand Rapids, Michigan, directed by Dr. Peter A. Jones.

This position is available immediately for a motivated PhD graduate who meets the qualifications and description outlined below, to work on epigenomic data as part of The Cancer Genome Atlas (TCGA), International Cancer Genome Consortium (ICGC) and other teams.

Qualifications

- A Ph.D. (or equivalent degree) with experience and publications in the fields of bioinformatics, biostatistics, genomics, or cancer biology
- The ideal candidate will have experience with genome-scale data analysis and programming, or is highly motivated to learn such skills.

Description of a Successful Candidate

- A highly motivated, self-driven individual pursuing a career in genome biology and bioinformatics
- A logical and critical thinker.
- Good at communication

Position Details

This is a full-time, non-exempt position. Salary will be determined based on Doctorate/MD receipt date and past successes in engaging in productive scientific research, but is highly competitive.

This individual will be eligible for the following benefits:

- Medical, dental and vision coverage
- Employer-sponsored life and AD&D insurance
- Additional voluntary life and AD&D insurance for employees and dependents
- Short-term and long-term disability insurance
- Flexible-spending accounts for health and child/elder care
- 401 K retirement savings plans with employee/employer contributions
- Paid vacation, holidays, personal days

About Van Andel Research Institute

Van Andel Research Institute (VARI), a leading independent biomedical research facility, is dedicated to determining the epigenetic, genetic, molecular and cellular origins of cancer, Parkinson's and other diseases, and translating those findings into effective therapies. The Institute is home to more than 200 scientists and support staff that work in on-site laboratories and in collaborative partnerships that span the globe.

Application Process:

Qualified applicants should provide the following:

1. Cover letter outlining research experience and interests,
2. A curriculum vitae,
3. The names and address of three references.

To apply directly visit: <http://bit.ly/1UqzScM> Eric Miller | Sr. Talent Acquisition Consultant

333 Bostwick Ave., N.E., Grand Rapids, Michigan 49503

Phone: 616-234-5797 | Email: eric.miller@vai.org | Web: www.vai.org VAI on Facebook | VAI on Twitter | VAI on YouTube

"Miller, Eric" <Eric.Miller@vai.org>

WashingtonStateU PlantMicrobe

Postdoctoral Position: Plant-microbe symbiosis and biological invasions

Seeking: a postdoctoral researcher to contribute to an NSF-funded project to examine the ecological and evolutionary forces reshaping plant-microbe symbioses during biological invasions. This research will leverage genomic tools in the model symbiosis between leguminous plants

and nitrogen-fixing symbiotic rhizobium bacteria to examine ecological dynamics and the evolution of cooperation in natural and experimentally evolved invasions (see <http://research.vancouver.wsu.edu/porter-lab>).

Project opportunities: The postdoc will be involved with plant and bacterial population genomics in the Medicago-Ensifer model system, quantitative genetic cross-inoculation experiments in the greenhouse, and studies of ecological dynamics in the field. The postdoctoral researcher will be expected to lead-author peer-reviewed scientific articles and conference presentations.

Location: the postdoc will join the new Microbial Symbiosis Lab at Washington State University, Vancouver. WSUV is a vibrant, rapidly growing institution located within the greater Portland/Vancouver metropolitan area, near the Columbia River, Cascade Mountains and coastal ocean, and as such offers an exceptional quality of life.

Qualifications: PhD in genomics, evolutionary ecology,

microbial biology, and/or plant biology. Demonstrated excellent written and oral English communication skills, including strong record of scientific publication.

Applications are being considered on a rolling basis until the position is filled. Appointment is for one year at full time, with full benefits; expectation of renewal for a second year pending quality performance. To apply, please send a single pdf email attachment with “Microbial Symbiosis Postdoc” in the email subject line. Include a 1-page statement of research interests and experience, a curriculum vitae, copies of relevant publications, and contact information for 3 references, to:

Dr. Stephanie Porter stephanie.porter@wsu.edu School of Biological Sciences Washington State University, Vancouver

Washington State University is an Affirmative Action/Equal Opportunity employer; minorities and women are encouraged to apply.

WorkshopsCourses

BangaloreIndia PopGen Jan25-Feb6	140	Portugal GenomicArchitecture Sep28-Oct1	145
Barcelona PhylogeneticAnalysis Jan25-29	140	Portugal R Nov23-27	146
BioBash workshops	141	Roscoff France EvolutionaryNetworks Jul3-9	146
BocasResStation MarineTaxonomy 2016	141	SanDiego ConservationGenomics Jan9-13	147
Crete ComputationalMolEvol May8-19	141	SanDiego PopulationConservationGenomics Jan9-13	147
CzechRepublic PopGenomics Jan24-Feb5	142	UGroningen EvolutionaryDynamics Nov15-20	148
Glasgow RForBiologists Dec7-10	142	Wageningen AnimalGenomics Oct19-23	148
Iquitos Peru Phylogenomics Jan10-17	143	WageningenU StructuralEquationModelling Dec14-18	149
Iquitos Peru Phylogenomics Jan10-17 Deadline ...	143		
Montreal ABCinEvolution Dec11 CallPapers	144		
Paris ExperimentalEvolution Nov9-13 2	144		

BangaloreIndia PopGen Jan25-Feb6

Dear Colleagues,

We are happy to announce the ‘Second Bangalore school on Population Genetics and Evolution’ (<https://www.icts.res.in/program/upcoming/details/362/>). This school aims to expose students and researchers from diverse backgrounds to the basics and the forefront of current research in population genetics. In addition to evolutionary biology students, we welcome students of mathematics, medicine, physics and statistics who are interested in evolutionary theory.

There is no registration fee for participating in this program.

Dates: January 25-February 6, 2016

Venue: ICTS, Bangalore, India

Application deadline: October 15, 2015 (<https://www.icts.res.in/program/upcoming/details/362/>)

School lecturers:

Nick H. Barton, IST, Austria Philip J. Gerrish, University of New Mexico, USA Isabel Gordo, Instituto Gulbenkian de Ciencia, Portugal Wolfgang Stephan, LMU Munich, Germany John Wakeley, Harvard University, USA Bruce Walsh, University of Arizona, USA

Research seminar speakers:

Deepa Agashe, National Centre for Biological Sciences, India Sumana Annagiri, IISER Kolkata, India Aparup Das, National Institute of Malaria Research, India Suthirth Dey, IISER Pune, India Kavita Jain, J. Nehru Centre for Advanced Scientific Research, India Soumen Roy, Bose Institute, India Areejit Samal, The Institute of Mathematical Sciences, India Rahul Siddharthan, The Institute of Mathematical Sciences, India Himanshu Sinha, Tata Institute of Fundamental Research, India Nisheeth Vishnoi, Ecole Polytechnique Federale du Lausanne, Switzerland

Organisers: Deepa Agashe (NCBS, Bangalore), Kavita Jain (JNCASR, Bangalore)

Please contact us at: popgen2016@icts.res.in

“popgen2016@icts.res.in” <popgen2016@icts.res.in>

Barcelona PhylogeneticAnalysis Jan25-29

In case someone is interested, there are 3 places available for the course “PHYLOGENETICS ANALYSIS USING R - 3rd Edition”.

INSTRUCTORS: Dr. Emmanuel Paradis (Institut de Recherche pour le Développement, France) and Dr. Klaus Schliep (University of Massachusetts, USA). More information: <http://www.transmittingscience.org/courses/phylo/phylogeny-with-r/> or writing to courses@transmittingscience.org.

This course is for biologists dealing with the analysis of multiple molecular sequences at several levels: Populations, species, clades, communities. These biologists address questions relative to the evolutionary relationships among these sequences, as well as the evolutionary forces structuring biodiversity at different scales. The objectives are: (i) to learn the theoretical bases phylogenetic analysis, (ii) to know how to choose a strategy of molecular data analysis at the inter- or intraspecific levels, (iii) to be able to initiate a phylogenetic analysis starting from the files of molecular sequences until the interpretation of the results and the graphics. The software used for this course will be centered on the R language for statistics. This will include the use of specialized packages particularly ape, phangorn, and adegenet.

Prior knowledge of R is required for taking the course.

PLACE: Facilities of the Centre of Restauració i Interpretació Paleontològica, Els Hostalets de Pierola, Barcelona (Spain).

Organized by: Transmitting Science, the Institut Català de Paleontologia M. Crusafont and the Centre de Restauració i Interpretació Paleontològica de Els Hostalets de Pierola.

Places are limited and will be covered by strict registration order. Please feel free to distribute this information between your colleagues if you consider it appropriate. With best regards

Soledad De Esteban-Trivigno, PhD Course Coordinator courses@transmittingscience.org Transmitting Science www.transmittingscience.org soledad.esteban@transmittingscience.org

BioBash workshops

Genialis is a bioinformatics company that shares the in-house knowledge also by organising bioinformatics hands-on workshops called BioBash. They are ideal for life scientists who are starting to implement bioinformatics into their research. Different workshops are already available; learn about the Linux environment, programming in Python & R, or get a solid but gentle introduction into NGS data analyses.

Here is a list of the currently available workshops: BioBash Essentials +, 21. - 25. September 2015, UCL, London, UK BioBash Essentials, 7. - 9. October 2015, Frankfurt, Germany BioBash Python, 12. - 14. October 2015, München, Germany BioBash Python, 16. - 18. November 2015, London, UK

We recommend that you chose a workshop close to your city, thus saving time and travel cost. Read more about the BioBash Workshops online at www.biobash.com, where you can compare detailed agendas of the workshops to find the right one for you.

Essentials+ is a 5-day bioinformatics workshop aimed at life scientists with little or no knowledge of basic bioinformatic skills. Common and general tools such as Linux command line and regular expressions are explained through practice, and more work is put into building solid programming foundations in Python. The participants learn how to tackle many everyday tasks that come up regardless of their actual scientific question, and how to automate repetitive activities such as querying online databases or extracting information from endless text files. Moreover, a full day introduction into the NGS data analysis will be given, covering in practice the logic behind the filtering, assembly and mapping of short reads.

Essentials is a 3-day workshop designed for life scientists who are starting to dive into data analysis. It will get you the general tools that you will repeatedly require regardless of your actual scientific question. Learn about the Linux command line, tools used for NGS data analysis and get a one day primer into programming with Python. Visit our website to learn more.

Python is also a 3-day workshop that will provide solid foundations in the Python programming language. It is aimed at life scientists with little or no programming experience and will start from the very basics. Gradually,

many important building blocks will be introduced to enable you to efficiently design or adapt Python scripts according to your needs. Your toolbox will be additionally expanded with BioPython, a module of diverse bioinformatics functions to query online databases, access NCBI BLAST and more. Learn how to automate your repetitive tasks and boost your scientific productivity. Visit our website to learn more.

klemen@genialis.com klemen@genialis.com

BocasResStation MarineTaxonomy 2016

STRI's Bocas del Toro Research Station offers short-courses in marine taxonomy. 2016 will include Taxonomy and Ecology of Caribbean Sponges and Taxonomy and Ecology of Sea Anemones For information about applying please go to: http://www.stri.si.edu/sites/-taxonomy_training/future_courses/index.html Nerea Nieto Smithsonian Tropical Research Institute Director's assistant Bocas del Toro Research Station Phone (507) 212-8748 Cellphone (507) 67808067 Panama

Bocas Research Station
<bocasresearchstation@gmail.com>

Crete ComputationalMolEvol May8-19

Dear Community,

The 8th summer school on computational molecular evolution that I am organizing with Ziheng Yang, Nick Goldman, Aidan Budd, and Laura Emery will take place from May 8 - 19 2016 in Crete, Greece again.

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

<http://events.embo.org/16-computational-evolution/Alexis>

– Alexandros (Alexis) Stamatakis

Research Group Leader, Heidelberg Institute for Theoretical Studies Full Professor, Dept. of Informatics, Karlsruhe Institute of Technology Adjunct Professor,

Dept. of Ecology and Evolutionary Biology, University of Arizona at Tucson

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

CzechRepublic PopGenomics Jan24-Feb5

We are pleased to announce the first Workshop on Population and Speciation Genomics, a new concept within the workshop series that also includes the popular Workshop on Molecular Evolution and Workshop on Genomics, being held in the UNESCO World Heritage town Ěeský Krumlov, Czech Republic. This workshop will be taking place between 24 January and 5 February, 2016. More information is below or can be found on our website at <http://evomics.org>. An on-line application form can be found at: <http://evomics.org/registration-form/2016-workshop-on-population-and-speciation-genomics/> Dates: 24 January-5 February, 2016

Application Deadline: 15 October, 2015 is the preferred application deadline, after which time people will be admitted to the course following application review by the admissions committee. However, later applications will certainly be considered for admittance or for placement on a waiting list.

Registration Fee: \$1,500 USD. Fee includes opening reception and access to all course material, but does not include other meals or housing. Special discounted pricing has been arranged for hotels, pensions and hostels. Information regarding housing and travel will be made to applicants following acceptance.

APPLY HERE: <http://evomics.org/registration-form/2016-workshop-on-population-and-speciation-genomics/> Useful Links: Direct Link to the Full Workshop Schedule: <http://evomics.org/workshops/-2016-workshop-on-population-and-speciation-genomics-cesky-krumlov/> General Workshop information: <http://evomics.org> Frequently Asked Questions (FAQ) about the Workshop and Ěeský Krumlov can be found here: <http://evomics.org/workshops/faq/> Workshop Overview: The Workshop on Population and Speciation Genomics consists of a series of lectures, demonstrations and computer laboratories that cover various aspects of genomic analyses with a focus on the use of next generation sequencing data at the level of populations and closely related species. Faculty are chosen exclusively for their effectiveness in

teaching theory and practice. The course is designed for established investigators, postdoctoral scholars, and advanced graduate students. Scientists with strong interests in the uses of genome-scale sequencing data and the application of modern analysis tools to study population dynamics and interactions are encouraged to apply. Lectures and computer laboratories total ~90 hours of scheduled instruction. No prior programming experience is required.

This independent workshop is also very suitable to be used as a complement to the Workshop on Genomics, which will take place just before the Workshop on Population and Speciation Genomics, at the same location.

Topics to be covered include: - Introductions to UNIX, R, and Python - Analyzing genomic data in the "cloud" using Amazon Web Services (AWS) - Genomics data handling and file formats - RAD (Restriction site Associated DNA) data analysis - Analysis of low-coverage resequencing data - Variant detection - Likelihood and Bayesian inference - Coalescent analyses of population structure and demography - Analysis of adaptation and natural selection - Selective sweep analyses - Detection of introgression and admixture

Co-directors: Walter Salzburger, Michael Matschiner, Jan Stefka, and Scott Handley

For more information and online application see the Workshop web site - <http://evomics.org> The materials in this email are private and may contain Protected Health Information. If you are not the intended recipient, be advised that any unauthorized use, disclosure, copying, distribution or the taking of any action in reliance on the contents of this information is strictly prohibited. If you have received this email in error, please immediately notify the sender via telephone or return email.

shandley@pathology.wustl.edu

Glasgow RForBiologists Dec7-10

'INTRODUCTION TO STATISTICS AND R FOR BIOLOGISTS' - New PR statistics course

This course will provide an introduction to both STATISTICS and CODING IN R. It is designed for participants who have little or no experience in either of these fields. It is ideal for people who are moving towards using R form other statistics packages or for those in early stages of their higher education (MSc and PhD) in an area

that will rely to some degree on statistical analysis

The 4 day course will run from the 7th - 10th December 2015 and will be held at SCENE (Scottish Centre for Ecology and the Natural Environment), Glasgow, United Kingdom.

Course content is as follows

Day 1:

Module 1: coding in the R language

Module 2: graphics using R

Day 2:

Module 3: probability theory and distributions

Module 4: null hypothesis testing and parameter estimation

Day 3:

Module 5: univariate regression

Module 6: multiple regression

Day 4:

Module 7: categorical variables

Module 8: case study: linear models in population assessments

Cost is pounds 380 for the 4 days including lunches and refreshments or pounds 550 for an all-inclusive option which includes the addition of accommodation, all meals and refreshments.

For further details or questions please visit www.prstatistics.co.uk or email oliverhooker@prstatistics.co.uk

Please feel free to distribute this information among friends and colleagues where suitable

Upcoming include courses; Upcoming courses; BIOINFORMATICS FOR GENETICISTS AND BIOLOGISTS; APPLIED BAYESIAN MODELLING FOR ECOLOGISTS AND EPIDEMIOLOGISTS; SPATIAL ANALYSIS OF ECOLOGICAL DATA USING R; ADVANCING IN STATISTICAL MODELLING USING R; STABLE ISOTOPE MIXING MODELS USING SIAR, SIBER AND MIXSIAR; MODEL BASED MULTIVARIATE ANALYSIS OF ECOLOGICAL DATA USING R; ADVANCES IN DNA TAXONOMY USING R; GENETIC DATA ANALYSIS USING R; all of which can be found at www.prstatistics.co.uk “oliverhooker@prstatistics.co.uk” <oliverhooker@prstatistics.co.uk>

Iquitos Peru Phylogenomics Jan10-17

Dear EvoDir community,

We are pleased to announce that applications are being accepted for the EMBO Practical Course on Phylogenomics in the Jungle city of Iquitos, in north eastern Peru.

The course will run from the 10-17th January 2016 and provides the theoretical underpinnings of the most up to date methods and approaches in phylogenomics, but the main focus is learning by doing.

The course is funded by EMBO with additional support from the Peruvian governmental body CONCYTEC. All participants accommodation and food for the duration of the course is fully covered.

Application deadline : 30th September.

For more information on the content, lecturers, how to apply and more please see our course website: <http://-phylocourse.org> We look forward to hearing from you !
- The organising committee.

Dr Mary J. O’Connell, 250 Great Minds University Academic Fellow, Bioinformatics and Molecular Evolution Group Leader. www.mol-evol.org Office 9.05 Miall Building, School of Biology, Faculty of Biological Sciences, University of Leeds, Leeds LS2 9JT, UK email: m.oconnell@leeds.ac.uk

—
“Dr Mary J. O’Connell” <m.oconnell@leeds.ac.uk>

Iquitos Peru Phylogenomics Jan10-17 Deadline

Dear EvoDir community,

The deadline for applications is coming soon (30th september) for the EMBO funded Practical Course on Phylogenomics in the Jungle city of Iquitos, in north eastern Peru.

The course will run from the 10-17th January 2016 and provides the theoretical underpinnings of the most up

to date methods and approaches in phylogenomics, but the main focus is learning by doing.

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- The organising committee.

Dr Mary J. O'Connell, 250 Great Minds University Academic Fellow, Fulbright Scholar, Bioinformatics and Molecular Evolution Group Leader. www.mol-evol.org
Office 9.05 Miall Building, School of Biology, Faculty of Biological Sciences, University of Leeds, Leeds LS2 9JT, UK email: m.oconnell@leeds.ac.uk

m.oconnell@leeds.ac.uk

Montreal ABCinEvolution Dec11 CallPapers

CALL FOR PAPERS NIPS 2015 Workshop: ABC in Montreal December 11th, 2015 Montreal, Canada <https://sites.google.com/site/abcinmontreal> Important Dates: Submission Deadline: October 16, 2015 Acceptance Notification: October 30, 2015

Approximate Bayesian computation (ABC) or likelihood-free (LF) methods have developed mostly beyond the radar of the machine learning community, but are important tools for a large and diverse segment of the scientific community. This is particularly true for systems and population biology, computational neuroscience, computer vision, healthcare sciences, but also many others.

Interaction between the ABC and machine learning community has recently started and contributed to important advances. In general, however, there is still significant room for more intense interaction and collaboration. Our workshop aims at being a place for this to happen.

The workshop will consist of invited and contributed talks, poster spotlights, and a poster session. Rather than a panel discussion we will encourage open discussion between the speakers and the audience.

Invited Speakers:

Mark Beaumont University of Bristol Oksana Chkrebti, Ohio State University Rob Deardon, University of Calgary Iain Murray, University of Edinburgh David Nott, National University of Singapore Brandon Turner, Ohio State University

Submissions:

We invite submissions in NIPS 2015 format with a maximum of 4 pages, excluding references. Anonymity is not required. Relevant works that have been recently published or presented elsewhere are allowed, provided that previous publications are explicitly acknowledged. Authors of accepted papers will be invited to present either a poster or a short talk. Please submit papers in PDF format abcinmontreal@gmail.com

Workshop Organizers:

Ted Meeds, University of Amsterdam and Vrije University Amsterdam Michael Gutmann, University of Helsinki and Aalto University Dennis Prangle, Newcastle University Richard Everitt, Reading University Jean-Michel Marin, University of Montpellier

Acknowledgements:

ABC in Montreal has been endorsed by ISBA and received support from The Finnish Centre of Excellence in Computational Inference Research (COIN).

Richard Everitt <richard.g.everitt@gmail.com>

Paris ExperimentalEvolution Nov9-13 2

Second announcement

The International Graduate Program in Life Sciences and the Interdisciplinary Master in Life Sciences (IMaLis) are now accepting applications for the course "Experimental evolution: theory and current practices", to be held at the Institute of Biology of the École Normale Supérieure (IBENS), in Paris, November 9-13, 2015.

The course will introduce Master and PhD students in Evolutionary Biology to the experimental approaches employed to test evolutionary theory. It will bring together world-renowned researchers to lecture on topics including the historical development of experimental evolution approaches, experimental design, the evolution of sexuality, origin of multicellularity and sociality, and the genetic basis of adaptation to novel environ-

ments. Lectures will be complemented with computer tutorials on the analysis of population genomics data.

The course will be restricted to a maximum of 10 students. Meal and accommodation costs will be fully covered and there is no registration fee. Upon successful completion of the course, European students will be awarded 6 ECTS credits.

Faculty: Charlie Baer (University of Florida); Ivo Chelo (Instituto Gulbenkian de Ciência); Antony Dean (University of Minnesota); Marie-Anne Félix (IBENS); Regis Ferrière (IBENS and University of Arizona); Duncan Greig (Max Planck Institute for Evolutionary Biology), Thiago Guzella (IBENS); Philippe Nghe (ESPCI); Paul Rainey (ESPCI and New Zealand Institute for Advanced Study); Christian Schlötterer (Institut für Populationsgenetik); Olivier Tenaillon (Université Paris 7); Henrique Teotónio (IBENS); Arjan de Visser (Wageningen UR).

Sponsoring and partner graduate programs: IBENS, Pepinière interdisciplinaire CNRS-PSL Eco-Evo-Devo, Partner University Fund - French American Cultural Exchange, Vienna Graduate School of Population Genetics.

We will receive applications until October 5, 2015. Applicants should send a letter of motivation and a CV to: teotonio@biologie.ens.fr.

We also welcome participants at any stage of their careers to attend the lectures. Meals and accommodation costs will not be covered in this case. Registration is required by sending an email to: teotonio@biologie.ens.fr. We will accept applications on a first come first serve basis, to a maximum of 30.

Note that the week before there will be a graduate course entitled “Experimental Ecology” (see <http://www.enseignement.biologie.ens.fr/spip.php?article162>), that may be of your interest, taking place at IBENS just the week before.

Further information and updates can be found at <http://www.gradprog.biologie.ens.fr/> teotonio@biologie.ens.fr

Portugal GenomicArchitecture Sep28-Oct1

Announcement/Reminder

We are happy to announce that applications for the Bioinformatics training Course GACT15 Genomic Ar-

chitecture of Complex Traits are now *OPEN*

<http://gtpb.igc.gulbenkian.pt/bicourses/GACT15> with Arcadi Navarro, Juan A. Rodriguez and David Allen Hughes

IMPORTANT DATES for this Course Deadline for applications: Sept 19th 2015 Latest notification of acceptance: Sept 20th 2015 Course date: Sept 28th - Oct 1st 2015

Candidates with adequate profile will be accepted in the next 72 hours after the application until we reach 20 participants.

Overview Genome-Phenome analysis is both a challenging biological problem and a key component of precision medicine. This course aims to introduce current methods and concepts used to link genomes and phenomes. Emphasis will be placed on mapping disease susceptibility genes. Course topics will be presented as lectures each followed by illustrative practical sessions. Topics will cover technological and design issues as well as current data analysis and interpretation strategies.

A variety of approaches to Genome-Phenome analysis will be covered ranging from array and targeted re-sequencing of (Epi-)Genome-Wide Association Studies to full genome re-sequencing. The main focus of this course will be on complex traits, however, the genetic architectures of cancer and rare diseases will also be considered.

Methods: The course is comprised of practical exercises preceded by short lectures. There will be opportunities to hold group discussions on specific case studies.

Target Audiences: (1) Individuals with knowledge about bioinformatics and/or genomics, that aim at using modern methods to address population variation or genotype phenotype association studies. (2) Individuals interested in some particular phenotype(s) (MDs, veterinarians, biologists) and wishing to commence investigation of the genetics of their trait(s) of interest. (3) All individuals, graduate or professional, wishing to expand on their working knowledge of the genetics of complex traits.

Pre-requisites: In addition to a reasonable level of computer literacy, a minimal familiarity with the basics of bioinformatics, statistics, genomics and biology will be assumed.

An acquaintance with studies of population variation or genotype phenotype association would be an advantage but not essential.

Course duration / fee: 4 days / Euro 360.00

Thank you for your interest in GTPB courses.

Pedro Fernandes – Pedro Fernandes GTPB Coor-

dinator Instituto Gulbenkian de Ciência Apartado
14 2781-901 OEIRAS PORTUGAL Tel +351 21
4407912 <http://gtpb.igc.gulbenkian.pt> Pedro Fernandes
<pfern@igc.gulbenkian.pt>

Portugal R Nov23-27

cE3c Centre for Ecology, Evolution and Environmental Changes is organizing the Advanced Course R without fear: an R course in evolutionary ecology by Jordi Moya-Laraño - November 23-27 2015 @ Lisbon, Portugal
R without fear: an R course in evolutionary ecology

Objectives: This is a five days intensive course aiming to give basic skills in R, with some applications in the field of Evolutionary Ecology

See the PROGRAMME at: <http://ce3c.ciencias.ulisboa.pt/training/ver.php?id=5>
Course INSTRUCTOR: Jordi Moya-Laraño (<http://www.eeza.csic.es/foodweb/>)

(Tenure Scientist, Functional and Evolutionary Ecology, Estación Experimental de Zonas Áridas CSIC)

Intended audience

This course will be open to a maximum number of 20 participants with a bachelor in Biology or related area.

The course is free for 1st year PhD students in the Doctoral programme in Biology (FCUL), Biodiversity, Genetics and Evolution (BIODIV UL, UP) and Biology and Ecology of Global Changes (BEAG UL, UA). For information of fees for other participants see the programme details.

Deadline for applications: October 23, 2015

For additional details about the course and to know how to register, click here:

<http://ce3c.ciencias.ulisboa.pt/training/ver.php?id=5>
For more information about the course, please contact:

jordi@eeza.csic.es

Margarida Matos <mmmatos@fc.ul.pt>

Roscoff France Evolutionary Networks Jul3-9

Free summer school (July 3rd-9th 2016): Introduction to the concepts and methods of networks in evolutionary studies (sequence similarity networks, genome networks and bipartite graphs)

The summer school is now extended to researchers.

It will be held in Roscoff, France, between July 3rd 2016 (date of arrival) and July 9th (date of departure) (<http://www.sb-roscoff.fr/index.php>).

This school is designed in priority for biologists and bioinformaticians (completing a PhD degree, or currently post-doctoral fellows, or researchers), who wish to learn the bases of network analyses.

The main notions (regarding various types of networks, the relevance of their analyses, and some bases in graph theory) will be introduced by short theoretical classes, followed by practical case-studies, introducing the basics in programming required to run such network analyses as well as to use the existing software/tools. Our goal is that, by the end of this summer school, all applicants will be qualified to perform network analyses of their own datasets.

More precisely, we will focus on the following concepts and methods:

- Introgressive evolution and large-scale diversity studies.
- Construction and analysis of sequence similarity networks (construction and sorting of connected components, definition of gene families, search for composite genes, implementation of centrality measures)
- Construction and analysis of genome networks (construction of weighted genome networks, implementation of their diameter, shortest paths, analyses of labeled nodes, etc.)
- Construction and analysis of gene-genome bipartite graphs (detection of connected components, and their articulation points, and twins)

In addition, conferences on networks and evolution will be delivered by leading scientists during this school. Expected speakers feature: Fernando Baquero, Robert Beiko, Marco Fondi, Michel Habib, Philippe Huneman, François-Joseph Lapointe, Mattis List, Philippe Lopez, and Marc-André Sélosse.

This summer school is funded by ERC grant (FP7/2007-2013 Grant Agreement # 615274). Hence, registration is free, housing and food (breakfast, lunch and dinner) are also fully covered. Applicants will only need to fund their travel to Roscoff.

10 places only are available, with a mandatory requirement: applicants must show basic computer skills (i.e. to be familiar with Linux environment and with at least one programming language, preferably R or Python).

Applications are to be submitted asap, and no later than January 15th 2016, by email to :

eric.bapteste@upmc.fr , and contain a brief letter describing why this class will be of significant interest for the applicant and his/her future studies.

Applicants will be selected based on their motivation, and their resume, including the names of two scientific referees.

We are excited to meet you soon in Roscoff.

Eric Bapteste + Philippe Lopez

Eric Bapteste <epbapteste@gmail.com>

number of invited presentations will be selected from the submitted abstracts. Please send your abstract of no more than 250 words by e-mail to Om Rajora (Om.Rajora@unb.ca) as an attached Word file no later than October 16, 2015. You will be notified by October 23th whether your abstract has been selected for an oral presentation. Thereafter, the selected presenters will need to submit their abstract to the PAG website. Authors whose abstracts are not selected for oral presentations are highly encouraged to present a poster at the conference.

Inquiries and Abstract Submission

For information and questions regarding the Population and Conservation Genomics workshop, please contact Om Rajora at the following coordinates.

Dr. Om P. Rajora, Faculty of Forestry and Environmental Management, University of New Brunswick, Fredericton, NB E3B 5A3, Canada.

E-mail: Om.Rajora@unb.ca Tel: (506) 458-7477 Fax: (506) 453-3538

om.rajora@unb.ca

SanDiego ConservationGenomics Jan9-13

Population and Conservation Genomics Workshop Plant and Animal Genome XXIV International Conference <http://www.intlpag.org/> January 9-13, 2016 Town and Country Convention Centre, San Diego, California

The annual Population and Conservation Genomics workshop will be held at the Plant and Animal Genome XXIV International conference. The workshop is scheduled on Saturday, January 9, 2016. You are invited to attend this Workshop and submit abstracts for oral presentations on any population and conservation genomics aspect of both plants and animals. The topics may include: population genomic diversity and structure; molecular evolution; adaptive molecular genetic variation; natural selection and local adaptation; candidate-gene and genome-wide population studies; application of genomics in conservation and management of genetic resources; genomic effects of domestication, management practices, fragmentation, bottlenecks, climate and environment change, and transgenic deployment; and gene conservation; etc.

The workshop has a slot for six invited speakers. A

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The workshop has a slot for six invited speakers. A number of invited presentations will be selected from the submitted abstracts. Please send your abstract of no more than 250 words by e-mail to Om Rajora (Om.Rajora@unb.ca) as an attached Word file no later than October 19, 2015. You will be notified by October 26th whether your abstract has been selected for an oral presentation. Thereafter, the selected presenters will need to submit their abstract to the PAG website. Authors whose abstracts are not selected for oral presentations are highly encouraged to present a poster at the conference.

Inquiries and Abstract Submission

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Om Rajora <om.rajora@unb.ca>

UGroningen EvolutionaryDynamics Nov15-20

Winter school Linking Community and Ecosystem Dynamics: first announcement

The Research School Ecology & Evolution of the Groningen Institute for Evolutionary Life Sciences (GELIFES, University of Groningen) is organizing a Winterschool for PhD students and Postdocs on Linking Community and Ecosystem Dynamics. The school will be held in the University field station 'Herdershut' on the Dutch island of Schiermonnikoog from November 15 - 20 2015.

Scope of the course

The research fields community and ecosystem ecology have diverged more or less independently over the last decennia. Progress is made in understanding shifts in community composition under the influence of environmental change and how these shifts can be explained by functional trait approaches of component species. Studies in ecosystem ecology traditionally have a strong focus on energy and nutrient fluxes and how deviation

in these fluxes affect ecosystem functioning and stability. Recent studies reveal tight links between these sub-disciplines that enforce us to rethink how communities and ecosystems interact.

This course focuses on theoretical concepts such as autocatalytic loops and feedbacks between organisms, thermodynamics in species interactions and the importance of ecosystem engineers. We will explore how these principles can be used to link communities to ecosystems in order to understand how environmental change affects community and ecosystem dynamics.

Course lecturers include Prof. Neil Rooney (U. of Guelph), Prof. Han Olff (U. of Groningen), Prof. Matty Berg (Free University Amsterdam), Prof. Tjeerd Bouma (Netherlands Institute for Sea Research).

Further information on the programme can be found on the course webpage of the Research School Ecology & Evolution: <http://www.rug.nl/research/ecology-and-evolution/phdcourses/communityecosystemdynamics2015>

Pre-registration for the course is now open.

"c.m.eising@rug.nl" <c.m.eising@rug.nl>

Wageningen AnimalGenomics Oct19-23

There are still some places free on this course.

In October (19-23), the Animal Breeding and Genomics Centre of Wageningen UR, ABGC, is organizing a PhD-course on genotype by environment interaction, uniformity and stability. We will focus on quantitative genetics and statistical modeling from a broad perspective: animal breeding, plant breeding and natural populations.

This course will be given on the Wageningen Campus. Maximum number of participants is 40; the minimum is 15. The registration deadline is September 30th. Note that registration is not final until you have received confirmation from the course organizers that you can participate.

Course Details:

Genotype by environment interaction, uniformity and stability

Dates : 19 to 23 October 2015

Teachers : Han Mulder, Piter Bijma, Marcos Malossetti and Phillip Gienapp

Credits : 1.5 ECTS

Minimum participants: 15 Maximum participants: 40

Final Registration date: September 30, 2015

Provisional day-to-day program:

Monday: Genotype by environment interaction: concepts and implications

Tuesday: Statistical modeling of genotype by environment interaction in animal and plant breeding

Wednesday: Quantitative genetics of variability

Thursday: Statistical modeling of variability and stability

Friday: Costs and benefits of stability, plasticity and uniformity (until 12.00h)

For more course details and to register see the website:

<http://www.wageningenur.nl/nl/activiteit/Indepth-Course-Genotype-by-environment-interaction-uniformity-and-stability.htm> or contact Han Mulder (han.mulder@wur.nl) or Phillip Gienapp (p.gienapp@nioo.knaw.nl)

“p.gienapp@nioo.knaw.nl” <p.gienapp@nioo.knaw.nl>

WageningenU
StructuralEquationModelling
Dec14-18

We are pleased to announce a postgraduate course on Structural Equation Modelling, organised by the Graduate School for Production Ecology and Resource Conservation (PE&RC) of Wageningen University, Netherlands. The course will take place from Monday 14 to Friday 18 December 2015 at Wageningen University Campus. This course will be lectured by Professor Bill Shipley, who is one of the leading international experts in the field of Path Analysis and Structural Equation Modelling. Registration is now open at www.pe-rc.nl/sem! Scope: While much of statistics focusses on associations between variables and making predictions, the aim of structural equation modelling is to establish causal relationships between variables. In spite of the common belief that any causal statement requires randomized experiments, there is an increasing body of theory, methodology and software which enables scientists to draw certain types of causal conclusions from observational data. This has important advantages, especially in cases where ran-

domized experiments are not feasible. Notably, causal models allow the quantification of intervention effects, which is the response of the system given a certain value of one your variables (e.g. gene knock-out, rainfall). This new course will explain the key concepts underlying causal inference, the required assumptions, and how the interpretation of results differs from the case of randomized experiments. To ensure that you learn from the best, we managed to get Prof. Bill Shipley from the Universit   de Sherbrooke in Canada to come over to Wageningen to actually give this course. Prof. Shipley is the author of “Cause and correlation in biology: A user’s guide to path analysis, structural equations, and causal inference”, which by many is seen as the guide for working with Path Analysis and Structural Equation Models. The focus will be on classical structural equation models with a small number of (latent) variables, but we will also give an introduction to recent developments on methodology for high-dimensional data. Throughout the course we will discuss applications in ecology, social sciences and genetics. Depending on the background and interests of the participants we may put a stronger emphasis on some of these applications. Participants are therefore encouraged to bring their own data.

Programme: Day 1: Introduction and background of structural equation models (SEM): causation versus correlation, causal inference versus classical statistics. Identifiability and estimation for models without latent variables.

Day 2: Testing and selecting your model: goodness of fit tests, model comparison, confirmatory and explanatory models.

Day 3: Adding latent (unmeasured) variables to your model; concept of latent variables, estimating SEMs with latent variables.

Day 4: The estimation of causal effects revisited: causal graphs, directed acyclic graphs and conditional independence, d-separation and faithfulness. The d-sep test.

Day 5: Applications of SEMs in ecology and genomics, e.g. causal inference for high-dimensional data with the R-packages pcalg and qtlnet.

General information: Target Group: The course is aimed at PhD candidates and other academics Group Size: Min. 15 / Max. 25 participants Course duration: 5 days Language of instruction: English Frequency of recurrence: Once every two years Number of credits: 1.5 ECTS Lecturers: Prof. Bill Shipley (Universit   de Sherbrooke, Canada) and Dr. Bob Douma (Centre for Crop Systems Analysis, Wageningen UR)

Prior knowledge: Although the emphasis will be on the

concepts rather than mathematical properties, some basic knowledge of probability and statistics will be required to understand those concepts. In particular, we will assume familiarity with random variables, joint distributions of random variables, conditional distributions and multiple regression. Basic knowledge of R is recommended (e.g. installing packages, reading data-files, linear regression).

Location: Wageningen University Campus, Wageningen, Netherlands.

Fees: PE&RC / SENSE / EPS / WIAS / RSEE PhD candidates with an approved TSP 350, All other PhD candidates, postdocs and other academic staff 700, Participants from the private sector 1.400,

The course fee includes a reader, coffee/tea, and lunches. It does not include accommodation, but several options

for inexpensive accommodation are available. The Early-Bird Fee applies to anyone who REGISTERS ON OR BEFORE 16 NOVEMBER 2015.

To register for this course, go to www.pe-rc.nl/sem.

For more information, please contact: Dr. Lennart Suselbeek PhD Programme Coordinator C.T. de Wit Graduate School for Production Ecology & Resource Conservation (PE&RC) Wageningen Campus, LUMEN, Building 100, Room A.217 Droevendaalsesteeg 3-A, 6708 PB WAGENINGEN, The Netherlands e: lennart.suselbeek@wur.nl

— / —

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

Instructions

Instructions: To be added to the EvolDir mailing list please send an email message to Golding@McMaster.CA. At this time provide a binary six letter code that determines which messages will be mailed to you. These are listed in the same order as presented here — Conferences; Graduate Student Positions; Jobs; Other; Post-doctoral positions; WorkshopsCourses. For example to receive the listings that concern conferences and post-doctoral positions this would be 100010. Messages are categorized on the basis of their subject headings. If this subject heading is not successfully parsed, the message will be sent to me at Golding@McMaster.CA. In addition, if it originates from ‘blackballed’ addresses it will be sent to me at Golding@McMaster.CA. These messages will only be read and dealt with when I have time. The code 000000 has all channels turned off and hence gets only a once monthly notification of the availability of a monthly review pdf file.

To be removed from the EvolDir mailing list please send an email message to Golding@McMaster.CA. Note that ‘on vacation’, etc, style messages are automatically filtered and should not be transmitted to the list (I hope), but should you wish to avoid the e-mail’s your code can be temporarily changed to 000000.

To send messages to the EvolDir direct them to the email evoldir@evol.biology.McMaster.CA. Do not include encoded attachments and do not send it as Word files, as HTML files, as L^AT_EX files, Excel files, etc. . . . plain old ASCII will work great and can be read by everyone. Add a subject header that contains the correct category “Conference:, Graduate position:, Job:, Other:, Postdoc:, Workshop:” and then the message stands a better chance of being correctly parsed. Note that the colon is mandatory.

The message will be stored until the middle of the night (local time). At a predetermined time, the collected messages will be captured and then processed by programs and filters. If the message is caught by one of the

filters (e.g. a subject header is not correctly formatted) the message will be 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 \LaTeX do not try to embed \LaTeX or \TeX in your message (or other formats) since my program will strip these from the message.