E v o l D i r

September 1, 2016

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

Foreword

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

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

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

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Conferences

Austin Texas SMBE Jul2-6 CallForSymposia

SMBE 2017 | Call for Symposia

We're delighted to announce that the Society for Molecular Biology & Evolution is now accepting proposals for symposium topics for the 2017 Annual Meeting, taking place in Austin, Texas, USA, from July 2nd - 6th, 2017. Selection of proposals will be aimed at spanning the range of interests of SMBE members, including exciting new scientific developments, and representing the geographic and gender diversity of members. For each accepted symposium we provide substantial financial support to facilitate symposia organizers in attracting outstanding invited speakers including free registration and partial travel costs for invited speakers (up to two per symposium). To submit your proposal please click on http://www.smbe2017.org/call-for-symposia and follow the instructions. Please complete and submit the form by Friday, 28th October, 2016. Successful applications will be confirmed by 4th November. Please email us at SMBE2017@mci-group.com for any questions.

Call for Symposia Details ...

... SMBE 2017 Website | Registration | Industry | Contact | Unsubscribe

SMBE 2017 <SMBE2017@mci-group.com>

Bangalore GeneticsOfAdaptation Nov28-Dec2

We are pleased to announce a symposium on the Genetics of Adaptation.

Our goal is to bring together a broad representation of evolutionary biologists, geneticists and developmental biologists who study the evolutionary drivers and genetic and developmental mechanisms of key adaptations in nature. Participants will be evolutionary biologists who study the genetics and developmental biology of adaptations, or geneticists and developmental biologists whose work informs ideas in population genetics and evolutionary theory/genomics. Together, we will aim to synthesize recent developments in evolutionary biology, population genetics, ecological genetics, evo-devo, and developmental tools and genomics technologies, which have fueled explosive growth in understanding molecular

genetic and developmental bases of adaptations even in non-model organisms.

We invite advanced PhD students, postdocs and young faculty to submit abstracts for oral and poster presentations. Abstract submission deadline: 15 September 2016

Symposium dates: 28 November to 2 December 2016 Venue: National Centre for Biological Sciences (NCBS), Bangalore, India.

Sponsored by: The Society for the Study of Evolution (SSE), Simons Centre for the Study of Living Machines, Department of Biotechnology (DBT, Govt. of India), and The Company of Biologists.

Further details at https://www.ncbs.res.in/events/-genetics-adaptation Sincerely, Deepa Agashe, Gaiti Hasan, and Krushnamegh Kunte. National Centre for Biological Sciences (NCBS) Tata Institute of Fundamental Research (TIFR) GKVK campus, Bellary Road, Bengaluru 560065, India. Email: goa@ncbs.res.in Ph: +91 80 2366-6001/02/85/24.

"Genetics of Adaptation Symposium 2016, NCBS" <goa@ncbs.res.in>

Cambridge InsectImmunityEvolution Dec16

"Insect Infection and Immunity in Insects: from Mechanisms to Evolution"

Emmanuel College, Cambridge, UK

Friday, 16th December, 2016.

This is a one-day meeting that aims to bring together people working on different facets of insect infection and immunity. As guest speaker we will have Dr. Sylvia Cremer who has pioneered the study of cooperative defences in eusocial insects.

Registration and more information at: http://-infectionandimmunity.strikingly.com/ The Royal Entomological Society sponsors this meeting.

Best regards,

The organizing committee:

Frank Jiggins

Sinead English

Alexandre Leitão

Mara Lawniczak

Alexandre Leitão <ac2016@cam.ac.uk>

Cambridge PlantEvolution Sep15-16

Registration for the second UK Plant Evolution meeting closes in 2 weeks time - on August 19th.

We have a great line-up of invited speakers including Doug Soltis, Sandy Knapp, Chiara Airoldi, Robert Scotland, Vincent Savolainen, Minsung Kim, Kirsten Bomblies, and Dmitry Filatov.

The Accommodation section of the website now includes a live link to book college accommodation, in addition to a list of suggested hotels.

Registration is only 40 (student) or 60 (standard), including lunches and all tea/coffee breaks, and the opportunity to tour the CU Botanic Garden and/or herbarium.

To register or submit an abstract see

http://www.plantsci.cam.ac.uk/research/-sambrockington/uk-plant-evolution-2016 or email bjg26@cam.ac.uk with any questions.

"bjg26@hermes.cam.ac.uk" <bjg26@hermes.cam.ac.uk>

DukeU MadagascarEvolution Sep21-23

September 21 - 23, 2016: This symposium will cover topics from the evolution of cognition, One Health, disease transmission, comparative genomics, biogeography, evolutionary conservation genetics, and more! Details and registration information can be found at: http://-lemur.duke.edu/50/ NOTE: Early registration closes on September 10th. On-site registration will be available, but at substantially higher rates. Program:

September 21: Welcome reception for speakers and attendees September 22:

Morning Session: Cognition & Behavior * Brian Hare: "Lemurs have gone from ignored to adored in

cognitive research thanks to the Duke Lemur Center"

* Elizabeth M. Brannon: "Counting on lemurs to un-

cover the

evolutionary origins of quantitative cognition"

* Evan MacLean: "Lemur Diversity as a Natural Experiment

in Cognitive Evolution" * Christine Drea: "Female Lemurs Rule! Gaining Proximate

and Ultimate Understanding of Social Dominance via Comparative Studies" * Peter Kappeler: "The evolution of lemur social

systems"

Afternoon Session: Evolution & One Health * Anne-Claire Fabre: "The evolution of prehensile behaviour

and forelimb morphology in prosimians" * David Weisrock: "What do we really know about mouse

lemur species diversity?" * Marina B. Blanco: "Dwarf lemur biodiversity through the

lens of hibernation" * Sheena Faherty: "Gene expression and physiological

extremes in primate hibernation" * Erin McKenney: "Gut Instincts: Lemur microbial community

dynamics in health and disease" * Fidy Rasambainarivo: "One island, one health: transmission

of pathogens between species at the human-wildlife interface" * Meredith Barrett: "Impacts of environmental change on

lemur health" * Peter Larsen: "Pathogen discovery in Madagascar: the

utility of next-generation disease surveillance for lemur conservation" September 23: Morning Session: Cognition & Biomedicine * Michael Platt: "The Evolution of Visual Decision Making in

Primates" * Alexandra Rosati: "The ecology and evolution of primate spatial memory" * Jeffrey Rogers: "Decoding mouse lemurs: DNA sequencing,

comparative genomics and the remarkable biology of an emerging research model" * Fabien Pifferi: "The mouse lemur as a model for

research on aging" * Steven N. Austad: "Small bodied primates: a critical

need for aging research"

Afternoon Session: Conservation & Biogeography * Alex Dehgan: "Conservation 3.0 - The Future of

Conservation and Madagascar" * Charlie Nunn: "Cookstoves, Respiratory Health, and

Conservation of Lemur Biodiversity in SAVA, Madagascar" * Kathleen Muldoon: "Biogeographic Evolution of

Madagascar's Primate Communities: Endemism, Elevation, and the Fossil Record" * Jason L. Brown: "Predicting the genetic consequences of

future climate change: the power of coupling spatial demography, the coalescent, and historical landscape changes" * Joerg U. Ganzhorn: "Tipping points in lemur ecology and

conservation" * Jonah Ratsimbazafy: "Lemur conservation in Madagascar:

Good news in bad times" * Patricia Wright: "Lemur Conservation in Madagascar-the

next ten years"

Friday Evening Events: Washington Duke Inn 6:00 - 7:00 p.m.: Cocktail reception 7:00 - 8:30 p.m.: Plated dinner with Plenary Speaker, Dame Alison Richard 8:30 - 9:30 p.m.: Music and dancing with Malagasy world beat musician, Razia Said For questions and further information, please email: anne.yoder@duke.edu Anne D. Yoder, Professor Department of Biology Duke University, Box 90338 BioSci 315 Science Drive Durham, NC 27708 anne.yoder@duke.edu http://yoderlab.org Director, Duke Lemur Center http://lemur.duke.edu/50/ Anne Yoder <adyoder@duke.edu>

KansasCity EcologicalGenomics Oct28-30

14th Annual Ecological Genomics Symposium October 28-30, 2016 Kansas City Country Club Plaza Symposium website: http://ecogen.k-state.edu/symposia/-2016/2016.html This year marks the 14th anniversary of the Ecological Genomics Symposium. We have put together an outstanding lineup of ten speakers. Symposium details can be found at http://ecogen.k-state.edu/-symposia/2016/2016.html. The meeting will convene at 7:00 p.m. on Friday, October 28, and conclude at Noon on Sunday, October 30.

REGISTRATION: Please register online today at: http://ecogen.k-state.edu/symposia/2016/-2016registration.html. You may also register to attend the optional Saturday night banquet for an additional fee of $50.

POSTER ABSTRACTS: Poster topics should be related to the field of Ecological Genomics. A LIMITED

NUMBER OF SUBMITTED POSTER ABSTRACTS WILL BE SELECTED FOR ORAL PRESENTATIONS. Instructions for submitting your abstract online are at: http://ecogen.k-state.edu/symposia/2016/-2016abstract.html .DEADLINE to be considered for oral presentation: September 16, 2016.

VENUE: The symposium will take place at the Kansas City Marriott on the beautiful Country Club Plaza in Kansas City, Missouri. Reserve your hotel room online by visiting the Symposium website. Deadline: October 7, 2016.

FEATURED SPEAKERS:

§Hans Hofmann, University of Texas at Austin

§Kirsten Hofmockel, Iowa State University

§Robin Hopkins, Harvard University

§Christian Landry, Département de biologie, Université Laval, Québec, Canada

§Blake Matthews, Eawag, Swiss Federal Institute of Aquatic Science and Technology

§Suzanne McGaugh, University of Minnesota

§Geoffrey P. Morris, Kansas State University

§Kenneth M. Olsen, Washington University in St. Louis

§Amy Toth, Iowa State University

§James R. Walters, University of Kansas DEADLINES: Friday, 9/16 Early Registration at discounted rates Friday, 9/16 Poster Abstracts for oral presentation consideration Friday, 10/7 Hotel Reservations Friday, 10/21 Poster Abstract for poster presentation

ADDITIONAL INFORMATION will be posted on our website, http://ecogen.k-state.edu/symposia/2016/-2016.html, as details are finalized.

FUNDING for this symposium is provided by Kansas State University and Genome.

Jennifer Rhodes <jenniferrhodes@ksu.edu>

Lammi Finland Evolution Oct12-14

Symposium: Finnish Molecular Ecology and Evolution

We are pleased to announce that the 2nd Finnish Molecular Ecology and Evolution Symposium will be held at the Lammi Biological Station in Finland between the 12th and 14th of October. Invited presentations and discussion will cover a broad array of topics in Molecular Ecology and Evolution. A preliminary scientific and social program for this Symposium is now posted.

The Symposium is a student friendly event. Registration fee include transport from Helsinki to Lammi Biological Station and return, accommodation at the station and all meals.

Invited speaker, Dr. Luisa Orsini (Birmingham University), UK Dr. Orsini is studying Biosystems and Environmenal Changes, with her main objective being to identify evolutionary causes and effects of population responses to climatic and other anthropogenic changes and predict their adaptive potential and survival to future changes.

The online abstracts submission for the symposium is now open until the 10th of September 2016.

For more information about the meeting, please visit: https://molecular-ecology-kjvq.squarespace.com/?p For abstract submission, please visit: https://-elomake.helsinki.fi/lomakkeet/71923/lomake.html Looking forward to meeting you in Lammi, Finland.

On behalf of the organizing committee,

Dr. Anne Duplouy

"We cannot fathom the marvelous complexity of an organic being [...] Each living creature must be looked at as a microcosm-a little universe, formed of a host of self-propagating organisms, inconceivably minute and as numerous as the stars" _ Darwin 1868, p.453.

Dr. Anne Duplouy Postdoctoral Researcher The University of Helsinki Metapopulation Research Centre PL 65 Viikinkaari 1 00790 Helsinki Finland

E-mail: anne.duplouy@helsinki.fi web: www.anneduplouy.net

Anne Duplouy <anne.duplouy@helsinki.fi>

Madison CrowTribute Sep23

Legendary population geneticist Professor Jim Crow would have turned 100 years of age this year. To honor his life and legacy, a special event will be hosted by the Laboratory of Genetics at the University of Wisconsin-Madison on Friday, September 23, 2016.

In the afternoon, an outstanding set of speakers will

describe how Professor Crow's research transformed the fields of evolution and genetics. In the evening, we will swap stories over dinner, listen to a keynote address from Professor Dan Hartl (who obtained his Ph.D. with Crow), and share personal remembrances.

As students of evolution, you won't want to miss this celebration. Please visit http://www.supportuw.org/-calendar/crow100/ to register.

I hope you can join us. If you cannot, please consider sharing a written tribute to Professor Crow (it can be just a few sentences) for the event. You can send your tribute to payseur@wisc.edu. Thank you.

Bret Payseur

Professor of Genetics and Medical Genetics

University of Wisconsin - Madison

"bret.payseur@wisc.edu" <bret.payseur@wisc.edu>

Madison Florida SEPEEG Oct21-23

The43rd annual Southeastern Population Ecology and Evolutionary Genetics meeting (SEPEEG, pronounced "seepage") will be held on the weekend of October 21-23 at Camp Cherry Lake in Madison, Florida. SEPEEG provides a friendly, informal setting for students, post-docs, and faculty to meet, talk science and relax around the campfire. The meeting will be hosted by the University of Florida Department of Biology. Registration is now open and the cost is $125/person (link here: http://mcdaniellab.biology.ufl.edu/sepeeg-2016/). Some funds will be available for student travel, generously provided by the American Society of Naturalists. Please contact the organizers, Stuart McDaniel (stuartmcdaniel@ufl.edu) or Charlie Baer (cbaer@ufl.edu) for further information.

StuartMcDaniel AssistantProfessor Departmentof Biology POBox 118525 Universityof Florida GainesvilleFL 32611

ph:352 273 0123 fax:352 392 3704 http://-mcdaniellab.biology.ufl.edu/ Twitter:@mcdaniellab

stuartmcdaniel@ufl.edu

MaxPlanckInst Ploen ExptEvolution Sep19-21 Reminder

Dear Colleagues,

Please note that the registration for the Experimental Evolution and Community Dynamics (EECD2016) workshop is closing by the end of August. There is still some spots available if you wish to join.

Best wishes,

Teppo Hiltunen

Symposium webpage, containing instructions how to register:

https://eecd2016.wordpress.com Venue: Max Planck Institute for Evolutionary Biology, Plon, Germany

Time: Sep 19th - 21st 2016

Teppo HIltunen <teppo.hiltunen@helsinki.fi>

Munich OriginsOfLife Sep15-16

Conference: Molecular Origins of Life Location: Literaturhaus, Munich, Germany Date: Thursday 15 and Friday 16 September 2016 Cost: Free for attendees (EUR 200 for poster presentations)

The Nanosystems Initiative Munich (NIM) would like to invite all students and researchers to a short conference on the Molecular Origins of Life, to be held on Thu 15-Fri 16 September 2016, at the Literaturhaus in Central Munich.

The conference will consist of a series of talks by a diverse set of leading experts from across Europe and beyond:

+ Gonen Ashkenasy, Ben Gurion University, Beer Sheva, Israel + Roy Bar-Ziv, Weizmann Institute of Science, Rehovot, Israel + Christophe Danelon, TU Delft, The Netherlands + Christoph Flamm, University of Vienna, Austria + Thomas Henning, MPI for Astronomy, Heidelberg,Germany + Philipp Holliger, University of Cambridge, UK + Wilhelm T. S. Huck, Radboud University, Nijmegen, The Netherlands + Andres Jäschke, Univer-

sität Heidelberg, Germany + Ludovic Jullien, Ãcole normale supérieure, Paris, France + Moritz Kreysing, MPI-CBG, Dresden, Germany + Nick Lane, University College London, UK + Andrei Lupas, MPI for Developmental Biology, Tübingen, Germany + Christof Mast, LMU München, Germany + Hannes Mutschler, MPI of Biochemistry, Munich, Germany + Matthew Powner, University College London, UK + Clemens Richert, Unversität Stuttgart, Germany + Antonino Marco Saitta, Université Pierre et Marie Curie, Paris, France + Heinz Friedrich Schöler, Universität Heidelberg, Germany + Judit Sponer, Masaryk University, Brno, Czech Republic + John Sutherland, LMB, Cambridge, UK + Dora Tang, MPI-CBG, Dresden, Germany + Shoichi Toyabe, Tohoku University, Japan + Oliver Trapp, Universität Heidelberg, Germany + Rebecca Turk-MacLeod, University of Glasgow, UK + Günter von Kiedrowski, Ruhr-Universität Bochum, Germany

The conference is being organised by Profs. Dieter Braun and Erwin Frey at the Faculty of Physics of Ludwig-Maximilian University of Munich (LMU). We will have an introductory session for people who are new to the Origins-of-life field, so please do encourage your students to attend.

Attendees bringing a poster pay a fee of EUR 200, but otherwise there is no cost to attend and no need to register. You can find more details at: http://www.nano-initiative-munich.de/events/nim-conference-on-molecular-origins-of-life/ Please contact Prof. Dieter Braun (dieter.braun@lmu.de) or Dr. Victor Sojo (v.sojo@lmu.de) for more details.

We hope to see you there!

Dr. Victor Sojo European Molecular Biology Organisation (EMBO) Fellow Systems Biophysics (AG Braun) Ludwig-Maximilian University of Munich (LMU) Amalienstr. 54. München 80799, Germany Phone: +49 89 2180 1484 v.sojo@lmu.de

"v.sojo@lmu.de" <v.sojo@lmu.de>

OpenU EmergenceOfLife Nov3-4

Dear Colleague

This is just a gentle reminder requesting your attendance at our the 3rd NoR HGT & LUCA meeting entitled: 'The landscape of the emergence of life' being held on 3-4 November 2016, at the Open University, Milton Keynes, UK. The meeting has now begun to take shape, which you can check on our website: www.nor-hgt-luca.com. If you wish to give an oral presentation please let me have the abstract pertaining your talk. In the event you are unable to attend, please pass this information on to your colleague(s) who may wish to attend. I also attach a conference poster for your kind attention.

Finally, I thought you might like to know the tone of the conference this year. Some of the highlights so far are:(1) Prof Avshalom C Elitzur, Israel, who will be talking about non-living 'phenomena' in nature that sort of reflect life, (2) Dr Mukesh Bhatt, UK, discussing the very thought provoking, legal definition of life; both these invitees are intended to inspire scientists to think 'out-side the box' so to speak. A third speaker (Prof Helen Hansma, USA) will be talking about clays, RNAs and has an interesting and a different take on the origin of LUCA from the normal run of the mill stuff. Also coming are the eminent speakers: Profs Peter Gogarten (LUCA and HGT) and Andrew Pohorille (proteins)both of NASA and Dr Michael Galperin (comparative genomics and the LUCA), USA; Prof Giuseppe Battaglia (vesicles and biomembranes specialist) of UCL, UK and there is also a mathematical treatment to life, delivered by Dr Claudio Maccone of Italy.

I look forward to hear from you, whether the answer is yes or no.

Kind regards

Sohan

Dr Sohan Jheeta

Independent Educator and Research Scientist

www.sohanjheeta.com Chairman: NoR HGT & LUCA

Guest Editor: MDPI: Life Journal special issue: 'Horizontal gene transfer & its part in the reorganisation of genetics during the LUCA epoch'

Guest Editor: the International J of Astrobiology special issue: 'The routes of emergence of life from LUCA during the RNA and viral world'

Guest Editor: MDPI: Life Journal special issue: 'The landscape of the emergence of life'

Branch Committee Member of the Institute of the Physics (MInstP)

Branch Committee Member of the Royal Society of Biology (MRSB)

Honourable Member of the International Advisory Board of the Oriental Journal of Chemistry

Branch Committee Member and the Deputy Chair of the local branch of the Royal Society of Chemistry (MRSC)

Member of the Royal Astronomical Society (FRAS)

Member of the Royal Astronomical Society's Hot Chemistry Group

Member of the International Society for the Study of the Origin of Life (ISSOL)

Member of the European Astrobiology Network Association (EANA)

Member of the Astrobiology Society of Britain (ASB)

The Royal Microscopical Society

Reviewer on the Journal of Astrophysics and Space Science (ASTR)

Science, Technology, Engineering and Mathematics Ambassador

This email has been scanned by BullGuard antivirus protection.

For more info visit www.bullguard.com Sohan Jheeta <sohan7@ntlworld.com>

Orlando WeevilEvolution Oct1-3

Dear Friends/Colleagues,

There will be a meeting on the systematics and evolution of weevils (The 2016 International Weevil Meeting) held immediately after the International Congress of Entomology (ICE) in Orlando, FL, on Oct. 1-3, 2016. The meeting will be of broad interest to insect evolutionary biologists and systematists interested in plant-herbivore systems, especially those working on beetles. General topics covered will include macroevolution and ecology, biogeography, phylogeny, morphology, and classification. It will consist of a series of invited and contributed talks, and organized discussions of research priorities, goals and methods. Beyond catalyzing new evolutionary and systematics research and collaboration, we seek to provide a forum for identifying priorities and goals for the community of researchers/students who study or otherwise have an interest in weevils, and in identifying areas of research of broader interest to evolutionary biologists interested in plant herbivores and host-herbivore interactions.

Pre-registration for the 2016 International Weevil Meeting will close at the end of the day on Friday, 26 August 2016. On-site registration will be available on the evening of Sept. 30, on a first-come, first-served basis (space permitting). Registration is free, but space is limited, so please register as soon as possible. If you have already submitted your registration, a space has been reserved for you. A final program for the meeting will be sent to registered participants via email in September. Please feel free to forward this email to students and colleagues who may be interested in attending.

You can find the preliminary program at the following links: http://ice2016orlando.org/about/-co-located-events/ http://entsoc.org/PDF/2016/-2016InternationalWeevilMeeting.pdf Dave

Dave Clarke <dclarke@fieldmuseum.org>

Paris HumanPopGenetics Dec7-10

HUMAN POPULATION GENETICS CONFERENCE; PARIS 7-10 DECEMBER 2016 - EXTENDED CALL FOR ABSTRACTS

The 6th international conference of the series DNA POLYMORPHISMS IN HUMAN POPULATIONS will be held in Paris (France), 7-10 December 2016 at the Musee de l'Homme. The conference has a general topic: (Cross-Disciplinary) Human Population Genetics. The conference will be hybrid, allying plenary sessions and three specialized workshops. While a preliminary program is available, we have some room for more presentations, this why an extended *call for abstracts* is now open until the *3ˆrd of September, 2016*.

Registrations will start in late September.

We invite you can submit abstracts concerning posters, or talks in plenary sessions or talks in the frame of the workshops.

Multiple abstracts are accepted. To submit, just send an abstract through the conference website.

Conference website: http://ecoanthropologie.mnhn.fr/-DPHP2016/DPHP2016.htm Contact: dna-paris2016@gmail.com

Franz MANNI <fmanni@mnhn.fr>

SanDiego AvianGenomics Jan14-18

Dear all,

The registration for the PAG meeting is open: International Plant & Animal Genome XXV - http://www.intlpag.org/ - January 14-18, 2017 - San Diego, CA, USA

This meeting is among the largest for non-human genomics globally (thousands of attendants; including a genomics technology fair). Much of it is about plant and animal breeding but over the last few years there is a growing community of Ecology and Evolution sessions with hundreds of attendants across sessions. Last year we successfully hosted a session about non-model avian genomics ("Avian Genomics - Going Wild!") which was well perceived. Please have a look at the speakers and topics of #PAGXXIV: https://pag.confex.com/pag/xxiv/meetingapp.cgi/Session/3531. And here for reference the overall workshop list of #PAGXXIV: https://pag.confex.com/pag/xxiv/meetingapp.cgi/Program/1051 . The conference starts on Saturday, 14th January. On the Friday 13th we will do a pre-conference birding tour around San Diego for everyone who is interested (not only the speakers!!). If you are at PAG and can't give a talk, please be in touch about the birding tour nonetheless.

In our Avian Genomics workshop we seek to present current states of *omics in ecology and evolution of birds, as broadly as possible. I herewith invite contributions from the community for giving a talk. Please send your abstract of 200-300 words to me until 27th August.

Feel free to forward to approach me with questions.

Very best regards, Robert Kraus

robert.kraus@uni-konstanz.de

Seville EcolEvolNGS Jan31-Feb4 DeadlineSep5

Symposium: Investigating ecological and evolutionary processes with NGS The online abstracts submission will expire the 5th of September, 2016.

This symposium is part of the XIV MEDECOS & XIII AEET meeting, which will take place in Seville, Spain, from January 31 to February 4, 2017.

For more information about the meeting, please visit: http://www.medecos-aeet-meeting2017.es/ For abstract submission, please visit: http://www.medecos-aeet-meeting2017.es/Call_for_Abstracts_330_p.htm Miguel Gallach Center for Integrative Bioinformatics Vienna (CIBIV) Max F. Perutz Laboratories(MFPL) Telf: +43 1 4277 74330 Campus Vienna Biocenter 5, Ebene 1 CIBIV, MFPL 1030 Vienna, Austria e-mail: miguel.gallach@univie.ac.at migaca2001@gmail.com

Miguel Gallach <miguel.gallach@univie.ac.at>

GradStudentPositions

ArizonaStateU BioinformaticsPopGenet

PhD Student Position in Bioinformatics/Population Genetics, Arizona State University (ASU)

A PhD student position is available in Susanne Pfeifer's group in the School of Life Sciences at Arizona State University (ASU).

Research in the lab focuses on analyzing the information held by extant variation to learn about genetic and evolutionary processes, utilizing a combination of large-scale data analysis and modelling. Specifically, we are interested in understanding how natural selection shapes patterns of genetic variation in populations as well as to elucidate the causes and consequences of recombination and mutation rate variation. More detailed information may be found on the lab website: < http://spfeiferlab.org/ >.

Our group is located on the main (Tempe) campus of ASU, benefiting from close links to several labs at the interface of bioinformatics, evolution, and genetics, including the Cartwright, Jensen, Stone, and Wilson Sayres groups.

Potential applicants should have a scientific background (e.g., biology, bioinformatics, computational biology, computer science, mathematics, physics, or statistics) and be highly motivated with a genuine interest in evolutionary biology, bioinformatics, and genomics. Applicants are encouraged to email Susanne Pfeifer at <susanne.pfeifer@asu.edu> to express their interest in the position and to investigate the application procedures related to the Evolutionary Biology PhD program for the upcoming fall deadline: < https://sols.asu.edu/-degree-programs/evolutionary-biology-phd >

Susanne Pfeifer, Assistant Professor, School of Life Sciences, ASU

"spfeife1@asu.edu" <spfeife1@asu.edu>

Auckland InsectOdorantEvolution

Postal Address: Plant & Food Research Private Bag 92169, Auckland Mail Centre, Auckland, 1142, New Zealand Physical Address: Plant & Food Research 120 Mt Albert Road, Sandringham, Auckland, 1025, New Zealand

PhD student position

Plant & Food Research, Auckland, NEW ZEALAND

Professor Richard Newcomb (Richard.Newcomb@plantandfood.co.nz)

Assoc. Professor Thomas Buckley (BuckleyT@landcareresearch.co.nz)

The origin of odorant receptors in insects

A PhD position is available to study the origins of a unique family of receptors for odorants and pheromones that arose early in the evolution of insects. Supported from a grant from the prestigious Marsden Fund, the

PhD project will address the timing and role of the first insect odorant receptors. Our hypothesis is that they appeared just before the origin of insect flight and expanded to fill roles in detecting food, predators and/or mates in this new three dimensional environment. The research will involve the isolation of candidate odorant receptors from the transcriptomes and genomes of early insects and their deorphaning in surrogate cell systems.

http://www.royalsociety.org.nz/2015/11/05/was-the-first-smell-of-a-meal-or-a-mate/ The successful candidate will conduct their research within the Auckland laboratories of Plant and Food Research, while being enrolled through the School of Biological Sciences at the University of Auckland. Support includes a $27k p.a. three year stipend with university fees paid. You will work alongside postdoctoral fellows also working on the problem and other members of the Molecular Sensing team within Plant & Food Research, together with collaborators from Landcare Research in New Zealand and the Max Planck Institute for Chemical Ecology in Germany. Candidates should have some background or at least interest in evolutionary genomics, bioinformatics and cell biology.

Richard Newcomb <Richard.Newcomb@plantandfood.co.nz>

CIBIO Portugal ConservationGenetics

1. Research Fellowship Msc

Reference: ICETA 2016-76

Link to the call: http://www.eracareers.pt/-opportunities/index.aspx?task=global&jobId=79845
Main research field: Biological sciences

Job description:

A Research Fellowship Msc (BI) (Reference ICETA 2016-76) is now available in the area of conservation genetics, framed within the project PTDC/BIA-BIC/6582/2014 "MATEFRAG - Impacts of habitat fragmentation on social and mating systems: testing ecological predictions for a monogamous vole through non-invasive genetics" at ICETA-Instituto de Ciencias e Tecnologias Agrarias e Agro-Alimentares, financed by national funds by FCT / MCTES and co-financed by Fundo Europeu de Desenvolvimento Regional (FEDER) throughout COMPETE - Programa Operacional Factores de Competitividade (POFC).

Admission requirements:

Candidates should hold a MSc. degree in Biology or related fields and should have a solid experience in conservation genetics.

The candidates should demonstrate experience in: (i) molecular biology techniques (DNA extraction, PCR, sequencing and microsatellite genotyping), namely with noninvasive samples; (ii) population genetics, parentage analysis and predictive simulations; (iii) management of databases and biological collections. Moreover, preference will be given to candidates with experience in field work with small-mammals, namely noninvasive sampling. High motivation, communication and team work skills, as well as fluency in English (spoken and written) will be highly valued.

Work plan:

The work plan is included in a project which focuses on understanding the impacts of habitat fragmentation on social and mating systems, using a monogamous Iberian-endemic vole (the Cabrera vole, Microtus cabrerae) as model. The candidate will be involved in several tasks: (i) DNA extraction of tissue and noninvasive samples; (ii) amplification and sequencing of molecular markers (mitochondrial DNA and microsatellites); (iii) determination of individual genetic profiles, relatedness and kinship analysis; (iv) predictive simulations analysis; (v) participation in field work; and (vi) management of databases and biological collections. The successful candidate is expected to collaborate in writing technical reports and scientific publications.

Legislation and regulations:

A fellowship contract will be celebrated according to the regulations defined by FCT "Regulations for Advanced Training and Qualification of Human Resources", in accordance with Law 40/2004, of 18 August, as amended and republished by Decree-Law No. 202/2012 of 27 August, and as amended by Decree-Law No. 233/2012 of 29 October and by Law No. 12/2013, of 29 January, and Decree-Law No. 89/2013 of 9 July, to Fellowships Regulation of FCT (www.fct.pt/apoios/bolsas/docs/-RegulamentoBolsasFCT2015.pdf).

Workplace:

The work will be carried out at CIBIO - Research Centre for Biodiversity and Genetic Resources, under the scientific supervision of Prof. Paulo Celio Alves.

Grant duration:

The fellowship will be awarded for a period of 12 months, potentially renewable for an additional period, up to a maximum duration of 24 months; expected to start in the 15th of September 2016.

Stipend:

Monthly stipend is euro980 according to the stipends established by FCT, I.P. in Portugal (http://-alfa.fct.mctes.pt/apoios/bolsas/valores) plus social security. Payment will be made by bank transfer on a monthly basis.

Selection methods:

The ranking of candidates will be performed by a global evaluation based on the CV (40%), previous experience of the applicant relevant to the project and work-plan (40%) and motivation letter (20%). If necessary, an interview with a shortlist of candidates may be performed. The jury may not award the fellowship if the expected quality and requirements of candidates are not fulfilled.

Composition of the Selection Panel:

Prof. Paulo Celio Alves (Chair), Dr. Joana Pauperio (Vowel), Dr. Raquel Godinho (Vowel) and Dr. Nadia Barros (substitute vowel).

Form of advertising/notification of results:

The final evaluation results will be published and the winning candidate will be notified by e-mail or telephone.

Deadline for application and presentation of applications:

The application period will be from the 18th August to 1st September 2016. Applications must be formalized by email to bolsas.cibio@cibio.up.pt together with the following documents:

i. Curriculum vitae;

ii. A motivation letter, including a brief description of the research experience and why the candidate is suitable for the position;

iii. Degree certificates and other documents considered relevant to the application.

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2. Research Fellowship MSc

Reference: ICETA 2016-77

Link to the call:

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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

CornellU HostMicrobeInteractions

The Hendry lab at Cornell University is recruiting Ph.D. students to study host-microbe interactions. Specific research projects are flexible and dependent on the student's interest.

The Hendry lab uses comparative genomics, molecular evolutionary analysis, and ecological studies to understand bacteria-host interactions in a variety of systems. Much of the current work in the lab is focused on the interaction of the plant pathogen Pseudomonas syringae and hemipteran insects such as aphids. P. syringae is a common plant-associated bacterium and is also frequently found in numerous other habitats such as in precipitation and lakes and rivers. In addition to occupying diverse environmental niches, these bacteria can infect and kill a number of hemipteran insects. We are interested in understanding the mechanisms underlying this interaction, as well as the evolutionary and ecological outcomes for both the bacteria and insects, and the ecological and population dynamics of these partners in complex interspecific interactions and across habitats.

Other ongoing projects include understanding genome reduction and the evolution of obligate host dependence in the luminous symbionts of marine fish, and investigating transmission and function of insect microbiomes. For more information, see the lab website (https://-micro.cornell.edu/people/tory-hendry).

The lab is located in the Department of Microbiology and interacts with researchers across Cornell, particularly those working on symbiosis, insect-microbe interactions, and plant-pathogen interactions. Cornell has a vibrant and diverse community of researchers in the biological sciences, with particular strengths in microbiology, insect-microbe and insect-plant interactions, and host-microbe interactions more generally.

Interested applicants can consider applying to the lab through the graduate fields of Microbiology (https://-micro.cornell.edu/academics/graduate) or Entomology (https://entomology.cals.cornell.edu/graduate).

Please email Dr. Hendry (th572@cornell.edu) for more information or to discuss research ideas!

Tory A. Hendry Research Scientist Department of Microbiology Cornell University 260 Wing Hall Ithaca, NY 14853 (607) 255-1950

th572@cornell.edu

LouisianaStateU FungalPhylogenomics

PhD or Masters Student position in Fungal Phylogenomics

A graduate student position (PhD or Masters) is available beginning in January, 2017 to work on one of several fungal phylogenomics projects in the Doyle Mycology Lab (doylemycologylab.org) at Louisiana State University in Baton Rouge, Louisiana. The ideal candidate will be interested in pursuing a PhD, however Masters students will be considered. Candidates with experience in phylogenetics, computational biology, and mycology will be given preference, but good communication skills plus a strong interest in fungal evolution is a must. There will be opportunities to develop a project that combines field, lab, and computational work within the broader scope of our lab's research program. The student will be funded on a research assistantship.

Our lab is generally interested in fungal biodiversity and the processes that lead to species and population divergence in plant-associated fungi. We are also interested in how we can leverage advances in data collection and statistical phylogenetics to improve the reliability of the inferences we draw from phylogenomic data.

Interested candidates should contact Vinson Doyle (vdoyle@agcenter.lsu.edu) with a statement of research interest and pertinent qualifications (CV) prior to applying for the position. Please included "Graduate Studies in Fungal Phylogenomics" in the subject line.

Vinson Doyle, PhD Department of Plant Pathology and Crop Physiology Louisiana State University Email: vdoyle@agcenter.lsu.edu doylemycologylab.org

"VDoyle@agcenter.lsu.edu" <VDoyle@agcenter.lsu.edu>

MasseyU Auckland BacterialBehaviour

PhD Scholarship in Evolutionary Microbiology

Massey University, Auckland, Institute of Natural and Mathematical Sciences

We are looking for an enthusiastic and motivated student with interests in microbiology, evolution, and genomics to work on the evolution of behaviour and memory in natural populations of E. coli. The project will involve characterising the behaviour of bacteria using a range of cutting-edge techniques, including microfluidics, (https://www.youtube.com/watch?v=-3DUVT-zxDj8wQ), automated image analysis, and high-throughput flow cytometry. Modern techniques in experimental evolution, genomic analysis, and computational / statistical analyses will also be used. The precise research direction of the project will depend on where the student's passions lie.

Applicants with a background in molecular biology and microbial genetics are especially encouraged to apply. Previous experience in R / Python / (Perl) is also highly desirable.

The Silander Lab is a newly established lab in the Institute of Natural and Mathematical Sciences at Massey University, Auckland. We are interested in microbial evolution, with a focus on the evolution of transcriptional regulation and other quantitative phenotypes, especially on the single-cell level.

The Institute of Natural and Mathematical Sciences has a young and dynamic faculty with a broad range of research interests, from statistics to ecology to evolution. Massey University is located on the North Shore of Auckland, a city which is regularly ranked among the most liveable cities in the world.

The three year scholarship covers all university fees and includes an annual tax-exempt stipend of $25,000 NZD.

To apply, please send a cover letter and CV, including the names of two references, as a single pdf to Dr. Olin Silander (olinsilander@gmail.com). See osilander.wordpress.com for more information on the lab. Application deadline is Sept. 1 2016. Start date upon mutual agreement, preferably before the end of 2016.

olinsilander@gmail.com

NorthDakotaStateU PlantConservationGenetics

A MSc position in evolutionary and ecological conservation genetics is available to study local adaptation of the perennial native prairie plant, Prairie Smoke with Jill Hamilton at North Dakota State University in Fargo, North Dakota.

Identifying the appropriate seed sources for restoration efforts can be challenging, particularly for geographically isolated populations where historical isolation or contemporary fragmentation may have contributed to differentiation in adaptive traits across a species range. In this project we are investigating the genetic basis of adaptation in Prairie Smoke (Geum triflorum) plant populations. Prairie Smoke is an herbaceous perennial that has a wide geographic distribution spanning much of contemporarily fragmented midwestern prairies, but it is also common to disjunct alvar habitats around the Great Lakes region. Alvar habitats are characterized by thin layers of soil over limestone that harbor unique assemblages of plants that are largely isolated from the core of their continuous range.

The ideal MS student will be prepared to conduct field-based research in a common garden experiment that has been established in Minnesota, with an opportunity to expand locations. There is plenty of room to pursue particular interests in adaptive trait variation depending on the interest and experience of the candidate. The student will also be involved in outreach activities associated with the project engaging local state and NGO stakeholders in applied research.

For more information on the Hamilton Lab please visit the lab website at: http://www.jillahamilton.com and more information on the Department of Biological Sciences at NDSU at https://www.ndsu.edu/biology/. Fargo is the largest city in the northern Midwest and as 'Gateway to the West' is a vibrant, growing community that has access to numerous outdoor opportunities for all seasons.

Interested students are encouraged to contact Dr. Hamilton (jill.hamilton@ndsu.edu). Please include a brief description of your research interests and experience and a CV in your email. Funding options are available for both US students and international students.

jill.hamilton@ndsu.edu

NTNU Norway HerbariumEvolutionaryGenomics

The NTNU University Museum, Department of Natural History PhD position in Herbarium Evolutionary Genomics

The NTNU University Museum is seeking a highly qualified, ambitious, and motivated candidate for a PhD position in herbarium-based evolutionary genomics (genomic sequencing, population genetics, evolutionary genetics) in the Martin lab (www.ntnu.edu/employees/-mike.martin) at the Norwegian University of Science and Technology (NTNU, Trondheim, Norway). The position is for 4 years and available from 1 October, 2016.

THE POSITION The successful candidate will be a member of the Systematics and Evolution research group (SEG) at the Department of Natural History and will be advised by Associate Professor Michael D. Martin. The successful candidate will conduct his/her research in projects focusing on understanding the history and genomic basis of invasiveness in a plant system (Ambrosia artemisiifolia). The research will primarily involve computational analyses and labwork in an ancient DNA facility, although some fieldwork may also be necessary. The successful applicant will be expected to apply bioinformatic tools and population genetic analyses to genomic data generated from both historical and modern tissues. The ideal candidate will be motivated to perform laboratory work in addition to genomic analyses.

QUALIFICATIONS Essential qualifications of the successful applicant: - A Master degree in bioinformatics, computational biology, population genetics, evolutionary biology, or closely related fields of biological research - Scripting/programming proficiency in at least one language (e.g. Python, Perl, R, bash)

Favorable qualifications of the successful applicant: - Previous experience in the analysis of Next-Generation Sequencing (NGS) data - Familiarity with UNIX command line - Experience with genomic laboratory work (e.g., NGS library building, in-solution hybridization, RAD/GBS)

SALARY The PhD position follows code 1017, starting grade 50, gross NOK 435 500 per year (before tax) [approx. USD $53,000]. There will be a 2% deduction to

the Norwegian Public Service Pension Found from gross salary.

For more information about the museum see: ntnu.no/vitenskapsmuseet/english/. Further information about the department and the open position can be obtained from Associate Professor Michael D. Martin (phone: +47 73 59 22 61, e-mail: mike.martin@ntnu.no) or Head of Department Torkild Bakken (phone: +47 73 59 23 82, e-mail: torkild.bakken@ntnu.no).

THE APPLICATION Applications should be submitted electronically with: 1. CV including a list of publications 2. Copies of both Bachelor and Master degrees 3. Copies of publications or other relevant scientific work authored by the applicant 4. Copies of transcripts (including copies of documentation on English language proficiency test for non-English applicants, if available) 5. Contact information for at least two references willing to provide letters upon request 6. A statement/cover letter detailing how this position would match the interests, experience, and career plan and of the applicant

The application must be submitted electronically through www.jobbnorge.no .Please mark the application 2016/14774. Please append all attachments as one file. Application deadline: 15 August, 2016. The official position is described in detail here: https://-www.jobbnorge.no/en/available-jobs/job/126872/phd-position-in-herbarium-evolutionary-genomics Michael D. Martin Associate professor NTNU University Museum Norwegian University of Science & Technology (NTNU)

sameoldmike@gmail.com

NTNU Norway
LifeHistoryAndTelomeres

A PhD position is available at the Department of Biology at the Norwegian University of Science and Technology (NTNU) in Trondheim on the functional relationships between telomere dynamics, individual characteristics and life history traits in a small passerine bird, the House Sparrow (Passer domesticus). The Centre for Biodiversity Dynamics will host the position.

We are seeking a highly qualified candidate with a background in either evolutionary, behavioral or population ecology or eco-physiology. It is an advantage if the candidate has laboratory experience in genetic analyses.

The aim of the PhD project is to investigate central questions related to the functional associations between telomere dynamics, physiological variables, and how these are associated with trade-offs between life history traits such as growth rate, body size, reproduction and lifespan.

Here is the link to the formal announcement: https:/-/www.jobbnorge.no/ledige-stillinger/stilling/127247/-phd-position-in-evolutionary-ecology Application deadline is 15. August 2016. For further information contact: thor.h.ringsby@ntnu.no.

Thor Harald Ringsby <thor.h.ringsby@ntnu.no>

OhioStateU
MolecularBasisCoevolution

The Gibbs Lab in the Department of Evolution, Ecology and Organismal Biology at Ohio State University is interested in recruiting a Ph.D. student, to begin in Fall 2017, to develop a dissertation project that focuses on the molecular basis of coevolution between venomous snakes and their prey. The student would be part of a group conducting collaborative research to identify the genetic, protein and functional basis of the traits that mediate interactions between rattlesnakes and their mammalian prey in an ecological context (for example, see Holding et al. 2016. Proc R Soc B 283:20152841) with the specific focus of the dissertation being flexible depending on the research interests of the student. The student would also have the opportunity to be involved in a recently-awarded NSF Dimensions of Biodiversity grant on snake venom evolution that involves collaborations between institutions in the US and Brazil.

The ideal applicant would have prior research in population genetics or molecular ecology, molecular laboratory skills, strong quantitative skills and proficiency or interest in learning basic bioinformatics. Field experience with vertebrates would be beneficial. A Master's degree is preferred but not required.

The student would join an active lab which applies genomic techniques and bioinformatics analyses to a wide range of questions in the evolutionary biology and conservation genetics of snakes, birds, and salamanders. The Department of EEOB provides year-round financial support (~ $28K/yr plus benefits and tuition) 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.

"gibbs.128@osu.edu" <gibbs.128@osu.edu>

PennsylvaniaStateU EvolBiolHumanParasites

The Perry Lab in the Departments of Anthropology and Biology at Pennsylvania State University is interested in recruiting at least one PhD student interested in the evolutionary biology of human parasites for admission in Fall 2017. The student would develop experimental and functional genomic studies of one or more of our parasites to advance understandings of human evolution by proxy. Selection of specific study organism(s) is flexible and can reflect student interests in a particular parasite, student interests in testing particular hypotheses about human evolutionary history, or both. There are many, many human parasites from which to choose that can be studied with experimental and genomic approaches to inform various aspects of parasite-human co-evolutionary history (for examples, see Perry 2014 "Parasites and human evolution," Evolutionary Anthropology 23:218-28).

Student backgrounds could be in Anthropology, Biology, Microbiology, Parasitology, or any other relevant discipline. Our lab is interdisciplinary, and for this opportunity students could choose to apply via one of three Penn State graduate programs depending on their interests and background: Anthropology, Biology, or Bioinformatics & Genomics. Application deadlines vary among these programs, beginning December 1.

Please visit our website for more information about the Perry Lab and our research:

http://www.anthgenomicslab.com To apply, access the application guidelines and links through the appropriate graduate program's website. Please contact Dr. Perry by email (ghp3@psu.edu) with any questions.

grgperry@gmail.com

StonyBrookU NY HumanPopGen

The Henn Lab has a PhD position open, beginning academic year 2017 and is now accepting applications through the graduate programs in either Ecology and Evolution, or IDPAS (Interdepartmental Doctoral Program in Anthropological Sciences) at Stony Brook University, SUNY. Graduate students should be interested in pursuing research related to genomic diversity in African populations, models of positive selection (adaptive evolution) in Africans, and the genetic architecture of phenotypes like skin pigmentation or infectious disease susceptibility. This position is fully funded for 4 years through a combination of TA-ships and summer research stipends; additional funding for the 5th year or beyond is typically provided through a variety of sources. Funding is anticipated at approximately $26,000 per year with an additional full tuition fellowship. Students will gain strong skills in either computational human genomics through data analysis, and/or field research collection of DNA and associated on-the-ground engagement. Prior academic education in biology, computer science or anthropology is strongly suggested. Stony Brook is located on a 1,040-acre campus on Long Island's North Shore, with connections to New York City and Cold Spring Harbor. A member of the Association of American Universities, Stony Brook is one of the 61 top research institutions in North America.

ecoevo.stonybrook.edu/hennlab/

To apply, please access the application guidelines through the appropriate departmental graduate program and send a cover letter to me (Dr. Brenna Henn) at brenna.henn@stonybrook.edu

Brenna M. Henn

Assistant Professor Dept. of Ecology and Evolution Program in Human Evolutionary Biology 640 Life Sciences Building Stony Brook University, SUNY

brenna.henn@stonybrook.edu

TempleU BiodiversityScience

A PhD Graduate student position with Dr. Matthew Helmus is available at Temple University's Center for Biodiversity for Fall 2017. Dr. Helmus runs a joint lab in the Center with Dr. Jocelyn Behm that is focused on integrating biodiversity science with human ecology to understand contemporary patterns of biodiversity and its functioning within ecosystems.

The PhD student will research the drivers of past and present patterns of amphibian and reptile functional island biogeography. Activities performed may include:

- functional trait measurement - data mining (literature and museum specimens) - genetic sequencing - Caribbean field work - mentoring undergraduate research assistants - quantitative method development

Applicants must have prior research experience and a bachelor's and/or master's degree in biology, environmental science, or other quantitative field. Ideal applicants are those with experience in ecology, macroevolution, statistics, and/or herpetology; but most importantly, the successful applicant will be well-organized, able to work both independently and in a team setting, and motivated to learn. This position is ideal for those craving a career in the exciting, fast-paced world of biodiversity science.

Full applications are due to Temple's Graduate School on December 15 (November 15 for international applicants). However, interested applicants should initially contact Dr. Helmus (mrhelmus@temple.edu) well in advance of the deadline. Include in this initial contact your CV, unofficial transcript, and a brief statement of interest that describes your relevant background experiences, why you are interested in the position, and questions you have about the research, etc. Applicants are strongly encouraged to first peruse the lab website and publications prior to contact (http://www.matthelmus.com/).

The Center for Biodiversity is located in a new LEED-Gold certified building on Temple's main campus in historic Philadelphia. The Center provides state-of-the-art biodiversity research facilities along with support staff with expertise in media development, GIS technology, and genetics. Temple University, founded in 1884, is a public R1 university with a diverse student body of ca. 40,000 students. It is the sixth largest provider of graduate school education in the U.S.A., is within the top 4% of research institutions in the U.S.A., and is in the top ten of the fastest gainers in ranking by the U.S. News & World Report's Best Colleges. Philadelphia is the birthplace of the U.S.A., filled with numerous attractions (e.g., Philadelphia Museum of Art, Philadelphia Zoo, Academy of Natural Sciences), amazing food, and a quick train ride to New York City and Washington DC. Philadelphia is nestled within an extensive national/state trail and park system, and is very close to Valley Forge National Park, the Pocono Mountains, the unique Pine Barren ecosystem, and the beaches of the Atlantic shore.

Temple University is an equal opportunity, equal access, affirmative action employer committed to achieving a diverse community.

For more information see: http://www.matthelmus.com/ http://www.biodiversitycenter.org/ http://bulletin.temple.edu/graduate/scd/cst/biology-phd/ Matthew R. Helmus, Ph.D. Center for Biodiversity Department of Biology Temple University Philadelphia, PA 19122 www.matthelmus.com Phone: 215 204-4244 Email: mrhelmus@temple.edu Office: 502 SERC, Main Campus

"tuf86195@temple.edu" <tuf86195@temple.edu>

UBasel EvoDevoRegulatoryEvolution

Graduate position:

UBasel.EvoDevoRegulatoryEvolution

The Laboratory of Regulatory Evolution (Tschopp group) at the Zoological Institute, University of Basel, is hiring for two fully funded PhD positions.

Our research interests focus on two main questions: 1. How is phenotypic diversity generated during vertebrate embryogenesis? And 2.

how can developmental processes be modified to drive morphological evolution? We are particularly interested in investigating how the evolution of gene regulation is underlying these phenomena. As a model system, we are studying the development of the vertebrate skeleton with its associated neuromuscular system.

In a first project, we will investigate the gene regulatory networks underlying the generation of skeletal cell types, originating from distinct embryonic sources

and in different species. This will allow us to assess the developmental and evolutionary constraints on gene regulation during cell type specification. Secondly, we are interested how cell specification and embryonic patterning are intertwined. To this end, we will study the specification of synovial joints during the embryonic outgrowth of digits, a process contributing important aspects of the patterning diversity seen in the hands and feet of vertebrates.

Both projects build on solid foundations of confirmed preliminary data.

For more information please visit http://-evolution.unibas.ch/tschopp/research/index.htm
We will address these questions using a range of experimental methods, including embryology in chicken, mice and fish; functional genomics (RNA-seq, ChIP-seq, ATAC-seq, STARR-seq); cell culture and viral gene delivery; genome editing (CRISPR-Cas9); bioinformatics and in silico modeling.

Successful candidates will have a background in molecular and/or developmental biology, and ideally will have a basic understanding of Unix and the R language for statistical computing.

Please send your application with a brief statement of motivation, a current CV and contact(s) for references (where applicable) to patrick.tschopp@unibas.ch Evaluation will begin on Sept. 1st 2016 and suitable candidates will be contacted shortly after.

The University of Basel is an equal opportunity employer and encourages applications from female candidates.

Patrick Tschopp <patrick.tschopp@unibas.ch>

UBirmingham DaphniaEvolution

The Ben Brown (http://www.birmingham.ac.uk/-schools/biosciences/staff/profile.aspx?ReferenceId=-120092&Name=professor-james-bentley-brown) and Leda Mirbahai (http://www.birmingham.ac.uk/-schools/biosciences/staff/profile.aspx?ReferenceId=-104831&Name=dr-leda-mirbahai) Research Groups (http://vancleve.theoretical.bio) in the School of Biosciences at the University of Birmingham, UK are currently recruiting Ph.D. students to join the lab by January 2017. The lab is generally interested in understanding the evolution of epigenetics mechanisms and their role in regulation of complex traits, such as ageing and phenotypic plasticity in the invertebrate model organism Daphnia. Majority of the research in the group is aimed at 1) investigating functional evolution of epigenetic factors, 2) linking epialleles to specific phenotypic endpoints and 2) achieving a better understanding of the inheritance of epigenetic markers.

The ideal applicant will have prior research experience in bioinformatics and analysis of high through put sequencing data. Prior experience in epigenetics and or genome editing would be advantageous. The project will involve substantial bioinformatics, quantitative genetics and working with Daphnia (wet lab).

The Ph.D. position is funded for 4-years and is open to UK and EU students. The candidate can start as soon as possible but no later than January 2017.

To apply, please first email Leda Mirbahai (l.mirbahai@bham.ac.uk) a single PDF containing (1) a statement of interest, (2) a CV, and (3) contact information for three references as soon as possible. Please indicate “Epigenetic PhD position” in your subject line.

Leda Mirbahai

School of Biosciences University of Birmingham E-mail: l.mirbahai@bham.ac.uk

Leda Mirbahai <l.mirbahai@bham.ac.uk>

UCanterbury MetagenomicsBioinformatics

PhD position in Bioinformatics and Metagenomics, Canterbury, New Zealand

http://www.ucbioinformatics.org/opportunities.html
There is an open PhD position to build bioinformatic approaches for analysing large and diverse pathogen genomic and metagenomic datasets at the University of Canterbury in New Zealand.

The successful candidate will be involved in analysing a wealth of data generated by new sequencing technologies. The research group has a broad range of interests including the bioinformatic characterisation of comparative genomics, enviromental sequencing (metagenomic, barcoding), RNA-seq, proteomics, sequence and structural motif analysis and the analysis of transposon mutagenesis libraries.

Potential projects could include developing methods for identifying DNA sequences from pathogens in metage-

nomic or metabarcoding datasets using sequence analysis tools. We are also interested in developing a live benchmark of metagenomic analysis tools (nucleotid.es is a nice example of this).

The bioinformatics team at the School of Biological Sciences is a dynamic group, interested in the free and rapid dissemination of research discoveries. They collaborate widely, including with groups in the UK, Denmark, US, Sweden, Germany and Australia.

For further enquiries please contact: Paul Gardner (paul.gardner@canterbury.ac.nz)

Required background: An honours or masters degree in a biological or mathematical discipline such as biochemistry, genetics, molecular biology, maths, statistics, physics, computer science or equivalent, and a demonstrated interest in developing bioinformatic skills.

Please submit with your application: 1. A cover letter. 2. A CV, with 3 academic references. 3. Academic transcripts from your post-graduate and under- graduate degrees. 4. A brief project proposal based upon these references.

Closing date 20 September, 2016.

A PhD stipend of up to $28,000 NZD including fees will be co-funded by the Biological Heritage National Science Challenge and the University of Canterbury.

ppgardner@gmail.com

UCentralFlorida PlantEvolutionaryEcophysiology

The Mason Lab (https://-plantevoecophys.wordpress.com/) in the Department of Biology at the University of Central Florida is currently recruiting motivated, curious, and enthusiastic PhD students to join the lab in Fall 2017. As a plant evolutionary ecophysiology lab, our research naturally centers on the intersection of plant ecology, evolution, physiology, and genetics. We are especially interested in the physiological and genetic mechanisms underlying plant adaptation to diverse environmental pressures, including abiotic factors like climate and soil fertility, and biotic factors like herbivory and disease. All plants face physiological trade-offs between growth, defense, and reproduction, and we seek to understand the coordinated evolution of the traits that govern these three core functions. Our research addresses a variety of questions across multiple scales, from macroevolution to population differentiation to within-individual variation, as well as in multiple systems, from crops to wild herbs and woody plants.

Project topics for prospective students are highly flexible, and interested students should contact Chase Mason (chasemason.evolution@gmail.com) to discuss research interests before applying to the Department of Biology Graduate program (https://biology.cos.ucf.edu/-graduate-program/), which has a deadline of January 15th. The Department of Biology provides teaching and research assistantships, tuition waivers, and health insurance, and a variety of competitive university fellowships are also available. The University of Central Florida is the largest university in the United States, with an enrollment of 63,000 students. Over the past two decades, UCF has undergone a dramatic expansion and development into a modern R1 university. UCF is currently making major investments in research, including hiring more than 200 new tenure-track faculty and increasing graduate program enrollment by 25% over the next five years. UCF is an equal opportunity, equal access, and affirmative action employer.

Chase Mason

Assistant Professor Department of Biology University of Central Florida

Email: chasemason.evolution@gmail.com

Website: https://plantevoecophys.wordpress.com/
chasemason.evolution@gmail.com

UCollegeCork Ireland EvolutionaryEcolFish

PhD STUDENT POSITION IN FISH EVOLUTIONARY ECOLOGY (Cork Ireland)

Alternative life histories: evolutionary ecology and genetics of facultative anadromy in Brown Trout

We seek a highly motivated graduate who wants to gain a PhD in the area of evolutionary ecology/genetics working in collaboration with scientists at University College Cork (UCC) the Marine Institute of Ireland and Queens University Belfast (QUB). This 4 year position is funded through a European Research Council (ERC) Starting Grant and will attract an annual tax-free stipend of euro 18000 plus an amount equivalent to EU fee rates (non-EU members may apply but would need to cover

extra fees themselves).

What it's about: Understanding how and why individuals develop strikingly different phenotypes and life histories in variable environments is a major goal in evolutionary ecology. It is also a prerequisite for conserving important biodiversity within species and predicting the impacts of environmental change and management interventions on natural populations. This PhD will form part of a larger ERC-funded research program to understand the causes and consequences of "facultative anadromy" in brown trout (Salmo trutta) the phenomenon whereby some individuals in a population migrate to the sea for part of their lives while others remain resident in freshwater and never go to sea. See http://tinyurl.com/z7uxs5r for a recent review. The successful candidate with be involved in a large-scale reciprocal transplant, field experiment where the goal is understand how genes and environment interactively determine alternative life histories. A background in or familiarity with the concepts of quantitative genetics would be particularly useful and there is also ample scope and resources for developing population/landscape genomics or gene expression approaches to probe the genetic basis of anadromy/migration and associated traits.

The student will be supervised by Drs Tom Reed (UCC) and Phil McGinnity (UCC and Marine Institute) and will work in a growing team of salmonid researchers with a broad network of collaborators across academic and governmental institutions in Ireland and abroad. The student will be primarily based at the School of Biological Earth and Environmental Sciences (BEES) at University College Cork (UCC) in the south of Ireland which offers a vibrant and diverse research environment. Cork is a dynamic cosmopolitan and culturally-diverse coastal city with beautiful landscapes and diverse options for outdoors pursuits on its doorstep. The student will also be expected to spend periods of time at the Marine Institute's Newport Catchment Facility (http://tinyurl.com/j5o4d8a).

Candidates should possess at minimum a 2.1 BSc (Hons) degree in a relevant discipline (e.g. Ecology Evolution, Zoology, Genetics). Applicants must be self-motivated with good numerical communication, organisational and writing skills. Experience working with fish would be advantageous but not essential; as would molecular laboratory and/or bioinformatics skills. The studentship is open to non EU students though only EU fee rates will be covered.

Informal Enquiries: Please contact Dr Tom Reed (Email: treed@ucc.ie)

Remuneration: This position covers an amount equivalent to EU fee rates (non-EU members may apply but would need to cover extra fees themselves) plus a tax-free stipend of 18000 p.a.

To apply please send by email a CV details of 2 referees, and an accompanying letter of application outlining your relevant experience and why you want to do this studentship to Dr T. Reed School of Biological Earth & Environmental Sciences, University College Cork, Enterprise Centre Distillery Fields, North Mall, Cork, Ireland. E-mail treed@ucc.ie

Dates: Application deadline is 31 Aug 2016. Start date autumn/winter 2016.

Webpage of PI: http://research.ucc.ie/profiles/D026/-treed treed@ucc.ie

UGroningen 12 EvolutionaryBiol

12 PhD positions in Evolutionary Life Sciences

The University of Groningen has an international reputation as a dynamic and innovative institution of higher education, offering high-quality teaching and research. The Groningen Institute for Evolutionary Life Sciences (GELIFES), the largest institute of the Faculty of Mathematics and Natural Sciences fills a special niche in the life sciences by covering and integrating mechanistic, evolutionary and ecological approaches, aiming to understand adaptation on all levels of biological organisation. Researchers pursue fundamental questions while collaborating with partners from industry, medicine and other realms of society. For its new research programme, Adaptive Life, GELIFES is looking to fill 12 Scholarship PhD positions. For more information on available positions, qualification requirements and the application procedure, please consult our website: http://www.rug.nl/research/fmns/-themes/adaptive-life/research/phd-projects .

More information about the PhD-training programme and scholarship can be found via: https://www.rug.nl/education/phd-programmes/-phd-scholarship-programme/ Maartje Giesbers <m.c.w.g.giesbers@rug.nl>

UIllinois UC EvolutionaryImmunology

Doctoral student positions in evolutionary immunology of human and nonhuman primates

Doctoral positions in evolutionary immunology and functional genomics are available in the Brinkworth Evolutionary Immunology and Genomics lab, Department of Anthropology, University of Illinois Urbana-Champaign. The lab investigates how primate genome expression has diverged and diversified, with particular attention paid to the evolution of the human innate immune response. Applicants should have research experience, as well as strong interests in human/non-human primate evolution, immunology, genomics, bioinformatics or infectious disease. Positions are contingent on acceptance into the Department of Anthropology PhD program.

Projects: Students will be involved in the conceptual development, execution and publication of research concerned with evolutionary genomics, including but not limited to, primate comparative immunity, and the diversification of the human immune response. Students will use a broad range of immunological and cell biology techniques, in combination with bioinformatic methods to investigate questions of how immune function has evolved in humans and other primates.

Funding: Students are guaranteed full funding for 5.5 years. Support is provided via a combination of RAships, TAships and writing fellowships.

Who should apply: Candidates with an interest in the evolution of immune function/evolutionary genomics. Diverse educational backgrounds are welcome including anthropology, biology, bioinformatics,computer science, epidemiology etc. Experience with genetics/genomics, immunological bench and analytical methods and clean technique are strongly preferred.

UIUC: The positions offer an exceptional opportunity for highly collaborative research in a new facility, using state of the art immunological, genomic and computational techniques to answer questions relevant to both human evolutionary biology and disease. The UIUC is a competitive very high research/R1 institution, with a selective and very well respected Department of Anthropology and a worldwide reputation for excellence in genomics, supercomputing and engineering. The Institute for Genomic Biology, The Beckman Institute for Advanced Science and Technology, National Center for Supercomputing Applications foster a thriving research environment and provide many unique resources that can be woven into a student's projects. Located a few hours outside of Chicago, Urbana-Champaign is home to the Krannert Center for the Performing Arts, Roger Ebert film Festival, Krannert Art and Spurlock Museums, a host of local cooperative theatres and farmer's and art markets. Chicago is readily accessible via Amtrak, bus or car.

Application and Deadline: Queries should be sent to jfbrinkw AT illinois DOT edu. Please include a statement of interest (1 page), and a CV describing your previous education/internships/projects/employment/scholarships and publications, along with contact information for three references. Positions in this lab require acceptance into the UIUC Department of Anthropology PhD program. Applications for acceptance into the graduate program should be made online http://-www.anthro.illinois.edu/programs/graduate/ by the *program deadline December 1, 2016. *Please visit the lab's website at www.jfbrinkworth.com for lab information.

Jessica Brinkworth <jfbrinkworth@gmail.com>

UKentucky QuantitativeEvolutionEcology

The Van Cleve Research Group (http://-vancleve.theoretical.bio) in the Department of Biology at the University of Kentucky is currently recruiting Ph.D. students to join the lab in Fall 2017. The lab in generally interested in quantitative and mathematical approaches to evolutionary biology and ecology. Past and current research areas include social evolution and other topics in evolutionary ecology, the evolution of phenotypic plasticity and bet-hedging, and epigenetic processes including genomic imprinting (see here for publications: http://vancleve.theoretical.bio/publications).

Additionally, the lab aims to be broadly interdisciplinary across complex biological systems from the molecular to metapopulation scales and welcomes applicants interested in quantitative approaches and with diverse backgrounds including (but not limited to) mathematics, physics, computer science, and economics.

The exact research project topics for potential students are flexible, though interested individuals should contact Jeremy Van Cleve (jvancleve@uky.edu) with a CV and short statement of interests before applying.

Applicants should apply to the Department of Biology Graduate program (http://bio.as.uky.edu/grad-program), and admission guidelines can be found at: http://bio.as.uky.edu/admissions-0. Stipend, tuition, and medical insurance, are covered as part of a teaching assistantship and research assistantships and fellowships are competitively available.

Questions about the Biology Graduate program can be sent to the Director of Graduate studies, David F. Westneat (biodfw@uky.edu).

Please note that applications should be received by *January 1st 2016* for full consideration.

Jeremy Van Cleve

Assistant Professor Department of Biology University of Kentucky E-mail: jvancleve@uky.edu Webpage: http://vancleve.theoretical.bio Phone: (859) 218-3020

"jvancleve@uky.edu" <jvancleve@uky.edu>

UMaine DiseaseEvolution

PhD Position: Ecology and Evolution of Diseases (University of Maine)

Job Description:

A Ph.D. research assistantship is available through the Ecology & Environmental Sciences Program (http://umaine.edu/ees-graduate/) in the College of Natural Sciences, Forestry and Agriculture, School of Food and Agriculture at the University of Maine, Orono. The student will develop and conduct research on the ecology and evolution of infectious diseases inwildlife and domestic animals using genetic approaches. Research topics may include the investigation of: (1) eco-evolutionary drivers of transmission and spillover, (2) host-pathogen adaptation, (3) the genetic basis for heterogeneity in host susceptibility, and (4) disease transmission pathways using genetic data. This position will involve interdisciplinary research with strong field, laboratory and analytical components. Data collection may require international fieldwork (depending on the choice of research topic).

The student will have the unique opportunity to be part of the new interdisciplinary Center for One Health & the Environment (https://sbe.umaine.edu/school/center-for-one-health-the-environment/) and have the potential to collaborate with the UMaine Animal Health Laboratory (https://extension.umaine.edu/veterinarylab/).

Salary: $19,467 annual stipend, tuition waiver (up to 9 credit hours/semester, 1 credit hour in summer), 50% health insurance

Qualifications: Bachelor's degree in biology, ecology, evolution, microbiology, immunology, epidemiology, genetics, bioinformatics, or a related field. Preferred candidates will have a Master's degree or equivalent experience and be accomplished in writing, statistics, molecular methods, population/ phylogenetic analyses, and field skills.

How to Apply: Interested qualified applicants are encouraged to email a cover letter, CV/resume, unofficial transcripts, writing sample, and the names and contact information for three references to Pauline Kamath (paulinekamath@gmail.com).

Expected Start Date: January 17, 2017

Last Date to Apply: September 4, 2016

Pauline Kamath, Ph.D.

College of Natural Sciences, Forestry and Agriculture School of Food and Agriculture University of Maine, Orono

Email: paulinekamath@gmail.com

Pauline Kamath <pauline.kamath@maine.edu>

UMainz EvolutionAntBehaviour

PhD position in Animal Behaviour: Information-use and Communication in Ants

Application deadline: 19ˆth September 2016

We invite applications for a 3-year DFG (German Research Foundation) funded PhD position (65% TVL E13) at the Johannes Gutenberg University of Mainz, Germany. We are looking for a highly motivated student to study communication and foraging in ants. The project investigates foraging strategies in ants that use tandem running as a recruitment strategy (mainly Temnothorax and Pachycondyla). The research will include experimental work in both laboratory and field (including field trips to Brazil) and a possibility to combine empirical work with simulation modeling.

We are looking for a candidate with a Masters degree (or equivalent) in Biology and a strong background in behaviour, ecology or evolution. Good English skills and an ability to work independently and as part of a team are important. Experience with social insects, statistical or modeling methods and a knowledge of German are helpful but not a requirement. The working language of the laboratory is English. The Johannes Gutenberg-University Mainz is interested in increasing the number of women in science. Applications from women are therefore strongly encouraged. Similarly, qualified candidates with disabilities will be preferred.

The successful applicant will join an international and interactive scientific environment with access to state-of-the-art, newly equipped laboratories. More information about our research interests and recent publications can be found here: http://www.bio.uni-mainz.de/zoo/-evobio/index_ENG.php. The University of Mainz hosts many excellent scientific institutions (http://www.uni-mainz.de/eng/) and Mainz is a historic city located on the Rhine River with a large student population and a rich social and cultural life.

How to apply: applications should include (1) a 1-page cover letter describing your motivation, previous research activities and current research interests, (2) a CV of the applicant and (3) the names and email addresses of 2 referees. Send all documents as a single pdf-file before the 19ˆth September 2016 to cgrueter@uni-mainz.de. Applications must be written in English. Skype-interviews for short-listed candidates will be scheduled for early October. Earliest possible start date is December 2016. Informal enquiries should be sent to:

Dr. Christoph Gruter (main supervisor)

E-Mail: cgrueter@uni-mainz.de

Institute of Zoology

University of Mainz

Johannes von Muller Weg 6

D-55099 Mainz

Germany

Websites: www.socialinsect-research.com & http://www.bio.uni-mainz.de/zoo/evobio/-524_ENG_HTML.php "Grüter, Dr. Christoph" <cgrueter@uni-mainz.de>

UMaryland Baltimore ConservationBiology

PhD Student Opening - Bahama Oriole Project - Omland Lab UMBC

PhD student sought for conservation biology project on the critically endangered Bahama Oriole. Research team is being led by Kevin Omland, Biology, UMBC, in collaboration with researchers in geography at UMBC (Colin Studds, avian population ecology; Matt Fagan, remote sensing and forest birds) and Scott Sillett (Smithsonian Conservation Biology Institute). The student could choose to focus on any one or two aspects of the project including: 1) conservation genetics of populations on three different parts of Andros (and relative to the extirpated population from Abaco (also ancient DNA),2) population size estimation and habitat usage, 3) breeding ecology including cowbird parasitism and predation by introduced predators, and 4) remote sensing and details of habitat usage in breeding and non-breeding season (in relation to fire and climate change). Please contact Kevin Omland and look for Omland, Studds and Sillett at the upcoming bird meeting in Washington DC. Please send CV and short paragraph on research interests.

Kevin Omland, omland@umbc.edu, cell 301-332-7749

Colin Studds, studdsc@umbc.edu Matt Fagan, mfagan@umbc.edu Scott Sillett, silletts@si.edu

* The Bahama Oriole Project is a collaboration between

the Omland Lab (University of Maryland, Baltimore County) and the Bahamas National Trust. https://-www.facebook.com/BahamaOrioleProject – Kevin Omland, PhD Professor of Biological Sciences UMBC Presidential Research Professor 2016-2019

Department of Biological Sciences University of Maryland, Baltimore County 1000 Hilltop Circle Baltimore, MD 21250 http://-biology.umbc.edu/directory/faculty/omland/ https://-www.facebook.com/BahamaOrioleProject/ Omland Kevin <omland@umbc.edu>

UMaryland EcologicalGenomics

The Gugger Lab (http://pgugger.al.umces.edu) at the University of Maryland Center for Environmental Science (UMCES) is seeking a motivated Ph.D. student to develop a dissertation project on ecological genomics of trees. The lab uses 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 applicant will have prior research experience in population genetics or plant ecology/evolution, molecular laboratory skills, strong quantitative skills, and proficiency in or interest in learning basic bioinformatics. A Master's degree is preferred, but not required.

The Ph.D. student will matriculate through the Marine, Estuarine, and Environmental Sciences (MEES) Graduate Program (http://mees.umd.edu/) at the University of Maryland, College Park but will reside at the Appalachian Laboratory in Frostburg (western MD, http://www.umces.edu/al) for the duration of the degree. Three years of support are available through research assistantships, with additional support through competitive teaching assistantships and fellowships (e.g., http://www.umces.edu/education/-graduate/fellowships). Starting date can be as soon as January 2017 and no later than August 2017.

To apply, please first 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.

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>

UMiami AvianAdaptation

PhD Student Positions in High-altitude Adaptation

Graduate student PhD positions are available beginning August 2017 to work on the mechanistic and genetic basis of hypoxia resistance in Andean waterbirds, at the University of Miami in Coral Gables, Florida, with Kevin McCracken and collaborating investigators Graham Scott (McMaster University), Neal Dawson (McMaster University), and Bill Milsom (University of British Columbia).

We seek one or more PhD students with interests in integrated physiology and genetics to collaborate on comparative studies of Andean ducks or other high-altitude waterbirds. Studies are not limited to but might include respiratory and cardiovascular physiology, enzyme function, and histology. Students with an interest in population genomics and gene expression also are encouraged to contact us.

Travel to high-altitude field sites in South America and to the collaborating labs in Canada will be required. Experience and/or interest in preparing specimens for museum archival and genetic resources collections is desirable. Spanish speaking/writing skills also would be helpful. Students from South American countries are especially encouraged to apply.

Typical duration of funding for a PhD student at the University of Miami is at least five years with stipends of approximately $20,000/year, including a full tuition waiver and health benefits. Both university fellowships and departmental teaching assistantships are available.

Applications to the PhD program at UM are due 1 December 2016 for fall 2017 admission (http://-www.as.miami.edu/biology/graduate/).

Individuals who want to apply should first send a statement including background and research interests and curriculum vitae to:

Dr. Kevin McCracken

Kushlan Chair in Waterbird Biology & Conservation

Department of Biology & Rosenstiel School of Marine and Atmospheric Sciences

University of Miami

Coral Gables, FL 33146, U.S.A.

kmccrack@bio.miami.edu

http://www.bio.miami.edu/mccracken/ Kevin G. McCracken Department of Biology, College of Arts & Sciences Department of Marine Biology & Ecology, Rosenstiel School of Marine and Atmospheric Sciences University of Miami Coral Gables, FL 33146, U.S.A.

Offices: 188 Cox (Biology)/136 Marine Technology & Life Sciences Seawater Research Building (RSMAS) Lab: 188 Cox (Biology)

http://www.bio.miami.edu/mccracken/ email: kmccrack@bio.miami.edu

Kevin McCracken <kevin.g.mccracken@gmail.com>

UPotsdam Biodiversity

Small mammal communities in a rural-urban gradient

PhD Position at the workgroup of animal ecology,

University of Potsdam**

**

Background

Within the Berlin-Brandenburg Institute for Advanced Biodiversity Research (BBIB, www.bbib.org) the University of Potsdam takes part in the "Bridging in Biodiversity Science" (http://www.bbib.org/bridging-in-biodiversity-science.html) project funded by the Federal Ministry of Research and Education (BMBF). This highly dynamic consortium was formed to implement a new interdisciplinary research initiative to bridge disciplines, scales and systems in biodiversity research.**

The workgroup *Animal Ecology* at the *University of Potsdam* seeks to fill a *PhD position* within the work package "Rural-urban coupling" (http://www.bbib.org/-rural-urban-coupling.html) as soon as possible.

*Tasks***

As part of this research consortium, the PhD student will investigate the biodiversity, community composition, population characteristics and adaptive strategies of small mammals along a rural-urban gradient in and around Berlin. Methods will include automated radio-tracking and capture-mark-recapture, as well as the analysis of genetic samples to assess population structure of selected species in a landscape context. There is also a possibility to conduct a citizen science project.

What do we offer?

The position is funded until March 2019 with a salary according to E13 TV-L (50%), and is embedded in thestimulating research environment within the interdisciplinary and collaborative context of the BIBS-Project.The research group Animal Ecology at the University of Potsdam consists of three scientists (Eccard and Dammhahn: animal ecology and behavioural ecology, Scheffler: human biology), two technicians and several PhD students working in different projects in behaviour, evolution and conservation. Potsdam is a beautiful town 20km southwest of Berlin and offers a lot of opportunities to live and work in.

*The candidate is required to have ***

completed master's/diploma degree in biological sciences or a closely related field

background or strong interest in animal ecology, evolutionary ecology and animal behaviour

in statistical methods, experience in using R and geographic information systems (GIS)

oral and written English language skills

experience in field research, e.g. in radio-tracking, handling of small mammals; a driving license would be an advantage

Application

Applications should include the following components: a detailed CV, a letter of motivation, copies of relevant degrees and contact information of two referees. The files should be sent, by e-mail, in *one single PDF document *(< 10 MB) to Prof. Dr. Jana Eccard (eccard@uni-potsdam.de) and to Maria Thrun (mthrun@uni-potsdam.de) from now on but latest on *September 15th, 2016*. The Animal Ecology workgroup strives to increase the proportion of women in research and specifically encourages females to apply for this position. Disabled applicants will be given preference in case of equal suitability.

Angelika Beck <anbeck@uni-potsdam.de>

URhodeIsland PhytoplanktonEvolution

There is an open PhD position at the Graduate School of Oceanography, University of Rhode Island, focused on *Gene flow, connectivity and diversity in Southern Ocean diatoms:*This PhD project will be associated with a collaborative project focused on examining links between diversity, gene flow and plasticity in Antarctic diatoms. The Southern Ocean is one of the most productive regions on the planet, yet very little is known about the population structure, gene flow, and functional diversity of the microbes that form the basis of this ecosystem.This is a fantastic opportunity for a graduate student to examine the evolutionary potential of key players in global biogeochemical cycles.Possible research questions include:What is the magnitude of gene flow between diatom populations across the Southern Ocean, and what functional implications does this have now and in the future?How does being cold adapted influence evolutionary and demographic responses to global change?

Applicants should have undergraduate and/or MSc degrees, with backgrounds in population genetics, physiology, microbiology and/or evolutionary biology. More information on research in the Rynearson lab can be found here: (http://www.gso.uri.edu/rynearson-lab/-).Before applying, please send a short research interest statement and CV to Tatiana Rynearson with the subject line "PhD position".Emails without this subject line will not be read.

Time line:

Initial queries should be sent by September 30, 2016.

Start date for the position at URI as early as January 23, 2017.

Tatiana Rynearson Professor Graduate School of Oceanography University of Rhode Island, Bay Campus South Ferry Road Narragansett, RI 02882-1197 Phone (401)874-6022 http://www.gso.uri.edu/rynearson-lab/ Tatiana Rynearson <rynearson@uri.edu>

USP Brazil DevoDiversity

Dear Colleagues,

The Brown Lab at the Instituto de Biociências in Brazil (USP) is recruiting a doctoral student to join the international project, DEVODIVERSITY, funded by the Sāo Paulo Research Foundation (FAPESP) in collaboration with the Tiozzo Lab funded by the French Agence Nationale de la Recherché (ANR). DEVODIVERSITY examines the evolution of regeneration, asexual reproduction, and clonality in several species of ascidians (Urochordata), and examine how ecological factors affect distribution ranges, evolution of life cycles, and developmental strategies.

The main objectives of the doctoral project include: (1) To resolve phylogenetic relationships within the Styelidae by using alternative molecular and phylogenomic methods. (2) To reconstruct possible scenarios of colonial evolution by theoretical and experimental approaches. (3) To study within theoretical and experimental frameworks the main processes of evolution in colonial ascidians (including natural selection, genetic drift, gene flow, and mutation) to understand the origins and persistence of clonality and asexual reproduction.

The candidate should have strong interests in cell and molecular biology as well as evolutionary developmental biology.

Position available: 1 FAPESP Doctoral position (Doutorado Direito or DD): a 4-year position for a highly motivated candidate. The successful candidate will join the EvoDevo lab in Sāo Paulo (Brazil) and will have the opportunity to do laboratory and/or fieldwork at the Tiozzo lab (France) in Villefranche-sur-Mer. The candidate will need to be approved by the Graduate Program in Zoology at the Instituto de Biociências at the Universidade de Sāo Paulo in order to get the fellowship. Fellowship norms and salaries follow the general guidelines of FAPESP. Portuguese is desirable but not necessary, as the candidate will need to provide a proof or Portuguese proficiency only after the first year.

Please submit your letter of interest, updated CV, and contact information of three references to Federico Brown (IB-USP, Brazil) by September 5th, 2016. The selected candidate is expected to begin his doctorate in February 1st, 2017.

Contacts & Additional Info: Federico Brown (fd-

brown@usp.br): http://zoologia.ib.usp.br/evodevo2/ Instituto Biociências USP: http://www.ib.usp.br/en CEBIMAR: http://cebimar.usp.br/index.php/en/ Graduate Program in Zoology (in Portuguese only): http://-www.ib.usp.br/zoologia/poszoologia/ FAPESP DD Fellowship (in Portuguese only): http://www.fapesp.br/-278 Stefano Tiozzo (tiozzo@obs-vlfr.fr): http://-biodev.obs-vlfr.fr/ ~ tiozzo/tiozzo-lab LBDV: http://-biodev.obs-vlfr.fr/en/index.html Best regards,

Federico

Federico D. Brown Professor Doutor Departamento de Zoologia - Instituto Biociências Universidade de Sāo Paulo Tel: +55 11 3091.0950 Lab website: http://zoologia.ib.usp.br/evodevo2/ CV lattes: http://lattes.cnpq.br/5447668124359385 Submit your articles to the new open access, free of charge, and double blind review journal Neotropical Biodiversity! (http://www.tandfonline.com/action/-authorSubmission?journalCode=3Dtneo20&page=-instructions#.VNoCwMa8olI)

fdbrown@usp.br

USunshineCoastAustralia DragonUrbanisation

Adaptation to urbanisation - PhD

http://www.usc.edu.au/learn/what-will-i-pay/-scholarships/research-scholarships/adaptation-to-urbanisation-phd-scholarship About the research

Urbanisation is driving some of the most dramatic and swiftly occurring environmental change across the globe, and cities - as epicentres of development - present extensive new challenges for wildlife. In my research lab we used the native eastern water dragon to study the mechanisms of adaption to city life.

In the last few years, my research lab and I have gathered mounting evidence that eastern water dragons are undergoing rapid contemporary evolution within the city of Brisbane. We are now uniquely placed to understand what it is about city life that drives this extensive divergence. As such, this phd project could focus on a variety of research topics and as such students interested in the following subject should apply: ecology, animal movement, physiology, ecology and/or genomics.

My research lab uses longitudinal life-history datasets on wild populations comprising behavioural, spatial and genetic information to understand how free-living animals evolve in the wild. In particular, we aim to shed light on how environmental and social factors influence evolutionary processes.

About the candidate

The ideal candidate will have a strong academic record and graduate degree(s) in Biology, Physiology, Ecology, Genetics or a related field.

The Frere lab is a friendly, supportive lab with high work ethics. You will fit well if you are hardworking, passionate, supportive of others and work well as part of a team.

About the campus

The University of the Sunshine Coast (USC), Australia, is a thriving small university seeking to deliver innovative, high-quality research with real impact. The campus is modern with state-of-the-art facilities and situated in a reserve (with kangaroos jumping by as you enjoy your morning cup of coffee), the quality of life is high with stunning surf beaches minutes away. USC is one hour from Brisbane International Airport.

Please contact Dr Celine Frere via email cfrere@usc.edu.au for more information.

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

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“rcristes@usc.edu.au” <rcristes@usc.edu.au>

USunshineCoast Australia KoalasConservation

The Frere lab at the University of the Sunshine Coast has a unique opportunity for high quality and highly motivated students to enrol in a PhD research project focusing on koala ecology and rehabilitation embedded within the Detection Dogs for Conservation program, starting January 2017. The successful applicant will need to secure their own scholarship.

About the campus

The University of the Sunshine Coast (USC), Australia, is a thriving small university seeking to deliver innovative, high-quality research with real impact. The

campus is modern with state-of-the-art facilities and situated in a reserve (with kangaroos jumping by as you enjoy your morning cup of coffee), the quality of life is high with stunning surf beaches minutes away. USC is one hour from Brisbane International Airport.

About the research

The Frere lab's specialises in Ecology, Genetics and Behaviour (http://celinefrerelab.com/).

The Detection Dogs for Conservation program (http://-/www.usc.edu.au/DDC) is a new and energetic team that uses highly trained detection dogs to study animals in the wild. The research project will focus on three primary questions: 1) determine whether rehabilitated land can provide safe koala habitat and thus maintain healthy population; 2) what ecological factors are key to successful rehabilitation in the context of koala; and 3) can we map and predict where rehabilitation would have the highest positive impact for koalas?

The project will require the student to have a driving licence given that the project will include heavy fieldwork (4wd to access sites). The student will be trained in the handling of trained detection dogs, performing ecological surveys, collecting scats, undertaking molecular work of scats for genetic and disease information, mapping and analysing in ArcGIS, as well as extensive statistical analyses and publication writing.

About the candidate

The ideal candidate will have a strong academic record and graduate degree(s) in Biology, Physiology, Ecology, Genetics or a related field. The candidate will be trained to handle our detection dogs, so no handling experience is required, however experience with animal training can be advantageous.

The Frere lab is a friendly, supportive lab with high work ethics. You will fit well if you are hardworking, passionate, supportive of others and work well as part of a team.

Students (domestic or international) with a high level of relevant qualifications, research experience and enthusiasm will be invited to apply for a very competitive Australian Postgraduate Award scholarship (Domestic students, http://www.usc.edu.au/learn/-what-will-i-pay/scholarships/research-scholarships/-australian-postgraduate-awards) or International Postgraduate Research Award scholarship (International students, http://www.usc.edu.au/learn/what-will-i-pay/scholarships/research-scholarships/international-postgraduate-research-scholarship-iprs). To rank highly in these scholarships, students will need to have completed a Masters by Research (or international equivalent), first class Honours (domestic students) and at least one publication or extensive research experience. The next rounds for the USC International Postgraduate Research Award (IPRA) and Australian Postgraduate Award (APA) scholarships are now open and will close on 30 September 2016.

Please email Dr Frere (cfrere@usc.edu.au) and Dr Cristescu (rcristes@usc.edu.au) for more information or apply directly by emailing a single PDF containing (1) a statement of interest, (2) a CV, (3) academic transcript and (4) contact information for two referees as soon as possible. Please indicate "Koala PhD" in your subject line. Applications will be accepted until the position is filled.

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. This email is confidential. If received in error, please delete it from your system.

Romane Cristescu <rcristes@usc.edu.au>

Vienna CichlidMating

We are searching for highly motivated students who would like to join our current project on mating systems and parental care behavior of two closely related cichlid species Neolamprologus caudopunctatus and Neolamprologus pulcher.

Master theses could address several different questions:

- Female preference for male partners that invest more in nest defense

- Parental care, egg cannibalism and hormones

- Intra- and interspecific competition for breeding sites

- Social assays with both species

We are looking forward to hosting master students with a keen interest in scientific questions and behavioral fish biology and are able to work independently as well as within a team. A Bachelor's degree preferably in Behavioral Ecology/Ethology or a related discipline is needed. Experience with fish is beneficial but not required. The project should be started ASAP (ideally October/November 2016). No funding is available, but we will provide support and assist the candidate if he or she wishes to apply for a grant.

Our daily communication is mainly in English.

The Konrad Lorenz Institute of Ethology (https://-www.vetmeduni.ac.at/klivv/) is part of the University of Veterinary Medicine Vienna/Austria. Vienna is the capital city of Austria and a continuous front-runner in life quality rankings.

To apply (in English or German), please send a letter of motivation, providing a short overview of your interests and experience, and your CV to: Franziska.schaedelin@vetmeduni.ac.at

or filipa.cunha-saraiva@vetmeduni.ac.at If you are interested or have any further questions please don't hesitate to contact us.

Lemmel-Schädelin Franziska <Franziska.Schaedelin@vetmeduni.ac.at>

WestVirginiaU PlantEvol Phylogenomics

The Barrett Lab in the Department of Biology at West Virginia University is seeking highly motivated Ph.D. or M.S. students for admission in 2017. Our lab focuses on using genomic approaches to study systematics and evolution of plants, as well as plant-microbial interactions.

Students with skills in field biology, genetic/genomic lab techniques, phylogenetic analysis, and/or bioinformatics are strongly encouraged to apply. Experience with computer scripting languages useful in bioinformatics (e.g., Python, Perl, R, or UNIX) is preferable.

Potential research projects are flexible, and interested students are welcome to propose unique projects. Some past and current research foci in the Barrett Lab include, but are not limited to:

* Evolutionary biology of *parasitic (mycoheterotrophic) orchids*: genome evolution; gene expression; physiology; ecology; host interactions; systematics. * Phylogenomic, comparative approaches to resolving relationships among *monocot angiosperms* (grasses, palms, gingers, orchids, and relatives), including diversification, trait evolution, and evolutionary rate variation. * Population genetics & genomics of monocots at or near the species level: *integrative species delimitation* using genomic, morphological, developmental, ecological, and phenological data. * *Conservation genomics* of rare or threatened plants: analyses of local adaptation; ecological genetics & gene expression; genotypic, phenotypic, & environmental correlations; responses to climate change. * Novel approaches to phylogenetic analysis and genome evolution.

Dr. Barrett's Google Scholar profile: https:/-/scholar.google.com/citations?hl=en&user=-zm0PEwYAAAAJ&view_op=list_works&sortby=-pubdate Campus resources include: WVU Genomics Core Facility, housed in the Department: http://genomics.as.wvu.edu/ High Performance Computing: http://it.wvu.edu/research/research-computing/high-performance-computing Fernow Experimental Forest: http://www.nrs.fs.fed.us/ef/-locations/wv/fernow/ WVU Earl Core Arboretum: http://arboretum.wvu.edu/ WVU Herbarium: http:/-/www.biology.wvu.edu/facilities/herbarium Ecotron and greenhouses: http://biology.wvu.edu/about/-facilities/ecotron-and-greenhouses *West Virginia University* is a large, diverse university with R1 status. The *Department of Biology* has core research strengths including plant & microbial genomics, ecology, neuroscience, and several other areas. *Morgantown* is a vibrant, diverse college town/small city, situated in the foothills of the Allegheny Mountains. *Morgantown* is ~1.5 hours from Pittsburgh, PA, and ~3 hours from Columbus, OH and Washington, D.C.

Outdoor activities abound in and around Morgantown, and throughout WV and neighboring MD, PA, and VA. Fishing, boating (rafting, kayaking), hiking, skiing, biking, etc., are within a short drive of the city limits.

Some useful links: WVU Biology website: http://-biology.wvu.edu/ Graduate admissions in Biology: http://biology.wvu.edu/students/graduate-students/-admission WVU Graduate Education: http://-graduate.wvu.edu/future-students/application-process/-apply For further information about opportunities in the Barrett Lab, please contact me (Craig Barrett, cfb0001@mail.wvu.edu); for questions about out graduate program, please contact or our graduate chair, Kevin Daly (KCDaly@mail.wvu.edu).

WVU, the Department of Biology, and the Barrett Lab are committed to diversity: women, members of minorities, students with disabilities, and veterans are strongly encouraged to apply. For more on diversity at WVU, please visit: http://diversity.wvu.edu/ "craig.barrett@mail.wvu.edu" <craig.barrett@mail.wvu.edu>

Jobs

AustralianNatlU OzMammalsGenome

Oz Mammals Genome Project Coordinator The Australian National University

Classification: ANU Officer Grade 4/5 (Technical) Salary Package: $60,260 - $73,309 per annum plus 17% superannuation Work Type: Fixed Term (2 years) Closes: 11th September 2016

Position overview

We seek a highly organised and skilled Research Officer to coordinate a large collaborative project - the "Oz Mammals Genome" initiative. This project will generate new genomic data to advance knowledge of marsupial genome variation and relationships and to support conservation of our many imperilled mammals.

The ANU College of Medicine, Biology and Environment (CMBE) brings together medical, biological, population health, psychological and environmental sciences in six schools: The ANY Medical School, The Fenner School of Environment and Society, The John Curtin School of Medical Research, the Research School of Biology, the Research School of Population Health, and the Research School of Psychology. Together the schools integrate high level research with a research-led curriculum that encompasses all of these different areas.

Bioplatforms Australia in collaboration with several universities and all major Australian museums is supporting a large scale genome sequencing project on Australian mammals over the coming two years. This position will primarily be working at the Biomolecular Resource Facility (BRF), The John Curtin School of Medical Research, which is a service node for the genomics arm of Bioplatforms Australia and will closely work with staff and students in the ANU-CSIRO Ecogenomics and Bioinformatics Laboratories located in the Research School of Biology.

The role requires extensive organisation and experience in sample management, coordinating the acquisition of samples from museums and conservation agencies, recording associated metadata and data distribution. They will also require experience in molecular biology

and be responsible for DNA isolation and next-gen library preparation from tissues and preserved museum specimens.

If you have experience in collaborating with biologists, skills in molecular biology including work with degraded DNA or library construction for Next Generation DNA Sequencing including targeted enrichment methodologies and an interest in complex equipment and high interpersonal skills we would welcome an application from you.

The University actively encourages applications from Aboriginal and Torres Strait Islander people. For more information on employment opportunities, contact our Indigenous Employment Consultant on indigenous.employment@anu.edu.au

ANU values diversity and inclusion and believes employment opportunities must not be limited by social-economic background, race, religion or gender. For more information about staff equity at ANU, visit http://-hr.anu.edu.au/staff-equity Enquiries for the position can be made to:

Stephanie Palmer, Manager of the Biomolecular Resource Facility T: 02 6125 9637 E: stephanie.palmer@anu.edu.au

Or

Craig Moritz, Oz Mammals Genome Project Coordinator T: 02 6125 5651 E: craig.moritz@anu.edu.au

Application information

In order to apply for this role, please submit your application at jobs.anu.edu.au/cw/en/job/511009/genomics-technician

Make sure that you upload the following documents:

A statement addressing the selection criteria.

A current curriculum vitae (CV) which includes the names and contact details of at least three referees (preferably including a current or previous supervisor). If your CV does not include referees you can complete these online when prompted in the application form.

Other documents, if required.

Applications which do not address the selection criteria may not be considered for the position.

Please note: Applications for this position will only be accepted from those with Australian residency or a valid work permit.

Stephanie Palmer <stephanie.palmer@anu.edu.au>

BangorU Genomics

Lecturer in Molecular Ecology and Genomics

Job Number: BU01253

School of Biological Sciences https://-www.bangor.ac.uk/biology/ Grade 7 or 8 Grade 7: 31,656 - 37,768 p.a. or Grade 8: 38,896 - 46,414 p.a. Contract Duration: Permanent Closing Date: 30-09-2016

We invite applications to this permanent full time appointment in the School of Biological Sciences. The successful candidate will be expected to make a significant contribution to molecular ecology and genomics research in the School and College, and to develop a research programme in their specialist area that will attract external funding and international recognition. They will also contribute to the teaching of Biology and related subjects at undergraduate and postgraduate levels.

The successful candidate will be educated to PhD standard or equivalent and have previous experience across a broad range of sub-disciplines within biological science. To match our vision for the development of biology in the school we would particularly welcome candidates to carry out research in the area of molecular ecology and genomics. The applicant would be expected to contribute to teaching, e.g. in molecular ecology and genomics/bioinformatics, or in forensic biology, incorporating quantitative and statistical approaches from the cellular to community level.

The post holder will be expected to make a strong contribution to our existing ethos of inter-disciplinarity and team work in research and teaching, enhancing and complementing our existing areas of expertise.

The appointment will be made in the range of Lecturer 1 31,656 - 37,768 (Grade 7) or Lecturer 2 38,896 - 46,414 (Grade 8) per annum, depending on previous experience.

Informal enquiries can be made by contacting Prof G Carvalho (tel: +44 (0) 1248 382100, e-mail: g.r.carvalho@bangor.ac.uk, or Dr. S Creer (tel: +44 (0) 1248 382302), email: s.creer@bangor.ac.uk from the 1st September onwards. Please include the above job reference number BU01253 in your header title for email enquiries.

Interviews will be scheduled for the second half of Octo-

ber, or early November 2016.

Rhif Elusen Gofrestredig 1141565 - Registered Charity No. 1141565

John Mulley <j.mulley@bangor.ac.uk>

BangorU Lectureship EvolutionaryBiology

Lecturer in Biology Bangor University - School of Biological Sciences (https://www.bangor.ac.uk/biology/)

Salary: 31,656 to 46,414 Grade 7/8 p.a.

Hours: Full Time

Contract Type: Permanent

Closes: 9th September 2016

Job Ref: BU01252

We invite applications to this permanent full time appointment in the School of Biological Sciences. The successful candidate will be expected to make a significant contribution to biological research in the School and College, and to develop a research programme in their specialist area that will attract external funding and international recognition. They will also contribute to the teaching of biology and related subjects at undergraduate and postgraduate levels.

The successful candidate will be educated to PhD standard or equivalent and have previous experience across a broad range of sub-disciplines within Biological Sciences. To match our vision for the development of biology in the school we would particularly welcome candidates to carry out research to complement our existing areas of expertise (Animal Physiology; Behaviour and Conservation; Wetlands, Biogeochemistry and Plant Science; Microbiology, Parasitology and Biotechnology). From a teaching perspective, applicants should be prepared to contribute to areas that could include: physiology, immunology, biochemistry, human/primate biology, biotechnology, systems biology, quantitative biology, bio veterinary science or forensic biology.

In addition, the post holder will be expected to make a strong contribution to our existing ethos of interdisciplinarily and team work in research and teaching, enhancing and complementing our existing area of expertise.

The appointment will be made in the range of Lecturer 1 31,656 - 37,768 (Grade 7) or Lecturer 2 38,896 - 46,414 (Grade 8) per annum, depending on previous experience.

Informal enquiries can be made by contacting Prof Chris Freeman (tel: +44 (0) 1248 382353, e-mail: c.freeman@bangor.ac.uk

Applications will only be accepted via our on-line recruitment website, www.jobs.bangor.ac.uk. However, in cases of access issues due to disability, paper application forms are available by telephoning 01248 383865.

Interviews will be scheduled shortly after 21st September 2016.

Rhif Elusen Gofrestredig 1141565 - Registered Charity No. 1141565

John Mulley <j.mulley@bangor.ac.uk>

ColbyC Maine Genomics

Colby College in Waterville Maine is seeking a biologist with expertise in Genomics to fill a tenure-track position as Assistant Professor of Biology to begin September 1, 2017. A strong background in analysis of genomic or transcriptomic data, a PhD before the starting date, and a commitment to undergraduate education are expected; postdoctoral experience is desirable. Teaching involves the equivalent of five courses per year (four in the first year), with laboratories constituting a portion of that load. The successful candidate will teach a 200-level course with laboratory in genomics; other courses will include an upper level course in the candidate's area of specialty and a course at the 100-level in some years. An active research program, including supervision of undergraduate research, will be expected. An attractive startup package is available. This position is part of a new interdisciplinary program in Computational Biology, with coordinated searches in the departments of Computer Science and Mathematics and Statistics, and the launch of a new major in Computational Biology. Additional local possibilities for collaboration and co-mentoring of students include scientists at The Jackson Laboratory or the Bigelow Laboratory for Ocean Sciences.

To apply, submit a letter of application, statement of teaching and research interests, curriculum vitae, undergraduate and graduate transcripts, and three letters of recommendation to apply.interfolio.com/36931

Application review will begin October 13, 2016 and will

continue until the position is filled.

Questions about this position should be directed to: biologysearch@colby.edu <mlburns@colby.edu>

Colby is a private, coeducational liberal arts college that admits students and makes employment decisions on the basis of the individual's qualifications to contribute to Colby's educational objectives and institutional needs. Colby College does not discriminate on the basis of race, color, gender, sexual orientation, gender identity or expression, disability, religion, ancestry or national origin, age, marital status, genetic information, or veteran's status in employment or in our educational programs. Colby is an Equal Opportunity employer, committed to excellence through diversity, and encourages applications from qualified persons of color, women, persons with disabilities, military veterans and members of other under-represented groups. For more information about the College, please visit our website: www.colby.edu
"jstone@colby.edu" <jstone@colby.edu>

CornellU FishEvolutionaryDynamics 2

Assistant or Associate Professor of Fisheries and Aquatic Sciences

STARTING DATE: August 1, 2017

LOCATION: Department of Natural Resources College of Agriculture and Life Sciences Cornell University Ithaca, NY 14853

RESPONSIBILITIES: The successful candidate will develop an internationally-recognized research program focused on the ecological and/or evolutionary dynamics that influence the conservation and management of freshwater fish populations, including but not limited to Adirondack systems. The appointment is 50% research of which a principal component should build upon the 60-year legacy of research associated with the Adirondack Fishery Research Program by working within the program to address the consequences that changing environmental conditions have on the ecology and management of fishes and fisheries. The ideal candidate should be able to work across spatial and temporal scales and/or across levels of biological organization from physiology to ecosystems. In keeping with departmental research philosophy, the candidate is expected to actively engage stakeholders, resource managers and other decision-makers. The individual is further expected to secure external funding and contribute to the scholarly literature through journal articles and other peer-reviewed publications. Teaching responsibilities (50% of appointment) will include two courses offered each academic year and a graduate seminar offered at least once annually. Possible undergraduate courses include core environmental science courses in the Environmental and Sustainability Sciences major. The successful candidate will advise undergraduate and graduate students and supervise undergraduate and graduate research.

Service to society through consultation and other outreach activities is expected of all faculty members in addition to collegiality and service at the departmental, college and university levels. The position is a full-time, tenure-track, academic-year (9-month) appointment. It is anticipated that the successful candidate will be appointed director of the Adirondack Fishery Research Program at a future date.

QUALIFICATIONS: Ph.D. in fisheries science, aquatic ecology or an affiliated discipline Experience in teaching, student advising, and research related to this position, either postdoctoral or pre-doctoral. Evidence of ability to work with other researchers and stakeholders in collaborative inquiry. Demonstrated interest in working on topics related to contemporary challenges in aquatic conservation and management, and in working cooperatively with conservation/management agencies in applying results of scholarly research. Evidence of ability to attract extramural research support and coordinate and lead an innovative research program.

SALARY: Competitive, commensurate with background and experience within the Assistant or Associate Professor rank at Cornell. Cornell faculty receive an attractive fringe benefits package.

APPLICATIONS: Electronic application must be submitted through Academic Jobs Online: https://-academicjobsonline.org/ajo/jobs/7455. Applications should include a letter of application, current curriculum vitae, statement of teaching and advising philosophy, statement of research interests and accomplishments, names (including mailing and email addresses, and phone numbers) of three references and three relevant publications.

Review of applications will begin on September 15, 2016.

Additional inquiries should be directed to Dr. Matt Hare, Fisheries and Aquatic Sciences Search Committee Chair, 205 Fernow Hall, Cornell University, Ithaca, NY 14853, Tel (607) 255-5685, FAX (607) 255-0349, email: mph75@cornell.edu.

Diversity and Inclusion have been and continue to be a

part of our heritage. Cornell University is a recognized employer and educator valuing AA/EEO, Protected Veterans and Individuals with Disabilities. The University seeks to meet the needs of dual career couples and has a Dual Career program to assist with dual career searches.

Matthew Hare Associate Professor 205 Fernow Hall Department of Natural Resources Cornell University Ithaca, NY 14853 607-255-5685 http://www2.dnr.cornell.edu/HareLab/harelab.html "mph75@cornell.edu" <mph75@cornell.edu>

Dartmouth MicrobialEvolution

Any microbial ecology is study likely to involve evolutionary analyses of microbial genomes and to use tools of systematics, -omics, bioinformatics, phylogenetics, etc. - fields of interest of the EvolDir audience. Therefore, I feel that EvolDir readers will be interested in this.

Faculty Position in Microbial Ecology Department of Biological Sciences Dartmouth College Hanover, NH USA

The Department of Biological Sciences at Dartmouth College seeks applicants for an Assistant Professor position in Microbial Ecology. We seek highly qualified candidates who investigate important questions relating to the ecology of microbes and their interactions with other organisms. Candidates must have a Ph.D. or equivalent degree. We seek a colleague who will supervise an independent, extramurally funded research program; provide research training for graduate and undergraduate students; teach introductory ecology and other courses at the undergraduate and graduate levels; and contribute to Dartmouth's recently expanded cross-departmental graduate program in Ecology, Evolution, Ecosystems and Society. Dartmouth also offers many other relevant opportunities for research and graduate training, including the Molecular and Cellular Biology Graduate Program and the Microbiology & Molecular Pathogenesis Program. Application materials should include a cover letter, curriculum vitae, three representative publications, statements of research and teaching interests, and contact information for three references. Please submit materials electronically to: http://apply.interfolio.com/36648 Application review will begin on 15 September 2016 and continue until the position is filled. For further information about the department and graduate programs, see http://biology.dartmouth.edu Dartmouth College is an equal opportunity/affirmative action employer with a strong commitment to diversity and inclusion. We prohibit discrimination on the basis of race, color, religion, sex, age, national origin, sexual orientation, gender identity or expression, disability, veteran status, marital status, or any other legally protected status. Applications by members of all underrepresented groups are encouraged.

Contact person for additional inquiries: Dr. Mark McPeek, mark.mcpeek@dartmouth.edu

Olga Zhaxybayeva, Ph.D. The Simons Foundation Investigator and Assistant Professor Department of Biological Sciences Dartmouth College 333 LSC 78 College Street Hanover, NH 03755 USA

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

FortLewisC Colorado EvolutionaryBiol

ASSISTANT PROFESSOR OF BIOLOGY Department of Biology Fort Lewis College Durango, Colorado

About the Position:

The Fort Lewis College Department of Biology invites applications for a tenure-track faculty position in Biology at the Assistant Professor level starting in Fall 2017 with a starting salary of $51,500 plus full benefits package.

The College's liberal arts mission emphasizes excellence in undergraduate teaching with members of the Biology Department contributing to a thriving learning community. Responsibilities include teaching an introductory course in Genetics (BIO 260), Introduction to Cellular and Molecular Biology (BIO 113), as well as other courses within the major, maintaining an active research program, mentoring undergraduate students, supervising undergraduate research projects, and performing service related activities for the department and the college. Teaching load is 24 credits per year of which three may be authorized for research release.

Required Qualifications:

* Earned doctorate in cellular and molecular biology, molecular genetics, or closely related field. * Proven

interest and commitment to undergraduate teaching. * Post-doctoral research experience in molecular genetics or equivalent post-graduate experience in related field.

Desirable Qualifications:

* Experience mentoring undergraduate research and ability to secure extramural funding. * Demonstrated knowledge of modern techniques in teaching undergraduate biology. * Ability to develop and teach a course in developmental biology. * Experience teaching a diverse student population in backgrounds and academic abilities.

About the College:

Fort Lewis College is Colorado's public liberal arts college, offering baccalaureate degree programs in the arts, humanities, social sciences and natural sciences as well as professional programs in applied sciences, teacher education, and business administration. The college has a diverse student body with an enrollment of about 3,700 of which 24% are Native American and 11% Hispanic.

Fort Lewis College is a member of The Council of Public Liberal Arts Colleges. Located at the intersection of the Rocky Mountains and the desert Southwest, the College embraces cultural diversity.

Research and professional engagement are expected, but our top priority is commitment to undergraduate teaching.

About the Area:

Durango, a multicultural community, is the hub of Southwest Colorado, located in a beautiful mountain valley with nearby peaks approaching 14,000 feet. A mild four-season climate allows numerous recreational opportunities and Durango is a popular tourist destination with an area population of about 45,000. Durango is served by major airlines with direct connections to Denver, Phoenix, and Dallas/Fort Worth.

Application Process:

Please e-mail the following materials as a single PDF file to Barb Rosten, ROSTEN_B@fortlewis.edu.

1. Curriculum vitae 2. Cover letter that specifically addresses your qualifications and interest for this position. Failure to address specifics for this position (i.e., generic letter) will be regarded as an incomplete file. 3. Three letters of recommendation (may be e-mailed separately as a PDF file). 4. Graduate transcripts (unofficial copies are acceptable at this time; official undergraduate and graduate transcripts will be required for employment). 5. Statement of undergraduate teaching philosophy. 6. Statement of professional and research interests.

Applications received by September 23, 2016 will be given full consideration. The positions will remain open until filled.

Fort Lewis College does not discriminate on the basis of race, age, color, religion, national origin, gender, disability, sexual orientation, gender identity, gender expression, political beliefs, or veteran status. Accordingly, equal opportunity for employment, admission, and education shall be extended to all persons. The College shall promote equal opportunity, equal treatment, and affirmative action efforts to increase the diversity of students, faculty, and staff.

sdfenster@fortlewis.edu

GeorgeWashingtonU DrosophilaTechnician

Research Technician working on Drosophila sperm evolution, genetics, and development

A Research Technician position is available for one year in the lab of Mollie Manier (http://-manierlab.com) 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 primary goals of the position will be to examine elongation rates of spermatogenic cysts using in vitro cell culture and to acquire and analyze genomic and transcriptomic data for inbred lines.

The technician will generally provide technical support for research on the molecular and evolutionary genetics and developmental biology of sperm length in Drosophila. Responsibilities of the position include, but are not limited to, ordering materials and supplies; preparing media, reagents and materials; maintaining laboratory Drosophila stocks and other lab organisms; managing undergraduate work study students and researchers; assisting the PI and postdoc in designing and executing experiments; and R&D of protocols.

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 testis dissection, Drosophila RNAi knockdown, tissue culture, fluorescence microscopy, and data management and analysis. The position requires neatness, attention

to detail, self-motivation, initiative, 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 a BA/BS in biology or related field, with specialization in molecular and cell biology, genetics/genomics, evo-devo and/or evolutionary biology prioritized. Previous research experience and/or a graduate degree will also be prioritized. The position is available immediately, and funding is available for one year. Starting salary is negotiable, commensurate upon experience.

To apply, e-mail Dr. Mollie Manier at maniermk@gmail.com 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 (if applicable) institution, and (3) contact information for 2 references. Application deadline is August 12.

Dr. Mollie K. Manier Assistant Professor The George Washington University Dept. of Biological Sciences Office: SEH 6680 800 22nd St. NW, Suite 6000 Washington, D.C. 20052 USA (202) 994-0126 http://manierlab.com @maniermk

Mollie Manier <manier@gwu.edu>

GeorgiaCollege Ornithology

Department of Biological and Environmental Sciences, Georgia College & State University.

Assistant Professor, Ornithology

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.

Knowledge/Skills and Abilities: -—Ability to teach Ornithology, Field Ornithology, introductory biology and upper division courses in area of specialization. -—The ability to teach Comparative Vertebrate Anatomy is a plus. -—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 hire date 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: -—At least two years of experience teaching undergraduate courses preferred. -—The ability to teach Comparative Vertebrate Anatomy. -—The department 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 September 15, 2016, and continue until the position is filled. Position start date is January 2, 2017, although an August 1, 2017 start is negotiable. —

"gretchen.ionta@gcsu.edu" <gretchen.ionta@gcsu.edu>

KewGardens UK ResAssist Phylogenomics

Phylogenomics Research Assistant

Kew is a global resource for plant and fungal knowledge. We are seeking talented, creative individuals with outstanding track records to help us build the Plant and Fungal Trees of Life, a major piece of global science infrastructure that is central to RBG Kews Science Strategy 2015-2020. This is a unique opportunity to be part of a team addressing a critical challenge in the life sciences. Are you up to the task? If so, read on to find out more.

You will contribute directly to the one of the most ambi-

tious outputs of RBG Kews Science Strategy, the Plant and Fungal Trees of Life (PAFTOL) project, which aims to reconstruct complete genus-level phylogenies of plants and fungi. As a team member of the PAFTOL project, you will be involved in the development and implementation of a variety of cutting-edge techniques including the next-generation sequencing pipeline that will be used for PAFTOL.

The project

There are few grander challenges in science than the tree of life - uncovering the complete evolutionary history linking all life on Earth. As part of RBG Kews Science Strategy 2015-2020, we are initiating a five-year multimillion-pound project, the Plant and Fungal Trees of Life (or PAFTOL, for short), to complete the tree of life for all genera of plants and fungi, drawing on our outstanding collections, our broad collaborative networks and the latest high-throughput sequencing technologies.

This ambitious project will create a unifying framework for comparative plant and fungal research and takes us a step closer to building the tree of life for all known species. We will generate high impact findings publishable in top science journals, but we want the results to reach beyond the science community. To achieve this we will build innovative big-data and visualization tools accessible to a scientist or a school child. This is a truly exciting time to join Kew and become an integral part of a high-profile, cutting edge global endeavour.

The team

You will join a team of specialists with a wide range of skills, which forms part of Kews Department of Comparative Plant and Fungal Biology in the Science Directorate. You will report to the PAFTOL Senior Researcher and coordinator and work in collaboration with the team in charge of the Molecular Biology laboratory. Your tasks will include sourcing and preparing samples, conducting molecular biology lab work (e.g. DNA extraction, DNA quality control, library preparation for DNA sequencing), operation and maintenance of equipment, applying appropriate health and safety procedures, and working closely with other staff or volunteers. It will also include training staff, students and visitors in specialist techniques, when required.

The Role

You will have a BSc degree-level or equivalent in an appropriate subject and knowledge of current research in plant and/or fungal molecular systematics. You will have skills in relevant laboratory techniques including DNA extraction, PCR, DNA sequencing, high-throughput sequencing technologies, and relevant computer programs. You will possess training skills and experience of writing and presenting scientific data. You will be a team player who can manage conflicting priorities and work on your own initiative.

Applications

To apply, please complete the online application form and also upload your CV, a motivation letter, and any other relevant information such as a full list of publications, and details of any grants awarded, if any.

https://careers.kew.org/internal/vacancy/-phylogenomics-research-assistant-273693.html Interviews will be conducted on the 20 of September 2016

We would like the successful applicant to start as soon as possible after the 1st of October 2016

The Royal Botanic Gardens, Kew is a non-departmental public body with exempt charitable status, whose principal place of business is at Royal Botanic Gardens, Kew, Richmond, Surrey TW9 3AE, United Kingdom.

Olivier Maurin <O.Maurin@kew.org>

LPF Tenerife DirectorConvservation

JOB ANNOUNCEMENT

Director of the Loro Parque Fundación

The organisation

The Loro Parque Fundación (LPF) is a private foundation, created in 1994 and legally registered in Spain as a charitable-status entity. It is a conservation NGO, and member of the International Union for the Conservation of Nature - IUCN. Its HQ is located at Loro Parque in Tenerife, Canary Islands, Spain. Although it has no national or regional branches, it operates at international level and is represented in many countries through its project partnerships with organisations in those countries.

Its recent average annual spend directly on projects, of which there are 36 active in 2016, is US$1 million. It is the owner of, and manages the world's largest, most diverse collection of Psittaciformes. The collection is a genetic reserve and resource for research and exhibition for education, as well as generating part of the income of the LPF. The private company Loro Parque is its principal sponsor, covering all operating costs so that 100% of all other donations go directly to the projects.

The larger proportion of projects is for the conservation

of threatened species of parrots, each project including to a lesser or greater extent the direct protection of the target species, the protection and restoration of habitat, and the cooperation with and integration of the local community into the conservation effort. The LPF has increasing involvement in projects related to the conservation of the marine environment, in particular with whales and dolphins. More recently, the LPF is involved in the conservation of large terrestrial mammals in central southern Africa.

The LPF has a Board of Trustees (President, Secretary and Vocals) which has ultimate responsibility for its governance. An international advisory board meets annually with the trustees and principal staff to review progress and make recommendations about project support. There are also honorary vice-presidents.

More information at:

www.loroparque-fundacion.org Major duties and responsibilities of the Director

The Director is responsible for the institutional development of the organisation, and the promotion of a clear identity and profile of the LPF, with the objectives to highlight its scientific and conservation strengths, and to obtain external support for its activities. Duties include managing the LPF project portfolio, with particular emphasis on the terrestrial projects, and to provide suitable content for external communication of projects and activities. The Director will represent the LPF in the wider conservation arena, and is expected to maintain productive relations with other entities involved in conservation. The Director reports directly to the LPF President.

Requirements

Applicants will have a higher degree in a relevant subject, and will already have several years of experience in conservation management, including experience in the field as well as in an administrative capacity. Experience of project management from proposal to outcome will be essential, in particular the ability to discern valid goals and appropriate costs, and evaluate budgets correspondingly. Existing knowledge of bird conservation, especially of parrots, is important. Applicants will need a clear understanding of the positive interface between ex situ and in situ conservation. Good communication and interpersonal skills are indispensable especially to acquire resources for the LPF, and therefore applicants will demonstrate a trackrecord in fund-raising. Leadership skills, the ability to plan and prioritize, as well as to work independently and meet deadlines, will be necessary. Fluency in English is required. Existing fluency in Spanish is preferred, or rapid achievement of proficiency will be essential. German will also be advantageous.

Salary and starting date

The remuneration package will be commensurate with qualifications and experience. The expected commencement date will be 1st September 2016

A CV and covering letter

(addressed to: The President, Loro Parque Fundación, Av. Loro Parque s/n, 38400 Puerto de la Cruz,Tenerife, Spain) should be emailed at the earliest convenience to: lpf@loroparque-fundacion.org

“Bayern, Auguste von” <avbayern@orn.mpg.de>

LundU 2 EvolutionaryBiol

Two lectureships at the Department of Biology (Lund University, Sweden)

Application deadline: September 22, 2016

Contact : * Professor Christer Lofstedt, Head of department, +46462229338, christer.lofstedt@biol.lu.se * Recruitment Officer Helen Johansson, +46462223609, helen.johansson@science.lu.se

Senior University Lecturer in Biology: https://-lu.mynetworkglobal.com/en/what:job/jobID:99885/-where:4/ Senior University Lecturer in Biology The Department of Biology was created on 1 January 2010 by a merger of the Departments of Ecology, Cell and Organismic Biology, the Department of Undergraduate Education, and the Biology Museums. At the same time the new Biology centre on Campus North was ready, which meant that all research in biol Las mer ...

Associate Senior University Lecturer in Biology: https://lu.mynetworkglobal.com/en/what:job/-jobID:99887/where:4/ Associate Senior University Lecturer in Biology The Department of Biology was created on 1 January 2010 by a merger of the Departments of Ecology, Cell and Organismic Biology, the Department of Undergraduate Education, and the Biology Museums. At the same time the new Biology centre on Campus North was ready, which meant that all research in biol Las mer ...

Erik Svensson <erik.svensson@biol.lu.se>

MasseyU Auckland EvolutionaryBiol

ASSOCIATE/FULL PROFESSOR IN MOLECULAR BIOSCIENCES

MASSEY UNIVERISTY, AUCKLAND, NZ

DEADLINE SEPT 1 2016

We seek to appoint an Associate Professor/Professor in Molecular Biosciences to join the growing biology faculty on the Auckland campus. The position is based in the multi-disciplinary Institute of Natural and Mathematics Sciences (INMS) at Massey University in Auckland, New Zealand.

In this role, you will establish your own research laboratory and undertake research of an international calibre. You will enhance the learning and qualification outcomes of Massey's students and the reputation of the University by undertaking an effective programme of teaching and supervising the research activities of postgraduate students and postdoctoral fellows. You will be expected to attract substantial external funding and provide administrative and professional service to the University and broader academic or professional communities, as well as establish and build collaborations with researchers from other disciplines within INMS, throughout New Zealand and internationally.

Your research programme will complement and enhance the existing molecular biosciences research capabilities within INMS, which currently has strengths in evolution, molecular microbiology, genomics, and computational biology. The preferred candidate will be a molecular biologist with strengths in one or more of the following subject areas: evolution, genetics, genomics, computational biology, quantitative biology, and biochemistry. For more information on Molecular Biology research at Massey, see http://www.massey.ac.nz/?mc7775414h Auckland, NZ is consistently rated as one of the most liveable cities in the world. With over 70 majors on offer, the Massey University Auckland campus is a thriving research and learning hub, and faculty and student numbers are set to increase considerably in the next few years.

The level of appointment and salary will be commensurate with experience.

To apply please visit http://massey-careers.massey.ac.nz/9448/associate-professor-professor-molecular-biosciences Olin Silander <olinsilander@gmail.com>

MaxPlanckInst Seewiesen BlueTitFieldAssist

JOB ANNOUNCEMENT

The Department of Behavioural Ecology and Evolutionary Genetics at the Max Planck Institute for Ornithology in Seewiesen, Bayern, Germany (see http://www.orn.mpg.de/2622/Department_Kempenaers), is seeking four field assistants to work from 1st November 2016 to 30th April 2017.

These assistants will work as part of a long-term study on the reproductive biology of a blue tit /Cyanistes caeruleus/ population in a protected forest site in Southern Germany.

Work will include:

(1) catching birds at feeders and nest-boxes using traps and/or mist nets (2) measuring and banding birds (3) maintenance of electronic nest-box and feeder hardware and equipment (4) setting up experimental equipment (5) data collection, entry, and management

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

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

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

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

In an effort to employ more people with disabilities, the Max-Planck-Society specifically encourages people with disabilities to apply for the position. To increase the employment of women in areas where they are underrepresented, the Max-Planck-Society also encourages women to apply for this position.

Review of applications and calls for interviews will begin in late September 2016. If you are interested in applying for one of the field assistant positions as described above, please apply (including your CV) via email to cgilsenan@orn.mpg.de

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

– Carol Gilsenan PhD student

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

Tel.: +49 (0) 8157 932 - 320

Carol Gilsenan <cgilsenan@orn.mpg.de>

Montpellier BioinformaticsSeascapeGenomics

Bioinformatician position available at *CEFE **(Centre for Functional and Evolutionary Ecology) in Montpellier (France) *Hours: Full Time Contract Type: 3 years Starting data: January 2017

Position description

A position in Bioinformatics is open to work on the European project RESERVEBENEFIT funded by the French National Research Agency (BIODIVERSA, 2017-2019) at the CEFE (Centre for Functional and Evolutionary Ecology) in Montpellier (France).

The project RESERVEBENEFIT aims to assess the capacity of a network of marine protected areas to deliver marine resources for artisanal fisheries and maintain genetic diversity. The project is based on four fish species and genomic data (draft genomes, SNP) to improve our knowledge in the field of seascape genomics.

The position will include:

- Assisting in planning and organization of the project;

- Creation and maintenance of the genetic database;

- De novo genome assembly and call of individual genotypes;

- Population genetic analysis;

- Active participation in the design and implementation of analyses and pipelines of similar projects;

Requirements

Degrees: master or PhD level.

The successful applicant will have at least a master degree in bioinformatics or life sciences with experience in computing applied to biology. Applicants must be familiar with linux and shell scripting, with experience in at least one major programming language.

Experience in the analysis of Next Generation Sequencing (NGS) datasets is required: genome assembly, SNP call, or genome wide association studies. Clear vision and understanding of the advances in the field are essential.

Environment and facilities __

The CEFE is the largest French institute for ecology and evolution.**It hosts platforms with equipment in informatics and computational facilities. More information on the CEFE are available online: http://-www.cefe.cnrs.fr/fr/ .Montpellier is a medium-size lively student city in____the south of France, close to the Mediterranean Sea and to the Cevennes (medium mountain with lots of hiking, climbing)

*Deadline for application***

The latest date for receiving applications is October 15th 2016, but screening may continue if a suitable candidate has not been found by that deadline.

Starting date: The ideal starting date is January 1st 2017.

*How to apply *Send the following documents by email as a single pdf file to**Pr Stéphanie Manel (Stephanie.manel@cefe.cnrs.fr <mailto:Stephanie.manel@cefe.cnrs.fr>): 1) a letter of application detailing main qualifications (no more than 2 pages); 2) a curriculum vitae (maximum 2 pages),3) names and contact information of at least two previous employers.

Do not hesitate to contact me for further details or questions.

Stephanie.MANEL@cefe.cnrs.fr

NorthCarolinaStateU PlantEvolution

PLANT EVOLUTIONARY ECOLOGIST

The Department of Plant and Microbial Biology at North Carolina State University invites applications for an Assistant Professor position in the area of Plant Evolutionary Ecology. This position is a 9-month, tenure-track position with responsibilities divided between teaching and research. We seek an individual who uses innovative approaches to understand the origins and maintenance of biological diversity of plants in the context of current critical challenges. Areas of emphasis may include evolutionary genetics/genomics of adaptive traits, adaptation in response to stress and environmental change, plant coevolution with insects, animals, or microbes, and plant conservation within an evolutionary context. The study systems can be in natural or human-dominated environments. Priority will be given to candidates who address these questions with a multi-disciplinary approach that combines laboratory, field, and bioinformatic tools. The successful candidate will be expected to develop a productive, extramurally funded research program that enhances and complements existing programs in the department and college.

Initial teaching expectation will be 1-2 courses per year. Courses will depend on the individual's areas of expertise, but may include graduate and undergraduate courses in Plant Evolutionary Ecology, Ecological/Evolutionary Genomics, Plant Conservation Biology, Ecological and Genetic Mechanisms of Evolutionary Adaptation, or Methods in Ecological Research. Candidates will be expected to mentor graduate and undergraduate students in research.

Candidates must have a PhD degree in plant biology or related discipline, with expertise in plant evolutionary biology and a record of peer-reviewed publications and scholarly accomplishments commensurate with experience. Postdoctoral and teaching experience are preferred. To apply, please go to https://jobs.ncsu.edu/postings/70635. Applicants should *attach to the online application*: a CV and a statement of research and teaching interests. In addition, applicants *should arrange for three letters of recommendation to be sent to the committee. *Letters should be addressed to Dr. Thomas Wentworth, Chair, Plant Evolutionary Ecology Search Committee, and mailed or sent by email to: Plant Evolutionary Ecology Search Committee, Department of Plant and Microbial Biology, North Carolina State University, Raleigh, NC, 27695-7612 (email: cmfreem2@ncsu.edu). Review of applications will begin on Sept. 1, 2016.

NC State is an equal opportunity and affirmative action employer. Women and members of other underrepresented groups are encouraged to apply. In addition, NC State University welcomes all persons without regard to sexual orientation or genetic information.

William Hoffmann <wahoffma@ncsu.edu>

PennsylvaniaStateU EvolutionaryBiol

Assistant Professor of Biology

Penn State Beaver invites applications for an Assistant Professor of Biology (Tenure-Track, 36 weeks) to begin August 2017, or as negotiated.

Responsibilities: Teach three courses (9 credits) each semester that fulfill the requirements for the Biology degree as well as general education natural science requirements using traditional, hybrid and as pedagogically appropriate, online delivery methods. Courses include introductory level biology courses, as well as upper-level courses in plant biology, plant anatomy, plant physiology, and/or ecology.

Experience in/ability to also teach courses in mycology (fungi) is preferred. Teaching assignments may require teaching day, evening and/or Saturday classes as needed. Publish in high quality refereed journals. Participate in professional organizations and in course, curriculum, and program development. Advise students and provide career guidance. Participate in campus, university, and community service activities.

Qualifications: Ph.D. in Biology (or related field) with specialization in botany/plant biology/plant ecology (willing to consider ABD).

Evidence of potential in research and publication is expected.

Commitment to high-quality instruction in a student-centered environment is expected. Interest in active and collaborative learning, the instructional use of technology, and hybrid and online teaching is an advantage.

Prior college-level and online teaching experience preferred. Enthusiasm for working in a multidisciplinary environment is important.

Campus Information: Penn State is a multi-campus public land-grant university that improves the lives of the people of Pennsylvania, the nation, and the world. Our instructional mission includes undergraduate, graduate, and continuing and distance education informed by scholarship and research. Our research, scholarship, and creative activities promote human and economic development through the expansion of knowledge and its applications in the natural and applied sciences, social sciences, arts, humanities, and the professions.

Penn State Beaver, one of more than 20 Penn State campuses state-wide, is a 100 acre suburban campus located 30 miles north of Pittsburgh and 20 miles north of the Pittsburgh International Airport with easy access to the excitement of the city and relaxation of the country. It is a mixed residential and commuter campus comprised of approximately 700 students. The student-centered faculty and staff are dedicated to excellence in teaching and learning. Students and faculty at Penn State Beaver have all of the resources of a major research university at their disposal including the opportunity to conduct undergraduate research supervised by faculty members, but in a small college atmosphere. Class sizes are small and the student/faculty ratio is low, so students can receive much individual attention. The campus offers baccalaureate degrees in Administration of Justice, Business, Communications, Information Sciences and Technology, Project and Supply Chain Management, and Psychology. The Business Department offers three options within the major: Marketing and Management, Accounting, Individualized. In addition students at the Beaver campus are offered the first two years of study for most of Penn State's approximately 160 academic majors. The student body is largely comprised of traditional aged students, although the campus makes a concerted effort to expand programs for non-traditional students. For more information about Penn State Beaver's Business Program visit http://beaver.psu.edu/academics. For more information about the campus, visit http://beaver.psu.edu/. Inquiries about the position should be addressed to Professor Carey McDougall, Director of Academic Affairs, cem33@psu.edu.

Applicants are required to apply online and upload a cover letter and curriculum vitae; other information pertinent to the position may also be included. Finalists will be asked to submit a list of references.

Closing Date: Application review begins October 15, 2016 and will continue until a suitable candidate is found.

Apply online at http://apptrkr.com/868474 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.

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PennsylvaniaStateU EvolutionaryGenomics

Tenure/Tenure Track Evolutionary Genomics

The Department of Biology in the Eberly College of Science (www.bio.psu.edu) and the Huck Institutes of the Life Sciences (http://www.huck.psu.edu) at The Pennsylvania State University seek enthusiastic, creative, and productive applicants for a tenure-track or tenured faculty position in Evolutionary Genomics. The evolutionary analysis of rapidly expanding genomic datasets requires development and implementation of sophisticated laboratory techniques and rigorous computational approaches. The successful applicant is expected to develop a strong, independent, externally funded research program leading to novel insights and paradigms in evolution from analyses of complex genomic datasets. We are particularly interested in candidates working with vertebrate (including human and other mammalian) systems and in candidates developing the theoretical foundation of evolutionary genomics. The applicant must have a Ph.D. in biology, computer science, statistics, software engineering, or a related field. The successful applicant is expected to teach and perform research in a collaborative environment, with the opportunity to

join one of the Centers in the Huck Institutes of the Life Sciences and to supervise students from interdisciplinary graduate programs. This position features outstanding research space and a competitive start-up package. Applications must be submitted electronically at https://psu.jobs/job/64378 and must include a cover letter, curriculum vitae, and contact information for at least three professional references. Review of applications will start immediately and continue until the position has been 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.

Kateryna Makova, Ph.D. Francis R. and Helen M. Pentz Professor Director, Center for Medical Genomics Department of Biology 310 Wartik Lab Penn State University University Park, PA 16802 Tel: 814-863-1619 Fax: 814-865-9131 E-mail: kmakova@bx.psu.edu Lab: http://www.bx.psu.edu/makova_lab/ Center: http://-www.bx.psu.edu/ctr_med_genom/ Kateryna Makova <kmakova@bx.psu.edu>

RiceU EvolutionaryBiology

Applications are invited for tenure-track positions in the Department of BioSciences at Rice University. We encourage candidates who complement existing strengths of current faculty in any of our three graduate programs:

Biochemistry & Cell Biology; Ecology & Evolutionary Biology; and Systems, Synthetic & Physical Biology. Applications from candidates whose research emphasizes quantitative and predictive approaches are particularly encouraged. Candidates must have a Ph.D., postdoctoral training, and outstanding potential in research and teaching. Successful candidates are expected to establish and maintain a vibrant research program supported by extramural funding and participate in the education and mentorship of graduate and undergraduate students. We particularly welcome applications from women and members of historically underrepresented groups who bring diverse cultural experience and who are especially qualified to mentor and advise all members of our diverse student population.

Application instructions are found under the employment section on the left menu on the department website, http://www.biosciences.rice.edu/ .Review of applications will commence September 30, 2016 and continue until the positions are filled.

Rice University is an Equal Opportunity/Affirmative Action employer, committed to excellence through diversity and inclusion. The University will provide reasonable accommodations to individuals with a disability.

Tom Miller <tom.miller@rice.edu>

Sewanee UoftheSouth Evolution

The Biology Department at Sewanee: the University of the South seeks a tenure-track assistant professor whose teaching and research interests center on some aspect of evolution.

We seek candidates who are enthusiastic about teaching in the context of the liberal arts tradition in education, and who will maintain an active research program with opportunities for undergraduate involvement.

Teaching responsibilities include an upper level evolution course, other courses in the candidate's area of specialty, and regular participation in our introductory courses.

Details here:

http://biology.sewanee.edu/positions2016/
"kzigler@sewanee.edu" <kzigler@sewanee.edu>

StanfordU EvolutionaryBiol

Department of Biology, Stanford University Faculty Position in Evolution

The Department of Biology at Stanford University invites applications for a tenure-track Assistant Professor in the area of evolution. We seek outstanding applicants

engaged in answering fundamental questions in evolution, and welcome a wide spectrum of applicants employing theoretical, empirical, and/or interdisciplinary approaches. The successful candidate will hold a Ph.D., and is expected to develop a vigorous research program and to participate in the Department's teaching at both the undergraduate and graduate levels. More information about the Department and the University can be found at http://biology.stanford.edu/ . Applicants should submit a cover letter, a curriculum vitae including publication list, a statement of research accomplishments and future plans, a statement of teaching experience and interests, and three letters of reference. All materials must be submitted electronically to AcademicJobsOnline < http://academicjobsonline.org/ajo/jobs/7544 >. Inquiries may be directed to maychin@stanford.edu.

Applicant materials and reference letters must be received by October 15, 2016. The appointment is anticipated to begin September 1, 2017.

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

"May L. Chin" <maychin@stanford.edu>

SyracuseU PlantEvolutionaryPhysiology

Assistant Professor position in Plant Physiological Ecology at Syracuse University, NY. Note that candidates with expertise in evolutionary physiology of plants are strongly encouraged to apply!

The Department of Biology at Syracuse University seeks applicants for a tenure-track position in Plant Physiological Ecology at the assistant professor level. We seek outstanding candidates that take a physiological approach to plant function, with application to broad conceptual issues in ecology and evolution. The successful candidate will join an interactive group of plant biologists with strengths in molecular biology, population genetics, species interactions, global change biology, and terrestrial biogeochemistry. The candidate is expected to develop a vigorous externally funded research program and participate in graduate and undergraduate teaching and mentoring in the areas of his or her expertise.

Candidates must have a PhD in a relevant area of biology and an outstanding record of research experience at the postdoctoral level. Competitive salary, start-up funds, and laboratory space will be provided. Department resources include modern greenhouse and growth chamber facilities, an experimental research garden, and a new Climate Change Garden education and outreach facility. The Department of Biology also has strong research and education ties to the adjacent State University of New York College of Environmental Science and Forestry (SUNY-ESF). Located between the Adirondack Mountain, Finger Lakes, and Lake Ontario regions of upstate New York, the metropolitan area of Syracuse boasts myriad cultural and recreational opportunities and offers a wide array of urban, small town, and rural living.

For full consideration, applicants must complete an online application atwww.sujobopps.com (#072736), including a cover letter, CV, research and teaching statements, and arrange for three letters of recommendation to be submitted at www.sujobopps.com. Review of applications will begin October 1, 2016. We especially encourage applications from women, individuals with disabilities, and military veterans and members of underrepresented groups, as well as international applicants. Syracuse University is an AA/EOE. Questions can be addressed to search chair Jason Fridley at fridley@syr.edu.

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 Jannice Friedman <friedman@syr.edu>

TempleU LabManager BiodiversityScience

A full-time position of LAB MANAGER is available at Temple University's Center for Biodiversity within the joint lab of Drs. Matthew Helmus and Jocelyn Behm. The lab mission is to integrate biodiversity science with human ecology to understand contemporary patterns of biodiversity and its functioning within ecosystems. The lab manager be will be responsible for research activities and overseeing day-to-day operations of the lab including:

- data mining - genetic sequencing - functional trait measurement - biodiversity sampling - ecosystem-service assessments (in the lab and the field) - managing undergraduate research assistants - database maintenance - lab administration

Proficiency in all of these areas is not expected, instead applicants must have the ability, background, and enthusiasm to learn relevant techniques.

Applicants must have a bachelor's degree (Master's degree preferred) in biology, environmental science, or other relevant field. Ideal applicants are those with relevant prior research experience, but most importantly, the successful applicant will be well-organized, able to work both independently and in a team setting, and motivated to learn. This position is ideal for those craving experience in the exciting, fast-paced world of biodiversity science before pursuing a higher degree.

Please email applications to biodiversity@temple.edu. Include your CV, unofficial transcript, contact information for three references, and a brief letter of interest that describes your relevant background experiences, managerial skills, and why you are interested in the position. Review of applications will begin August 12, 2016 and will continue until the position is filled. The start date is negotiable, salary is commensurate with experience, and the position includes a competitive benefits package. The position is initially for one year, and can be extended two more years given positive work reviews. Possible extensions of the position are also likely as funding is acquired.

The Center for Biodiversity is located in a new LEED-Gold certified building on Temple's main campus in historic Philadelphia. The Center provides state-of-the-art biodiversity research facilities along with support staff with expertise in media development, GIS technology, and genetics. Temple University, founded in 1884, is a public R1 university with a diverse student body of ca. 40,000 students. It is the sixth largest provider of graduate school education in the U.S., is within the top 4% of research institutions in the U.S., and is in the top ten of the fastest gainers in ranking by the US News & World Report's Best Colleges. Philadelphia is the birthplace of America, filled with numerous attractions (e.g., Philadelphia Museum of Art, Philadelphia Zoo, Academy of Natural Sciences), amazing food, and a quick train ride to New York City and Washington DC. Philadelphia is nestled within an extensive national/state trail and park system, and is very close to Valley Forge National Park, the Pocono Mountains, the unique Pine Barren ecosystem, and the beaches of the Atlantic shore.

Temple University is an equal opportunity, equal access, affirmative action employer committed to achieving a diverse community.

For more information see: http://-www.matthelmus.com/ http://www.jocelynbehm.com/ http://www.biodiversitycenter.org/ Matthew R. Helmus, Ph.D. Center for Biodiversity Department of Biology Temple University Philadelphia, PA 19122 www.matthelmus.com Phone: 215 204-4244 Email: mrhelmus@temple.edu Office: 502 SERC, Main Campus

Matthew Helmus <mrhelmus@temple.edu>

UAlabama CoordinatorZoologicalCollections

Coordinator of Zoological Collections (Job. No. 501652)

Institution: The University of Alabama Location: Tuscaloosa, Alabama Closing date: 31 August 2016 (will be extended to 30 September 2016)

Job Summary: The Coordinator Zoological Collections will oversee the day-to-day operations of Biological Sciences' Ichthyological, Herpetological, Invertebrate, and Frozen Tissue/DNA collections and their associated databases.

Additional Department Summary: This position is responsible for taxonomic identification of existing and new specimens; cataloging and computerization of new holdings; collections database management (Specify software); preparation and maintenance of preserved fishes,

amphibians and reptiles, decapods, bivalves and snails, and associated tissue and/or DNA samples; loans, acquisitions, and exchanges of preserved fishes, amphibians and reptiles, decapods, bivalves and snails, and associated tissue and/or DNA samples; ordering of curatorial supplies and maintenance of Biological Sciences research collections; supervision of curatorial maintenance activities by undergraduate work-study or hourly students and graduate students; conduct tours of the research collections and associated facilities; assist with grant-writing to support scientific research, and collections operations and improvement; keep records of collections usage and growth and prepare reports of collection activities; and provide an education outreach program for primary and secondary students in the area.

Required Minimum Qualifications: Master's degree in biology, zoology, or fisheries science with an emphasis on fishes and at least one year of experience in curation of biological collections with an emphasis on taxonomic identification of fishes.

To Apply: Applications are only accepted online through The University of Alabama jobs website (http://staffjobs.ua.edu). Please search for job no. 501652 or Coordinator of Zoological Collections.

For additional information, please contact Dr. Phillip Harris, Curator of Fishes (pharris@ua.edu).

"Harris, Phillip" <pharris@ua.edu>

UAlberta 2 Symbioses Conservation

UNIVERSITY OF ALBERTA Department of Biological Sciences Tenure-track position in Fish Conservation Biology Assistant/Associate Professor

We invite applications for a tenure-track position at the Assistant or Associate Professor level in Fish Conservation Biology. We are interested in applications from excellent candidates who study any aspect of fish conservation, using any taxonomic group(s), at any level(s) of organization. Use of empirical and/or theoretical approaches in the field or the lab are all welcomed. The successful candidate must have a PhD and a proven record of leading-edge research, as well as demonstrated potential for excellence in teaching.

The Department of Biological Sciences (https://uofa.ualberta.ca/biological-sciences) is one of the largest in North America, with 65 faculty members and 250 graduate students. This concentration of biologists offers a collegial environment for collaboration among ecologists, mathematical biologists, organismal biologists, molecular biologists, physiologists, and evolutionary biologists. Exceptional infrastructure supported by both the Department and the Faculty of Science, includes field stations (e.g. Bamfield Marine Sciences Centre), an extensive aquatics facility, plant growth facilities, museums, and access to service units in chemical instrumentation, molecular biology, plant/soil analysis, and microscopy. Members of Biological Sciences benefit from interdisciplinary connections with members of many other departments in the Faculty of Science, Faculty of Medicine and Dentistry, Faculty of Agriculture, Life, and Environmental Sciences, and the School of Public Health at the University of Alberta.

The successful candidate will be expected to contribute to a vibrant, forward-looking Department through teaching in the Department's undergraduate and graduate programmes; building upon their expertise to develop an independent, original, externally funded research programme that includes the ability to recruit and supervise undergraduate and graduate students; and contributing to a collegial environment through service.

Applicants must hold a PhD in the biological sciences or a related field. Candidates with postdoctoral experience in ecology, as well as prior experience in teaching and mentorship, will be given hiring priority. The successful candidate will have a strong publication record demonstrating exceptional research expertise in ecology and show the ability or potential to obtain external funding from different programmes or sources to develop a strong research programme. The successful candidate will have the ability to teach courses in ecology at a diversity of levels and be an effective member of graduate committees for students that tackle a diverse range of ecological questions.

Candidates should electronically submit a curriculum vitae, a one-page summary of research plans, a one-page statement of teaching interests, and reprints of their three most significant publications to fishconservationbio@ualberta.ca. Applicants must also arrange for three letters of reference to be sent to the attention of the Chair to fishconservationbio@ualberta.ca.

All correspondence should be addressed to: Dr. Michael Caldwell, Chair Department of Biological Sciences CW405 Biological Sciences Building University of Alberta Edmonton, AB Canada T6G 2E9 Closing Date: November 10, 2016 The effective date of employment will be July 1, 2017.

To assist the University in complying with mandatory reporting requirements of the Immigration and Refugee Protection Act (R203(3) (e)), please include the first

digit of your Canadian Social Insurance Number in your application. If you do not have a Canadian Social Insurance Number, please indicate this in your application. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

The University of Alberta hires on the basis of merit. We are committed to the principle of equity in employment. We welcome diversity and encourage applications from all qualified women and men, including persons with disabilities, members of visible minorities, and Aboriginal persons.

UNIVERSITY OF ALBERTA Department of Biological Sciences

Tenure-track position in the Evolution and Ecology of Symbioses Assistant/Associate Professor

We invite applications for a tenure-track position at the Assistant or Associate Professor level in Evolution and Ecology of Symbioses. We are interested in applications from excellent candidates who study any aspect of symbioses, using any taxonomic group(s), although research involving invertebrates, fungi (and other microbes) and plants are a priority for the Department in this hire. Use of empirical and/or theoretical approaches in the field or the lab are all welcomed. The successful candidate must have a PhD and a proven record of leading-edge research,

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UCalifornia Davis HumanEvolution

UNIVERSITY OF CALIFORNIA, DAVIS

DEPARTMENT OF ANTHROPOLOGY

POSITION ANNOUNCEMENT

The Department of Anthropology at the University of California, Davis, invites applications for a tenure-track Assistant or Associate Professor position in Genetic Anthropology. Ph.D. must be completed by the first day of courses (September 2017). This recruitment is conducted at the Assistant or Associate rank. The resulting hire will not be at the full professor rank, regardless of the proposed appointee's qualifications.

We seek applicants with a record of original research and scientific publication on using genetic and genomic data to illuminate human or non-human primate evolution (phylogeny, demography, adaptation), with a background in bioinformatics, molecular biology, and/or population genetics. Applicants must demonstrate exceptional promise as scholars and teachers.

The position is a nine-month appointment within the Department of Anthropology. The proposed start date is July 1, 2017. Teaching duties will be four courses per academic year (quarter system) at the introductory, advanced undergraduate, and graduate level. Courses will include an introductory undergraduate course in Human Evolutionary Biology, an advanced undergraduate course in Anthropological Genetics, and a graduate seminar. The candidate will develop additional classes, perform undergraduate and graduate advising, and supervise graduate and undergraduate student research. The University of California, Davis, and the Department of Anthropology are interested in candidates who are committed to the highest standards of scholarship and professional activities, and to the development of a campus environment that supports equality and diversity.

Applicants should submit: (1) a curriculum vitae; (2) a cover letter; (3) a statement that indicates completed research, current research program, and teaching experience; (4) copies of up to three publications (5) a Statement of Contributions to Diversity and (6) the names and addresses of three referees. Applications must be submitted online to: http://recruit.ucdavis.edu/apply/-JPF01142 . The position will remain open until filled. However, to ensure consideration, applications should be complete by October 3, 2016.

The University of California, Davis, is an affirmative action/equal opportunity employer with a strong institutional commitment to the achievement of diversity among its faculty and staff.

UC Davis is a smoke and tobacco free campus. Smoking, the use of smokeless tobacco products, and the use of unregulated nicotine products (e-cigarettes) is strictly prohibited on any UC Davis owned or leased property, indoors and outdoors, including parking lots and residential space.

Best,

Jennifer

Jennifer N. Willard

Academic Personnel Specialist Division of Social Sciences, Green Cluster Department of Anthropology De-

partment of Sociology Program in Middle East/South Asian Studies University of California, Davis

Office Location: 328B Young Hall Phone: 530.754.4936

Email: jnwillard@ucdavis.edu

Jennifer N Willard <jnwillard@ucdavis.edu>

UCalifornia LosAngeles HumanPopGenetics

TENURE-TRACK PROFESSOR OF HUMAN GENETICS AT UCLA

The Department of Human Genetics at the David Geffen School of Medicine at UCLA is searching for a tenure-track professor to join our faculty (http://-www.genetics.ucla.edu). Preference lies at the Assistant Professor level, but exceptional candidates at Associate or Full Professor will receive consideration. The department encourages applications from outstanding candidates who are committed to engaging in cutting-edge research and education involving experimental, quantitative or theoretical genetics and genomics.

Opportunities for multidisciplinary collaboration are abundant, both within and outside the health sciences. The David Geffen School of Medicine is located on the main UCLA campus, in direct proximity to the other health sciences schools (Public Health, Dentistry, Nursing), and the newly formed Institute for Precision Health and the College of Letters and Science. The UCLA genetics community has a strong commitment to interdisciplinary research and collaboration, including with faculty in Ecology & Evolutionary Biology, the UCLA Institute for Society and Genetics, History, Sociology, and Law. Beyond the Department of Human Genetics, UCLA has many other world-class geneticists in departments such as Biomathematics, Biostatistics, Ecology & Evolutionary Biology, Pediatrics and Psychiatry.

Candidates should hold a PhD, MD or equivalent by the date of appointment and provide, depending on their level of experience, either potential for or evidence of scholarly impact through publications, excellence in teaching, and ability to obtain extramural grant funding, as well as strong oral and written communication skills. We welcome candidates whose experience in teaching, research, or community service has prepared them to contribute to our commitment to diversity and excellence. Faculty appointment level and salary will be commensurate with the candidate's experience and qualifications.

To apply: submit a cover letter, curriculum vitae, three letters of recommendation, a statement of research interests and goals, a teaching statement and one or two manuscripts or articles representing your most important work to the Chair, Faculty Search Committee using the link: https://recruit.apo.ucla.edu/apply/JPF02529 . The Search Committee will review applications beginning September 19, 2016 and continue until the position is filled. The earliest possible start date for this position is July 1, 2017. Informal inquiries may be submitted to Dr. Marc Suchard, Chair of the UCLA DGSOM Human Genetics Faculty Search Committee at: hgsearch@mednet.ucla.edu.

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. For the complete University of California nondiscrimination and affirmative action policy, see: UC Nondiscrimination & Affirmative Action Policy (http://policy.ucop.edu/doc/4000376/-NondiscrimAffirmAct).

Marc A. Suchard, M.D., Ph.D. Professor Departments of Biomathematics and Human Genetics David Geffen School of Medicine at UCLA, and Department of Biostatistics UCLA School of Public Health 695 Charles E. Young Dr., South 6558 Gonda Los Angeles, CA 90095 310-825-7442 office

"Marc A. Suchard" <msuchard@ucla.edu>

UIllinois UC LabTech EvolutionaryImmunology

Lab technician position in evolutionary immunology of human and non-human primates

The Brinkworth Evolutionary Immunology and Genomics lab at the University of Illinois Urbana-Champaign is seeking a laboratory technician. The position is responsible for the completion of cell experiments, including bacterial and parasitic infections of mammalian cells, maintenance of parasite and cel populations, complete of molecular library construction and cell-based assays, as well as maintenance of the lab and its inventory.

This is a year long position, with the possibility of re-

newal, pending funding.

Essential Qualifications

The successful candidate will have experience with

clean, immunological technique

raising and maintaining intracellular parasite/microorganism populations

infecting eukaryotic cells

the following molecular techniques to collect data on biological function and genetics: ELISA, PCR, nucleic acid extraction

Preferred Qualifications

The successful candidate will ideally have experience with

culturing a broad range of micro-organisms

training in next generation sequencing analysis

FACS analysis

using R and linux command line programs to analyze genomic data

working in research teams

Position Requirements and Qualifications

Required: Bachelor degree in Biology or a related field

Preferred: Bachelor degree in Microbiology, Parasitology or Immunology

The ideal candidate for this job is interested in infectious disease or human evolution, and may be in between undergraduate and graduate education. We are interested in an individuals who can raise intracellular parasite/bacterial populations and infect eukaryotic cells in BSL2 conditions using clean technique. Candidates should have experience reading scientific literature in immunology, genomics, evolution and disease, and an interest in infectious disease. Please visit the lab's website for more information www.jfbrinkworth.com Individuals interested in this position should send a CV and cover letter along with the names and contact information of two references to Dr. Brinkworth at jfbrinkw@illinois.edu, by *September 12, 2016.*

Jessica Brinkworth <jfbrinkworth@gmail.com>

UMassachusetts Amherst FishTechnician

RESEARCH FELLOW, University of Massachusetts Amherst

The Albertson Lab at the University of Massachusetts Amherst (UMass, Amherst) seeks a Research Fellow to generate and maintain lines of fish, and perform basic molecular biological research focused on the development and evolution of the skeletal system under the guidance and supervision of the Principle Investigator (Dr. Craig Albertson) and co-PI (Dr. Rolf Karlstrom).

This is a non-benefited, full-time 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, generation of stable mutant lines via CRISPR/cas9 system; fish husbandry and maintenance of zebrafish and cichlid stocks; basic molecular biology, include PCR, cloning, in situ hybridization analysis of gene expression; light and electron microscopic analysis of different mutant phenotypes; landmark-based morphometric analysis of craniofacial bone shape in experimental animals; use different transgenic zebrafish lines to conditionally regulate gene expression. Training of lab personnel in various husbandry and molecular biological techniques.

The successful candidate is required to have a B.S. in biology or related field. Highly desirable qualifications include 1-2 years experience with fish husbandry and/or fish developmental genetics. Inquiries about the position can be directed to Craig Albertson, albertson@bio.umass.edu. Salary commensurate with experience.

Candidates must apply online by submitting a cover letter, CV, and the contact details of three references willing to provide letters of recommendation to: http://umass.interviewexchange.com/-jobofferdetails.jsp?JOBID=75171 Review of applications will begin August 26, 2016 and continue until the position is filled. Applications received by August 26th 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.

Thank you for your help.

Lisa

Lisa Barry Biology Department Morrill Science Center South, Room 348 611 North Pleasant Street University of Massachusetts Amherst, MA 01003

Phone: 413-545-2602 Fax: 413-545-3243

Lisa Barry <lisak@bio.umass.edu>

UMissouri ResTech LifeHistoryEvolution

A research specialist I position is available in the King lab (http://elizabethking.org) in the Division of Biological Sciences at the University of Missouri to join a project focused on the genetic and physiological basis of life history evolution using Drosophila melanogaster as a model system. Required responsibilities will include but are not limited to maintaining a set of selection lines, performing phenotyping assays, DNA and RNA extraction, and general coordination and organization of lab activities. The successful applicant will have a Bachelor's degree in a related field, some previous experience working in a laboratory setting, basic computer skills, and excellent written and oral communication skills. Ideally, we seek a highly motivated, enthusiastic individual, who works well with others and has a willingness to learn new skills and take on new challenges. Dr. King is committed to the career development of the successful applicant and welcomes applications from those with a desire to gain certain skills or develop independent research projects.

To apply, go to: http://bit.ly/2ah4SNI. Current employees of the University of Missouri should use this link instead: http://bit.ly/2a76kiu. In addition, applicants should email Elizabeth King (kingeg@missouri.edu) and provide a brief cover letter, a C.V., and names and contact information for 2 references. The cover letter should include a description of previous research experience, interest in the position, and future career goals. Application review will begin August 15th and will continue until the position is filled. The University of Missouri is an equal opportunity/access/affirmative action/pro-disabled and veteran employer.

The Division of Biological Sciences at MU (http://-biology.missouri.edu/) has research strengths in evolutionary biology, genetics and genomics, and quantitative biology. MU also boasts a highly collaborative research environment between departments within the life sciences (e.g., animal sciences, plant sciences, biomedical sciences, statistics, etc.). Columbia is a vibrant college town located in mid-Missouri, 2 hours from both Kansas City and St. Louis (http://www.como.gov/).

kingeg@missouri.edu

UMontpellier Programmer Phylogenetics

. Position: research programmer . Contract duration: 12 months (+ 6 month extension) . Where: CNRS, Montpellier, France . Gross salary: 1600-2500 euros/month depending on qualifications. . Starting date: no later than December 1st 2016. . Funding: Institut Francais de Bioinformatique [1]

The "Methods and Algorithm for Bioinformatics" (MAB) team [2] is seeking a research programmer for a 12 month period that can be extended up to 18 months in total. The successful candidate will work in close collaboration with scientists and other research programmers in the group on one of the projects described below.

1) Testing and optimizing the next release of PhyML. We are aiming at releasing PhyML v4.0 by the end of the year. This new version has many new features and improvements that require thorough testing and fine-tuning. The successful candidate will work in close collaboration with Stephane Guindon and Vincent Lefort to (i) help test the new features, (ii) assess the performance of PhyML on a benchmark of selected data sets, and (iii) contribute to optimizing PhyML through the use of third-party libraries (e.g., BEAGLE, PLL) and/or optimal use of AVX/SSE intrinsics in phylogenetic likelihood calculation.

2) Develop an integrated web environment dedicated to phylogenetics. The objectives of this project will be to (i) provide a web application to facilitate the use of common computing infrastructures (e.g., DRMAA, Galaxy, CIPRES, ...) through web services and (ii) develop REST APIs for phylogenetic inference. The long-term goal of this project is to help researchers in the group (and beyond) easily set up user-friendly web applications for their in-house developed software.

3) Design and build a web server for phylogenomics

studies. The aim here is to develop a convivial web server (in the same spirit as phylogeny.fr) that will provide a comprehensive set of relevant methods to (i) infer species trees from gene trees, that is, the supertree problem, (ii) reconcile gene trees and species trees and (iii) develop solutions to graphically represent combinations of evolutionary events along species trees (speciation, duplication, loss, lateral transfer).

The skills needed will of course depend on the project selected by the candidate (see above). The list provided below is only indicative and should not prevent highly motivated candidate to apply:

. Programming languages: C/C++, Python, shell script, R language. . Web: PHP, CSS, Django, Ajax, API REST, JSON, bootstrap, Angular. . Cloud computing: Docker, any job scheduling system (e.g, SGE, SLURM). . Basic knowledge in biology and statistics is a plus.

Please send a CV and a letter explaining your motivation and preferred project among the three proposed to Vincent Lefort (lefort@lirmm.fr) and Stephane Guindon (guindon@lirmm.fr).

[1] http://www.france-bioinformatique.fr/ [2] http://-www.lirmm.fr/recherche/equipes/mab Stephane Guindon <stephane.guindon@lirmm.fr>

UMontreal MicrobialPopulationGenomics

Jesse Shapiro's lab at Universite de Montreal (UdeM) is looking for motivated and talented scientists to join our team, starting in autumn 2016.

About the lab. We are a diverse and international group of evolutionary biologists, ecologists, microbiologists and computational biologists, working on natural systems ranging from human gut-associated bacteria to bloom-forming freshwater cyanobacteria, using a combination of wet-lab and dry-lab approaches, rooted in population genomics, and located in the wonderful city of Montreal.

For more information about the lab: www.shapirolab.ca About the positions. We are looking for several people to work on two major projects:

1. A toolkit for genome-wide association studies (GWAS) in bacteria. Two positions available, each for a period of 2 years: §Computational Postdoc to benchmark and develop GWAS methods for bacteria. §Bioinformatician to develop open-source, user-friendly tools.

2. Diagnosing and predicting toxic cyanobacterial blooms from 'omic data. Four positions available, each for a period of 4 years: §PhD student to perform mesocosm experiments and analyze genomic and metagenomic time-series data from bloom-impacted lakes. §Computational postdoc to identify biomarkers and develop predictive models. §Bioinformatician to store, organize, assemble and analyze ˜2000 metagenomes, metatranscriptomes and whole-genome sequences. §Lab technician to coordinate sampling, do basic microbiology, molecular biology and sequencing.

PhD candidates should have a MSc or significant research experience, and an excellent academic record.

Postdoc candidates must have completed their PhD recently (maximum of 2 years ago) with expertise in computational biology, population genetics and/or genomics, as evidenced by first-author publications. A strong computational or quantitative background is essential.

Bioinformaticians shoud have an MSc or PhD with a significant amount of experience coding and working with bioinformatics software and computer clusters.

Lab technicians should have an MSc and a significant amount of experience in molecular biology

Applying. To apply, please email a single PDF document containing: (1) a brief letter of research interests, (2) your CV, and (3) contact information for three references to: jesse.shapiro@umontreal.ca

B. Jesse Shapiro Canada Research Chair // Chaire de recherche du Canada Microbial Evolutionary Genomics // Genomique microbienne evolutive Assistant Professor // Professeur adjoint Department of Biological sciences // Departement de sciences biologiques Universite de Montreal www.shapirolab.ca jesse.shapiro@gmail.com

UNevada LasVegas ResTech HawaiianDrosophila 2

The Research Technician position announcement in my lab at UNLV is now posted. Please pass this along to anyone who may be interested in this position. My new email address is donald.price@unlv.edu

https://www.higheredjobs.com/-details.cfm?JobCode=176321809&Title=-Research%20Technician%20%5B17704%5D Cheers,

Don

Donald Price <donald.price@unlv.edu>

UOregon ResAsst EvolutionHost-Microbe

Research Assistant or Associate Institute of Ecology and Evolution Posting: 16178AB Location: Eugene Closes: Open Until Filled

The Barber lab will be opening its doors at the University of Oregon Institute of Ecology and Evolution in September, 2016 and invites applications for both junior and senior career research faculty positions.

Our research applies molecular, biochemical, and genetic approaches to study the evolution of host-microbe interactions. Current project areas include 1) how evolution of host proteins impacts immunity against pathogenic bacteria, 2) how bacteria adapt to survive within animal hosts, and 3) mechanisms by which new biochemical functions emerge in microbes and their hosts. More information is available on our website at evolutionarypath.org.

Qualified Research Assistant candidates will have a bachelor's degree in Biology, Chemistry, or a related field from an accredited institution and relevant research experience. The category and rank of Research Associate requires a PhD in a related field. Candidates with experience in molecular biology, biochemistry, genetics, genomics, microbiology or cell culture techniques are particularly encouraged to apply. Responsibilities include developing and advancing an independent research project with the assistance of Dr. Barber as well as contributing to laboratory organization and operations. The successful candidate will have the ability to work effectively with faculty, staff and students from a variety of diverse backgrounds. A background check is required.

Applicants should send a brief letter stating their research background and interests, a current resume or CV, and contact information for three professional references to ie2jobs@uoregon.edu.

To ensure consideration, please submit materials by September 13, 2016, but the position will remain open until 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.

UO prohibits discrimination on the basis of race, color, sex, national or ethnic origin, age, religion, marital status, disability, veteran status, sexual orientation, gender identity, and gender expression in all programs, activities and employment practices as required by Title IX, other applicable laws, and policies. Retaliation is prohibited by UO policy. Questions may be referred to the Title IX Coordinator, Office of Affirmative Action and Equal Opportunity, or to the Office for Civil Rights. Contact information, related policies, and complaint procedures are listed on the statement of non-discrimination.

http://jobs.uoregon.edu/unclassified.php?id=5649 – INSTITUTE OF ECOLOGY AND EVOLUTION 5289 University of Oregon, Eugene OR 97403-5289 F (541) 346-2364 http://IE2.uoregon.edu EO/AA/ADA institution committed to cultural diversity. The University encourages all qualified individuals to apply, and does not discriminate on the basis of any protected status, including veteran and disability status.

"ie2jobs@uoregon.edu" <ie2jobs@uoregon.edu>

UPittsburgh 3 Evolution

The Department of Biological Sciences at the University of Pittsburgh invites applications for a cluster hire of three tenure- track faculty positions, pending budgetary approval. Two positions will be in the *broad areas of ecology, evolution, and/or behavior, *with one position anticipated at the ASSISTANT PROFESSOR level and one at the ASSISTANT PROFESSOR or ASSOCIATE PROFESSOR level. The third position will be in the *broad area of ecology and sustainability*, anticipated at the ASSISTANT PROFESSOR or ASSOCIATE PROFESSOR level. We seek outstanding scientists who will enhance and complement existing strengths in ecology and evolution in our broad-based interactive biology department. We invite applications from all candidates working on cutting edge questions incorporating the topics of ecology, evolution, or behavior and using animal, plant or microbial systems. Candidates working in the following areas are especially encouraged to apply:

§Species (plant, animal, microbe) interactions

§Microbial ecology or ecology/evolution of the micro-

biome

§Population, functional, evolutionary, or phylo- genomics

§Physiological, biophysical or functional ecology

§Ecological dynamics of host-pathogen interactions

§Animal behavior, behavioral ecology

§Plant community ecology and ecosystems

Successful candidates will have a Ph.D. and postdoctoral experience and will be expected to establish an extramurally funded research program, train graduate students, and actively participate in undergraduate science education. *To ensure full consideration, applications and reference letters should be received by 15 September 2016. *Applicants can apply online at: https://facultysearch.as.pitt.edu/apply/index/MTU1 .Candidates should submit (a) a letter of application, (b) a CV, (c) a 2-3-page statement of research accomplishments and future plans, (d) a brief description of teaching interests, (e) a description of how your research, teaching or service demonstrates a commitment to diversity and inclusion, and (f) at least three letters of reference. For each reference, you will have the opportunity to input a personal email address or an email address generated through Interfolio's Online Application Delivery. In both cases, an email notification will be sent to the designated address with instructions about uploading the letters to our system. Further information about the Department of Biological Sciences and our field station is available at:

http://www.biology.pitt.edu. The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer and values equality of opportunity, human dignity and diversity. EEO/AA/M/F/Vets/Disabled

Corinne L. Richards Zawacki, Ph.D. email: cori.zawacki@pitt.edu Associate Professor, Department of Biological Sciences and Director, Pymatuning Laboratory of Ecology University of Pittsburgh

"At night I went out into the dark and saw a glimmering star and heard a frog and nature seemed to say, well do not these suffice?" - Ralph Waldo Emerson

Cori Zawacki <cori.zawacki@pitt.edu>

URhodeIsland EvolutionMarineOrganisms

Evolution of Marine Organisms - Assistant Professor - The Department of Biological Sciences, University of Rhode Island invites applications for a tenure-track position at the ASSISTANT PROFESSOR level to start in Fall 2017 as part of an ongoing hiring initiative in Marine Biology in the College of the Environment and Life Sciences. The successful candidate will develop a high quality, nationally recognized, and externally-funded research program in evolution of marine organisms (e.g., functional morphology, integrative biology, evolutionary developmental biology). Teaching will include courses in area of specialty that will enhance both undergraduate and graduate degree programs. Advising and mentoring of undergraduate and graduate (MS, PhD) students, and professional service are expected. A successful research program in evolution of marine organisms, a demonstrated publication record, a Ph.D. in biological sciences or closely-related field, and at least one year of postdoctoral research experience at the time of application are required.

The URI Marine Biology Program website (web.uri.edu/marbio) provides more information about the program and pertinent research facilities at the University. Applications are to be submitted in PDF format to the URI jobs website (https://jobs.uri.edu) to apply and view complete details for job posting (SF00276). Please attach four (PDF) documents to your on-line faculty employment application: (1) Cover letter, (2) CV including names and contact information for three professional references, (3) Statements of Teaching Philosophy and Interests, and Research Interests and Future Plans, and (4) PDFs of up to three published papers. Applications will close on September 19, 2016. The University of Rhode Island is an AA/EEOC employer. Women, persons of color, protected veterans, individuals with disabilities, and members of other protected groups are encouraged to apply.

Jacqueline Webb <jacqueline_webb@uri.edu>

UTennesseeKnoxville LabTech EvolBio

Laboratory Technician, Ecology & Evolutionary Biology, University of Tennessee, Knoxville, USA - 160000015T

Description:

The Budke Lab is seeking a highly motivated, goal-oriented individual to join the laboratory as a Laboratory Technician. This key team member will assist with research experiments, as well as day-to-day lab management. The Budke Lab uses mosses and other early diverging plants to study evolution, systematics, and morphology. There will be excellent opportunities to learn molecular, physiology, and developmental biology techniques. Our laboratory is a stimulating and collaborative environment engaging in cutting edge botanical research.

*Duties and responsibilities will include but are not limited to: * Perform experiments to support ongoing research projects. Analyze, plot, and present experimental results. Maintain live plant populations for research experiments. Prepare growth media and solutions. Supervise and mentor undergraduate students researchers. Organize lab inventory, supplies, and orders.

*Techniques used in the lab include: * General molecular biology techniques (e.g., DNA/RNA extraction, PCR, gel electrophoresis). DNA sequence analysis and visualization using computational programs (e.g., Geneious, R, Mesquite) Histology & Microscopy: Sectioning, staining, and imaging for both light and electron microscopy. Field botany: Collecting plants from the wild for laboratory-based experiments and molecular research.

Training will be provided for the necessary laboratory techniques.

Qualifications/*Requirements:* Bachelors degree in a biological science or related field. Previous laboratory experience preparing chemical solutions, operating small lab equipment, and pipetting is required. Problem-solving, strong attention to detail, and high levels of organization are required. Excellent verbal and written communication skills required. Strong work ethic with the ability to work independently and as part of a team is required. Proficiency with computer software (e.g., Word, Excel, Powerpoint, Photoshop, Illustrator) is required.

Schedule: Full-time for one year starting in the Fall of 2016, with the possibility of extension. Salary is commensurate with experience and full-time positions include a competitive benefits package. Application review will begin September 16th. Please apply before Sept 16th for full consideration.

Apply at the link below. https://ut.taleo.net/-careersection/ut_knoxville/jobdetail.ftl?job=-160000015T *Please submit a cover letter, resume/CV, and contact information for three references as a single document when applying.*

More lab information can be found at the following website (http:// jmbudke.github.io/). J. M. Budke, PhD

Assistant Professor and Herbarium Director (TENN)

Ecology and Evolutionary Biology

University of Tennessee

Knoxville, TN 37996

Jessica Budke <jbudke@utk.edu>

VirginiaTech EvolutionaryBiology

The Department of Biological Sciences at Virginia Tech seeks to expand our expertise in evolution by hiring a tenure-track EVOLUTIONARY BIOLOGIST at the assistant professor level starting in the Fall 2017 semester. We are seeking a broadly trained colleague with diverse interests whose work focuses on the genetic and/or ecological basis of evolutionary change. Potential research interests include, but are not limited to, microevolutionary processes in natural populations, evolutionary response to global change, molecular evolution, and the evolution of species interactions. The successful candidate's research may complement existing strengths in our department including disease ecology, microbial ecology, behavioral biology, and integrated organismal biology and may take advantage of shared resources such as the Massey Herbarium. Opportunities to work with university-level programs such as the Global Change Center and Interfaces of Global Change graduate program are available.

Applications should be submitted online at https://-listings.jobs.vt.edu/postings/68497. Consideration of applications will begin October 1, 2016.

Questions may be directed to Ignacio Moore (search chair, itmoore@vt.edu) or Joel McGlothlin

(joelmcg@vt.edu).

Required Qualifications: - Ph.D. degree in Biological Sciences or related discipline at the time of appointment - A competitive research program or, for new Ph.D.s, strong promise for developing an active independent research program

Preferred Qualifications: - Post-doctoral or previous faculty experience - Demonstrated teaching effectiveness - A record of securing extramural funds to support research - An interest in developing interdisciplinary research collaborations

About Virginia Tech: Virginia Tech, founded in 1872 as a land-grant institution, is currently ranked as a Top 25 Public University by US News & World Report and a Top 25 Public Research University by the National Science Foundation. Through a combination of its three missions of learning, discovery, and engagement, Virginia Tech continually strives to accomplish the charge of its motto: Ut Prosim (That I May Serve). As the Commonwealth's most comprehensive university and its leading research institution, Virginia Tech serves a diverse population of 30,000+ students and 8000+ faculty and staff from over 100 countries, and is engaged in research around the world. Invent the Future at Virginia Tech.

Virginia Tech does not discriminate against employees, students, or applicants on the basis of age, color, disability, gender, gender identity, gender expression, national origin, political affiliation, race, religion, sexual orientation, genetic information, or veteran status; or otherwise discriminate against employees or applicants who inquire about, discuss, or disclose their compensation or the compensation of other employees, or applicants; or any other basis protected by law.

For inquiries regarding non-discrimination policies, contact the executive director for Equity and Access at 540-231-2010 or Virginia Tech, North End Center, Suite 2300 (0318), 300 Turner St. NW, Blacksburg, VA 24061. If you are an individual with a disability and desire accommodation, please contact the hiring department.

Joel W. McGlothlin Virginia Tech, Dept. of Biological Sciences Derring Hall 2125, 1405 Perry St. Blacksburg, VA 24061 http://www.mcglothlin.biol.vt.edu Email: joelmcg@vt.edu Phone: (540) 231-0046 Office: Derring Hall 4002

joelmcg@vt.edu

WashingtonU ComputationalBiol

Washington University in St. Louis Department of Biology

TENURE TRACK FACULTY MEMBER IN COMPUTATIONAL BIOLOGY/EVOLUTIONARY GENOMICS/EPIGENETICS, OPEN LEVEL RANK

The Department of Biology at Washington University in St. Louis (http://www.wubio.wustl.edu) invites applications for a tenure-track faculty position, Assistant Professor, Associate Professor or Full Professor, from candidates whose research employs computational and/or genomic-scale approaches to answer important biological questions. We seek an innovative and accomplished scientist whose research program will complement and diversify existing departmental research areas including epigenetics, developmental biology, and evolution in plant/animal/microbial systems.

The successful candidate will have an appointment at an appropriate rank in the Department of Biology depending on qualifications and is expected to establish an externally funded research program. Contributions to both undergraduate and graduate teaching and research mentoring are essential. Duties will also include serving as a formal advisor to select undergraduate students and participating in departmental committees and university service.

Qualificationsfor Assistant Professor position include a PhD degree in a related field and strong research, mentoring and teaching credentials. Qualifications for Associate or Full Professor include all of the above requirements and a program of research and publications expected of a tenured position. Competitive start-up funding, laboratory development resources and ancillary support commensurate with the candidate's qualifications and needs are available with this position.

Applications received before Oct. 1 will receive full consideration. Consideration after that date will be at the discretion of the search committee. Applicants should submit the following materials in a single pdf file format: cover letter; current curriculum vitae; separate statements of research and teaching interests; and three letters of reference sent directly to the application email address, computationalsearch@wustl.edu. Candidate application materials must be submitted electronically as one PDF file to computationalsearch@wustl.edu. Ques-

tions regarding the search process should be directed to Kenneth Olsen (kolsen@wustl.edu), Chair of the Search Committee.

Washington University is an Equal Opportunity Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, age, sex, sexual orientation, gender identity or expression, national origin, genetic information, disability, or protected veteran status

Thanks,

Judy

"Musick, Judy" <jmusick@wustl.edu>

WillametteU EvolutionaryBiology

The Department of Biology at Willamette University welcomes applications for a tenure-track position at the rank of Assistant Professor to begin August 2017.

We are seeking a biologist who is building a career as a scholar and a teacher. Candidates with expertise in any area of biology are encouraged to apply. The successful applicant will work to build an extramurally fundable research program in collaboration with Willamette undergraduates, faculty and staff. We seek candidates who could teach undergraduate courses in one or more of the following areas: Physiology, Evolution and Ecology, and/or Molecular Cellular Biology. The successful applicant will be strongly committed to growing an excellent program integrating teaching, research, and mentoring undergraduate level, and will be expected to teach 5 course units a year (1.0 unit/lecture, 0.5 unit/lab), establish a research program collaborating with undergraduate students, and participate in service to the University community. The teaching assignments will include an introductory non-majors biology course (BIOL 110 Principles of Biology), a course in the Biology Major's Core Curriculum (either Biology 244, Biology 125, or Biology 130), a research intensive course based on their own research program, and upper-division course(s) in the candidate's area of expertise. Course sizes range from 12 to 48 students.

Believing that diversity contributes to academic excellence and to rich and rewarding communities, Willamette University is committed to recruiting and retaining a diverse faculty, staff and student body. We seek candidates, particularly those from historically underrepresented groups, whose work furthers diversity and who bring to campus varied experiences, perspectives and backgrounds.

About Biology at Willamette: Our faculty members view themselves as teacher-scholars; teaching in our department is inspired by Vision and Change (NSF, AAC&U, 2011) and learning through research training is deeply imbedded in the curriculum at all levels. This approach enables us to engage in best pedagogical practices and better serve our increasingly diverse and excellent community of students. 60% of our graduates enter careers in science and technology. The Department is committed to mentoring and career development for junior faculty. Tenure-track faculty have individual laboratory space and access to shared research facilities, including recently renovated molecular and microscopy core facilities. Significant department funding is available to support teaching and scholarship. All faculty members are strongly encouraged to seek extramural funding for research and pedagogical projects. Willamette's Office for Faculty Research and Resources has an outstanding record of helping faculty to find and secure grant funding. For more information about the Department of Biology, please visit http://willamette.edu/cla/biology/ . Willamette University, is one of Forty Colleges that Change Lives (Penguin Books 2012). Founded in 1842, it is the oldest institution of higher education in the Far West. Willamette University is a selective residential liberal arts college in the heart of the Willamette Valley. Situated in Oregon's capital city, Willamette includes the College of Liberal Arts (approximately 2000 students), and graduate programs in Law and Management. The academic year is divided into two semesters, beginning in late August and ending in May.

Willamette University enrolls a substantial number of low-income, first-generation, and underrepresented students of color. Over the past two years, 20% of our undergraduate students were first-generation; 21% were Pell-eligible; and 24% identified as African American, Hispanic/Latino, Native American/Alaska Native, Native Hawaiian/Pacific Islander, or of two or more ethnic backgrounds. The academic undergraduate profile is high. Recent students have received prestigious NSF, Watson, Truman, Fulbright, and Goldwater fellowships.

Willamette University is near the Portland metropolitan area, the Pacific Ocean, and the Cascade Mountains. This year, Willamette University anticipates hiring tenure-track faculty in the following departments: Biology, Chemistry, Civic Communication and Media, Economics, History, Mathematics, and Religious Studies. For more information, visit our web site at http://-www.willamette.edu . We have discovered that junior colleagues thrive here when arriving with a Ph.D. in biology or a related field and postdoctoral research ex-

perience. Therefore, candidates must have a Ph.D., and postdoctoral experience is preferred but not required. A.B.D. candidates with a clear plan for a research program with undergraduate researchers will be considered, but the Ph.D. must be completed before beginning the appointment.

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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

WilliamsC Massachusetts EvolutionaryEcol

Evolutionary Ecologist Tenure -Track Faculty Position Biology Department Williams College The Biology Department at Williams College, a premier liberal arts college with a long-standing tradition of excellence in the sciences, invites applications for a tenure-track position at the rank of Assistant Professor, to begin July 2017. We are especially interested in candidates who can contribute to the intellectual vibrancy and diversity of the academic community through their research, teaching, and service, and who are committed to working effectively with a diverse student population. We seek a broadly trained evolutionary ecologist whose research incorporates state-of-the-art methods and a strong field component to address questions of broad ecological significance. The successful candidate will teach the organismal course in our introductory sequence as well as upper-level courses in ecology and evolutionary biology. This individual will advise undergraduates in research and potentially participate in interdisciplinary programs such as Environmental Studies and/or Bioinformatics, Genomics & Proteomics. Normally, faculty members teach one course and two associated laboratory sections (or the equivalent) each semester. A dynamic research program that is attractive to extramural funding agencies and involves talented undergraduates is expected. Start-up funds and internal funding for research are available. A Ph.D., postdoctoral experience, and a strong research record are required. We anticipate the appointment at the beginning assistant professor level, although a more senior appointment may be possible under special circumstances. Application deadline is October 24, 2016 and all applications should be submitted through Interfolio at https://apply.interfolio.com/36611 . Email, fax, and paper applications will not be accepted. The application should include a cover letter addressed to Professor Joan Edwards (Chair, Biology Department), a curriculum vitae, concise statements of teaching and research plans, and three current letters of recommendation. All offers of employment are contingent upon completion of a background check. Further information is available here: http://faculty.williams.edu/prospective-faculty/background-check-policy/ .Williams College is a coeducational liberal arts institution located in the Berkshire Hills of western Massachusetts. The College has built its reputation on outstanding teaching and scholarship and on the academic excellence of its approximately 2,000 students. Please visit the Williams College website (http://www.williams.edu). Beyond meeting fully its legal obligations for non-discrimination, Williams College is committed to building a diverse and inclusive community where members from all backgrounds can live, learn, and thrive.

Thank you, Dawn Jamros Biology Department Williams College

Dawn Jamros <drj1@williams.edu>

Other

CurrentZool CallPapers SpecialColumn

This is an announcement for submission of papers to a special column in behavioral toxicology. This special column has relevance to evolutionary biologists studying evolutionary outcomes of anthropogenic exposure to pollutants on behavior.

We are excited to announce a special column in the journal of Current Zoology in behavioral toxicology and behavioral ecotoxicology. We are calling for the submission of papers for this special column. We welcome papers evaluating behavioral endpoints of toxicological exposure at the physiological-, organismal-, population-, ecological-, and evolutionary-levels, as well as phylogenetic and conservation approaches. Please see the Current Zoology announcement below for more information.

Questions? Contact one of the guest editors for more information: Dr. John Swaddle (jpswad@wm.edu) or Elizabeth Peterson (epeterson@albany.edu or elizabethkpeterson@gmail.com).

Call for Papers: Conservation Concerns in Behavioral Toxicology

Website: http://cz.oxfordjournals.org/page/-specialcolumn Guest Editors: Dr. John Swaddle (jpswad@wm.edu), Dr. Elizabeth Peterson (epeterson@albany.edu)

Behavioral toxicology (also known as behavioral teratology) is the study of how anthropogenic pollutants alter behavior, and is an emerging field of global importance to both conservation and public health. The disciplines of behavioral toxicology and teratology have made great strides in understanding how human pollution disrupts behavior and contributes to disease. Although great emphasis in the field of toxicology has been placed on understanding how single pollutants affect individual phenotypes, a comprehensive, interdisciplinary approach that includes animal behavior is essential to address how anthropogenic compounds are risk factors for species and population survival in an increasingly polluted world.

This special column will address issues in behavioral toxicology using the framework of Tinbergen's four questions to understand how pollutants affect behavior in terms of causation and mechanisms, development and ontogeny, function and fitness, as well as evolutionary history and phylogenetic patterns. The goals of this special column are to: 1) address the issue that behavioral toxicology is relevant and important when assessing the conservation and preservation of populations, 2) provide a framework for the study of the evolution of behaviors, and 3) identify areas of behavioral toxicology that require further attention to facilitate the future of behavioral toxicology as a discipline within both the behavior and toxicology fields.

Deadline for title submission: September 1, 2016;

Deadline for manuscript submission: November 1, 2016.

Special Column Publication: April, 2017.

A title should be sent to the guest editors and manuscripts should be submitted before the deadline. Manuscripts received after the deadline will be considered as submissions for regular issues.

Submitted papers should not have been published previously, nor will be under consideration for publication elsewhere. Submitted manuscripts are accepted with the understanding that they are subject to peer review and editorial revision.

Elizabeth K. Peterson Ph.D. Candidate Department of Biological Sciences University at Albany-State University of New York 1400 Washington Avenue, Albany, NY 12222

epeterson@albany.edu

"Peterson, Elizabeth" <epeterson@albany.edu>

EvolutionJournal ScienceWriting

Science writing (in evolution!) opportunity for trainees!

Are you a PhD student or postdoc in evolutionary biology and want an opportunity for some practice with science writing?

The flagship journal EVOLUTION anticipates launching a new online section called "Digests", which will feature highlights of and insights from published research articles in a brief and less-technical form, somewhat akin to a "News & Views" story. Digests will be short (~500 words) and linked from the landing page of the research article to maximize visibility.

If you are a trainee interested in contributing a Digest to the journal, please let us know so that we may provide you with more detailed information for how to contribute and how to see what articles are available on which to write.

Turn a summary of your journal club presentation into a publication! Or if you're a faculty member teaching a graduate science writing course, have your students get practice that also helps them begin a portfolio of published writing.

To be added to an e-mail list to receive more information, please write to evolutiondigests@gmail.com . Please do NOT reply to this e-mail. Thank you!

Mohamed Noor <noor@duke.edu>

IDT BiodiversityAward

I am writing to make sureyou and your team are awareof IDT's recent call for entries for our 2016 Sustainability Award.

This page provides an overview of the award and how to apply: http://www.idtdna.com/pages/landing/2016-sustainability-award The goal of the award is to recognize innovative research that has the potential to make a global impact on a selected area of sustainability. The focus of this year's award is biodiversity.

For 2016, the contest is open to all researchers working in or associated with academic/non-commercial research in Illinois or Iowa, two primary areas of operation for IDT. To be considered associated with a lab in Illinois or Iowa, applicants working outside of these states must have an established collaboration with a lab in Illinois or Iowa.

Up to three winners will be selected to receive IDT product credit:

- 1st place: $14,000

- 2nd place: $10,000

- 3rd place: $6,000

Winner(s) will be announced during a special event hosted by IDT at Chicago's famous Field Museum of Natural History on November 14, 2016. During this event, finalists may also be asked to present a poster.

Applications will be judged on overall scientific impact, project feasibility, and the proposed use of oligonucleotides towards the project's success.

The submission deadline is September 15, 2016.Full details and eligibility requirements can be found at http://www.idtdna.com/award . We look forward to receiving your entry and to celebrating with you on November 14. Please share this information with others on your team, in your lab, and at your organization.

Sincerely,

Elizabeth Walder Chief Sustainability Officer

Integrated DNA Technologies sustainability@idtdna.com

Sean P McCall Digital Marketing Manager Integrated DNA Technologies

smccall@idtdna.com

SeoulNatlU VolResAssist AmphibianAdaptation

We are looking for an assistant to conduct amphibian monitoring from mid-January to mid-June 2017. The main task will be the weekly count of breeding individuals at up to 30 sites in South Korea. The project aims at assessing the effects of climate change on the breeding phenology of toads (Bufo gargarizans), Brown frogs (Rana uenoi), Gensan salamanders (Hynobius leechii) and Suweon Treefrogs (Dryophytes suweonensis). This project is under the responsibility of Pr. Jang Yikweon

from Ewha W. University, Seoul, South-Korea.

The successful assistant should have a very strong interest in amphibians and/or climate change, and general ecology. In addition, he/she should be a good driver, as the monitoring requires long driving hours from site to site. Experience with amphibians and willingness to learn very basic Korean will be appreciated.

The assistant will be involved in several projects but will also have the possibility to develop her/his own project. This project does require a heavy time commitment, at times when humans, and amphibians, are usually socially active. This project is recommended to recently graduated bachelor or Master students, looking for the next step in their scientific cursus. Anyone else interested is also welcome to send an inquiry email.

Flights to and from Korea will be at the expense of the assistant, but the lab will be providing financial assistance covering boarding and food.

For more information contact us at:

Pr. Jang Yikweon (jangy@ewha.ac.kr) or Amael Borzee (amaelborzee@gmail.com) for more information.

Amael Borzee PhD Student School of Biological Sciences, Seoul National University Division of EcoScience, Ewha W. University Cell: 0082 10 3610 4863 Email: amaelborzee@gmail.com Researchgate profile: Amael Borzee

Amaël Borzée <amaelborzee@gmail.com>

PostDocs

AWI Bremerhaven DiatomGenomicsAdaptation

PostDoc Position

Code: 112/D/Bio Faculty: Science Job type: Full time Location: Bremerhaven The Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research (AWI) is a member of the Helmholtz Association (HGF) and funded by federal and state government. AWI focuses on polar and marine research in a variety of disciplines such as biology, oceanography, geology and geophysics thus allowing multidisciplinary approaches to scientific goals. â€ PostDoc Position Background and tasks: This position is available in a 3-year research project, starting end of 2016 / beginning of 2017.The project aims at investigating population-level genomic and phenotypic variability and local adaptation in a broadly distributed polar pelagic diatom species. The work plan includes field- and laboratory work and bioinformatic analyses of next generation sequence data (genomes and transcriptomes). Since the project is a joint effort of groups at AWI Bremerhaven and the University of Cologne, the project requires work place flexibility and/or frequent travelling between both places. The initial one year employment at the AWI is followed by a 2-year employment at the University of Cologne for the bioinformatics analyses and data synthesis. For further information, please contact Bánk Beszteri, Klaus Valentin or Uwe John at AWI and/or Gernot Gloeckner at the University of Cologne.

Requirements: The ideal candidate has a PhD degree in marine biology, population genetics, evolutionary genomics, or another related field; a willingness to work with a broad range of methodologies; a strong interest in sequence based bioinformatics; and experience with one or more of the following fields: microalgal cultivation and ecophysiological experiments, molecular biology techniques (nucleic acid extraction, PCR, genotyping-by-sequencing), and bioinformatic analyses of large-scale sequence data sets.

For further information please contact Dr. Bánk Beszteri (bank.beszteri@awi.de, Tel.: +49 (0)471-4831- 1530).

The position is limited to 3 years. The salary will be paid in accordance with the German Tarifvertrag des öffentlichen Dienstes (TVöD Bund) up to salary group 13, based on qualifications and transferred tasks. The place of employment will be Bremerhaven.

We offer you a multi-disciplinary, international, and fascinating professional environment with flexible working hours, state-of-the-art research equipment, and a first-rate infrastructure.

AWI aims to increase the number of women in the scientific staff and therefore encourages women to apply. Disabled applicants will be given preference when equal qualifications are present. The AWI fosters the compatibility of work and family through various means. Because of our engagement in the area of work-life compatibility we have been awarded the certificate “Career and Family”.

Please forward your applications with the standard documentation by October 12th, 2016 referencing code 112/D/Bio to: Alfred-Wegener-Institut für Polar- und Meeresforschung, Personalabteilung (human resources), Postfach 12 01 61, 27515 Bremerhaven/Germany (or by e-mail (all documents merged into one PDF file) to: personal@awi.de. https://www.awi.de/nc/en/work-study/jobs/job-offer/detail/jobs/postdoc-position.html
Dr. Bánk Beszteri

Friedrich Hustedt Diatom Study Center Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research Am Handelshafen 12 27570 Bremerhaven Germany

E-mail: bank.beszteri@awi.de www: http://-www.awi.de/en/go/hustedt http://www.awi.de/-en/about-us/organisation/staff/bank-beszteri.html
Bank Beszteri <bank.beszteri@awi.de>

BournemouthU eDNA metabarcoding

Post-Doctoral Researcher - eDNA metabarcoding (Fixed-term)

Key information

Salary: Starting salary from £28,143 - £32,600 per annum with further progression opportunities to £35,609

Date advertised: Wednesday, August 24, 2016

Closing date: Thursday, September 22, 2016 - midnight

Please quote reference: FST143

Interview date: Tuesday, October 11, 2016

Be part of a diverse ecological team in the Department of Life and Environmental Sciences within the Faculty of Science and Technology at Bournemouth University utilising eDNA methods to inform ecological management for river fish and urban pollinators. Working closely in collaboration with Dr Elizabeth Franklin (Pricipal Investigator) and associated project leads (Professor Rob Britton, Dr Kathy Hodder, Dr Demetra Andreou and Dr Emilie Hardouin).

The successful applicant will be responsible for providing research support to a pair of eDNA meta-barcdong projects including their planning, execution and analysis.

For more information on the project see the Bournemouth University Research Blog:

http://blogs.bournemouth.ac.uk/research/2016/-08/01/eco-coding-a-heif-funded-centre-for-dna-meta-barcoding-ecology/ https://www1.bournemouth.ac.uk/-post-doctoral-researcher-edna-metabarcoding-fixed-term To discuss this opportunity further please contact Dr Liz Franklin efranklin@bournemouth.ac.uk

This post is offered as a fixed term appointment until 31 July 2017.

BU is a Disability Two Ticks Employer and has signed up to the Mindful Employer charter. Information about the accessibility of University buildings can be found on the BU DisabledGo webpages This email is intended only for the person to whom it is addressed and may contain confidential information. If you have received this email in error, please notify the sender and delete this email, which must not be copied, distributed or disclosed to any other person. Any views or opinions presented are solely those of the author and do not necessarily represent those of Bournemouth University or its subsidiary companies. Nor can any contract be formed on behalf of the University or its subsidiary companies via email.

Emilie Hardouin <ehardouin@bournemouth.ac.uk>

CalAcademy 4 CoralReefEvolution

FOUR POST-DOCTORAL FELLOWSHIPS IN CORAL REEF STUDIES

The Institute of Biodiversity Science and Sustainability and the Steinhart Aquarium, California Academy of Sciences, are recruiting four post-doctoral fellows to be a part of our new 5-year Coral Reefs Initiative. Positions are for 2 years (renewable), have several potential start dates (2016-2018), and come with generous support for laboratory and field work.

The post-doctoral fellows will work closely with Dr. Luiz Rocha (reef fish taxonomy, ecology, and evolution), Dr. Rebecca Albright (global coral reef ecology), Dr. Pim Bongaerts (reef coral taxonomy, ecology, and evolution), and Steinhart Aquarium Director Bart Shepherd (coral restoration), as well as our other coral reef curators Dr. Terry Gosliner (nudibranchs), Dr. Gary Williams (soft corals) and Dr. Rich Mooi (echinoderms). Desired research expertise include mesophotic reef biology, genomics, bioinformatics, coral reef conservation, and ecological data analyses, but applicants with expertise in any area of coral reef evolution, ecology, and conservation will be given full consideration. The California Academy of Sciences is also a public facing institution that receives ~1.5 million visitors every year, so public outreach through in person and online interactions will be encouraged.

Applicants should possess a PhD in a relevant discipline at the time of hiring, be able to work collaboratively across the different laboratories and departments involved, and have strong academic publication and outreach records. California Academy of Sciences post-docs are expected to participate in a wide variety of outreach programs, both online and in our public museum.

To apply please submit a letter of interest, curriculum vitae, and a 2-page research statement summarizing your research accomplishments and goals to SnapHire (http://calacademy.snaphire.com/-

jobdetails?ajid=3DUPxO8) at the CalAcademy website by September 24, 2016. Please specify your desired start date in your letter of interest. General inquiries should be sent to Luiz Rocha (lrocha@calacademy.org).

The California Academy of Sciences is a scientific and educational institution dedicated to exploring, explaining, and sustaining life on Earth. Based in San Francisco's Golden Gate Park, it is home to a world-class natural history museum, aquarium, and planetariumall under one living roof.

Luiz A. Rocha, PhD Associate Curator and Follett Chair of Ichthyology California Academy of Sciences p. 415.379.5370 f. 415.379.5731 LRocha@calacademy.org http://www.luizrocha.com/academic/ 55 Music Concourse Drive Golden Gate Park San Francisco, CA 94118

Luiz Rocha <lrocha@calacademy.org>

Cambridge DrosophilaParasitoids

We are looking for a postdoctoral researcher to work on the evolution and genetics of parasitoid resistance in Drosophila. The work will be carried out in the lab of Dr Frank Jiggins and in collaboration with Dr Alex Leitao who is an EMBO fellow in the group.

Using Drosophila and its parasitoids as a model, you will examine the genetic basis of variation in susceptibility to infection and the reasons why this variation is maintained in populations. The project will combine whole-genome approaches with modern Drosophila genetics.

The work will suit a researcher who holds, or is about to be awarded, a PhD in evolutionary biology or genetics. You should also have knowledge and experience of routine molecular biology (cloning, PCR etc), bioinformatics and data analysis, and Drosophila genetics.

If you have not yet been awarded your PhD you will initially be appointed as a Research Assistant, on the salary scale 25,023 - 28,982, with promotion to Research Associate on the higher salary scale 28,982 - 37,768 on confirmation of award of your PhD.

The position will be based in the Department of Genetics on the Downing Site in central Cambridge.

Fixed-term: The funds for this post are available until 31 January 2020 in the first instance.

Once an offer of employment has been accepted, the successful candidate will be required to undergo a health assessment.

To apply online for this vacancy and to view further information about the role, please visit: http://www.jobs.cam.ac.uk/job/11098. This will take you to the role on the University's Job Opportunities pages. There you will need to click on the 'Apply online' button and register an account with the University's Web Recruitment System (if you have not already) and log in before completing the online application form.

Please contact Frank Jiggins (fmj1001@cam.ac.uk) for further information about the project.

Department of Genetics University of Cambridge Downing Street Cambridge CB2 3EH

Telephone: 01223 333175

http://www.jiggins.gen.cam.ac.uk/
"fmj1001@cam.ac.uk" <fmj1001@cam.ac.uk>

CIBIO Portugal EvolutionBiol

Post-Doctoral Research Fellowship

Reference: ICETA 2016-67

Link to the call: http://www.eracareers.pt/opportunities/index.aspx?task=global&jobId=79396
Main research field: Biological sciences

Job description:

A call is open for the award of a Post-Doctoral Research Fellowship (BPD) Reference ICETA 2016-67 within the framework of a FCT-ARN funded Project "SPATIO-TEMPORAL COLONIZATION PATTERNS IN EXPANDING POPULATIONS: an integrated genetic and genomic approach" (FCT-ANR/BIA-BIC/0010/2013).

Admission requirements:

Candidates will be admitted to the competition when demonstrating:

(i) A Ph.D. title in Environmental Sciences or Biological Sciences;

(ii) Experience in combining environmental, genetic (particularly DNA barcoding) and distributional data to address ecological/evolutionary questions;

(iii) Experience in working with Orthoptera inhabiting managed forests and agro-systems;

(iv) Extensive experience in managing databases and in

fieldwork;

(v) Proficiency in written and spoken English; and

(vi) Autonomy to lead a scientific work, excellent oral and written communication skills, and strong networking skills.

Preference will be given to candidates with:

(i) An excellent publication record by international standards;

(ii) Strong interest and experience in biodiversity assessment applied to conservation issues and participation in international committees;

(iii) Experience in organizing workshops and international meetings;

Work plan:

The successful candidate will be in charge of analysing genetic data (including DNA barcoding) and environmental and distributional data sets of foundational species inhabiting protected European habitats.

Legislation and regulations:

A bolsa e atribuÃda ao abrigo da Lei no40/2004, de 18 de Agosto (Estatuto do Bolseiro de Investigacao CientÃfica) e Regulamento de Bolsas e Investigacao da Fundacao para a Ciencia e a Tecnologia em vigorhttp://www.fct.pt/apoios/bolsas/docs/-RegulamentoBolsasFCT2015.pdf . Workplace:

The work will be performed at the CIBIO/InBIO (Campus Agrario de Vairao, Porto University) supervised by Dra. Cristina GarcÃa.

Duracao da bolsa/Grant duration:

The fellowship is awarded for 6 months starting in September 15th, 2016, renewable for similar periods.

Value of monthly maintenance allowance:

Monthly allowance will be 1.495 euro according to the stipends established by FCT (www.fct.pt/apoios/-bolsas/valores). Payment will be made by bank transfer on a monthly basis.

Selection methods:

The ranking of candidates will be performed by a global evaluation based on the publication record relevant to the project (40%), and his/her experience in previous projects relevant to the work-plan and other merits (40%), and a motivation letter (20%). The jury may not award this grant, if the expected quality and requirements of the candidates are not met. The jury might require an interview (at CIBIO/InBIO or by Skype) to make a final decision among the shortlisted candidates.

Composition of the Selection Panel:

Cristina GarcÃa (Chair), Pedro Beja (CIBIO/InBIO), Dr. Paulo Celio Alves (vowel, CIBIO/InBIO), and Joana Pauperio (vowel, CIBIO/InBIO) (substitute member).

Form of advertising/notification of results:

The final evaluation results will be published and the winning candidate will be notified by e-mail or telephone.

Deadline for application and presentation of applications:

This call is open from the 04/08/2016 to 18/08/2016.

Application documents:

i. A motivation letter explaining why you are interested in this position;

ii. A PDF of your CV

iii. PhD degree certificate and other documents you might find relevant to sustain your application.

Applications should be mailed to bolsas.cibio@cibio.up.pt (please, include BPD ICETA-2016-67/Expand Tree in the subject).

CIBIO-InBIO Divulgação

CIBIO Portugal InvasiveSpecies

Post-Doctoral Fellowship

Reference: ICETA 2016-75

Link to the call: http://www.eracareers.pt/-opportunities/index.aspx?task=global&jobId=79811
Main research field: Biological sciences

Scientific Area: Ecology, Biology

Job description:

A Post-Doctoral fellowship is now open for applications at ICETA (CIBIO-InBIO) - Reference ICETA 2016-75 in the context of the Project “Using network theory to predict risk of invasion” (PTDC/AAG- GLO/0463/2014 e POCI-01-0145-FEDER-016583) granted by national funds by FCT/MCTES (PIDDAC) and co-funded by FEDER funds through the Operational Programme for Competitiveness Factors (POFC)- COMPETE.

Background:

Biological invasions are one of the greatest global

changes now underway. Human translocation of species, either intentional or not, is mixing the world's biota and while the majority of transported species fails to establish in the new areas, some eventually become invasive. Invasive species are now a main cause of important declines in biological diversity, of economic and productivity losses in human enterprises and of large-scale changes in the spatial distribution of human and animal diseases. The current number of known invasive species worldwide already reaches the tens of thousands and the increase of this number is strongly associated with the increase in the extent and volume of trade and transport. Consequently, as globalization ensues, it is expected that the number of invasive species and the magnitude of their impacts becomes even higher.

Research environment:

The postdoc will be associated with LuÃs Reino in the Applied population and community ecology laboratory in Lisbon (http://maerua.iict.pt/applecol/) led by Prof. Pedro Beja, which will co-supervise the work. The successful candidate will also be actively involved with the CIBIO-partners at the University of ÃÂvora in the group led by Prof. Miguel B. Araujo (www.maraujolab.com), particularly the other candidate that will be contracted under this project. This project also involves collaboration with a cohort of international scientists including Riccardo Scalera (IUCN), Daniel Sol (CSIC), David Richardson (Stellenbosch University), Diederik Strubbe (University of Copenhagen), Jose Tella (Estacion Biologica de Donana- CSIC), Martina Carrete (University Pablo de Olavide), Jonathan Jeschke (Berlin-Brandenburg Institute of Advanced Biodiversity Research), among others.

Required background and skills:

Two alternative profiles are suitable for this post:

Profile 1 - PhD in Mathematics or Physics. Solid skills in applied modelling of network-related dynamics. Good programming skills are a must. Strong motivation for working in ecological problems is highly appreciated.

Profile 2 - PhD in Biology, Ecology and related fields. Solid background in dispersal ecology with proven experience in environmental modelling, numerical analysis of ecological data and macroecology. Good programming skills are a must. Proven knowledge of network dynamics is highly appreciated.

Language:

English as a first or second language is required.

Publication record:

Candidates are expected to have a good publication record in internationally refereed journals.

Working Plan:

The successful candidate will work mainly on the development of risk models for bird invasions. The modelling is expected to be spatially and temporally explicit and will use available data on networks of bird trade and other appropriate environmental and socio-economic predictors.

Legislation framework:

A fellowship contract will be celebrated according to the regulations defined by FCT "Regulations for Advanced Training and Qualification of Human Resources", in accordance with Law 40/2004, of 18 August, as amended and republished by Decree-Law No. 202/2012 of 27 August, and as amended by Decree-Law No. 233/2012 of 29 October and by Law No. 12/2013, of 29 January, and Decree-Law No. 89/2013 of 9 July, to Fellowships Regulation of FCT (www.fct.pt/apoios/bolsas/docs/-RegulamentoBolsasFCT2015.pdf).

Place of work:

CIBIO/InBIO - Instituto Superior de Agronomia, University of Lisbon.

Duration and Starting date:

12 months, with the possibility of renovation to a maximum of 24 months, starting in November-December 2016 (starting date flexible)

Stipend:

Monthly stipend is euro1495 according to the stipends established by FCT, I.P. in Portugal (http://-alfa.fct.mctes.pt/apoios/bolsas/valores) plus social security. Payment will be made by bank transfer on a monthly basis.

Evaluation Methods:

Evaluation will be based on academic qualifications (25%), motivation

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ColoradoStateU PopulationGenomics 2

POSTDOC POSITION IN FROG POPULATION GENOMICS AND EVOLUTIONARY ECOLOGY We are seeking to recruit a highly motivated postdoctoral researcher to work on two research projects focusing on the population genomics and evolutionary ecology of Columbia spotted frogs (Rana luteiventris) and tailed frogs (Ascaphus spp). This postdoctoral position will be based in the laboratory of W. Chris Funk at Colorado State University. The main duty of this postdoc will be to conduct population genomic analysis of Columbia spotted frogs and tailed frogs to test the effects of landscape features on gene flow and to identify loci under selection across environmental gradients. In addition, this postdoc will help with field work and physiological lab work in the summer. REQUIRED QUALIFICATIONS AND SKILLS: We are seeking an individual with expertise in population and landscape genomics, excellent writing ability, and strong interpersonal skills. The candidate should have experience in the collection of NGS data (especially RAD seq library prep), bioinformatics pipelines to assemble Illumina reads and call SNPs, GIS, and landscape genetic analysis. The candidate will also ideally have experience with reference genome annotation. START DATE AND DURATION: The position start date is somewhat flexible, but we hope to employ someone by December 1, 2016. Funding is available for up to 2 years pending satisfactory performance.

APPLICATIONS: Send a 1-page letter describing why you are interested in this job and your relevant experience; your CV; and the names and contact information for three references to Chris Funk at Chris.Funk@colostate.edu. Review of applications will start October 1st and will continue until a strong candidate is hired. SALARY: $47,500 Colorado State University does not discriminate on the basis of race, age, color, religion, national origin or ancestry, sex, gender, disability, veteran status, genetic information, sexual orientation, or gender identity or expression. Colorado State University is an equal opportunity/equal access/affirmative action employer fully committed to achieving a diverse workforce and complies with all Federal and Colorado State laws, regulations and executive orders regarding non-discrimination and affirmative action. The Office of Equal Opportunity is located in 101 Student Services. Colorado State University is committed to providing a safe and productive learning and living community. To achieve that goal, we conduct background investigations for all final candidates being considered for employment. Background checks may include, but are not limited to, criminal history, national sex offender search and motor vehicle history.

W. Chris Funk, Associate Professor Department of Biology Colorado State University 1878 Campus Delivery Fort Collins, CO 80523-1878 Tel: 970-491-3289 Fax: 970-491-0649 E-mail: Chris.Funk at colostate.edu URL: http://wp.natsci.colostate.edu/funklab/ "Funk,Chris" <Chris.Funk@colostate.edu>

CornellU HumanPopulationGenomics AssociationStudies 2

(more info at http://keinanlab.cb.bscb.cornell.edu/-content/jobs)

Postdoctoral positions in human population genomics and association studies

Two postdoctoral positions are available with Alon Keinan in the Department of Biological Statistics and Computational Biology at Cornell University. The Keinan lab studies how human genetic variation has arisen from evolutionary history and its role in common, complex disease risk. We develop computational and statistical methods in human population genomics, genome-wide association studies, and sequence-based association studies and apply them to large-scale sequencing data. Current lab members have backgrounds in computer science, genetics, nutrigenomics, statistics, and physics, which facilitates the collaborative development of methods and their genomic application. Below are representative publications from the lab of related projects, while specific projects will be aligned with the interests of the successful candidate.

The ideal candidate will have a strong track record in either statistical genetics, population genomics, or human genetics, as well as strong programming and statistical skills, with a Ph.D. in computational biology, computer science, statistics, mathematics, genetics, or a related field. The starting date is flexible and can be as early as Sep 2016. Applications will be accepted until the positions are filled. Competitive salaries commensurate

with experience and skills, as well as a generous benefits package will be offered.

Relevant projects can be as part of the lab's ongoing collaborations with Andrew Clark, Erez Levanon, John Novembre, Harry Ostrer, Yun Song, Haiyuan Yu and several consortia.

Interested applicants should send one PDF with CV, a brief description of research interests and experience, and contact information for three references to the attention of Ms. Sue Bishop, administrative assistant (skp5@cornell.edu), indicating "position 207" in the subject line. Informal inquiries are also welcome.

Representative recent publications from the lab: " Clustered mutations in hominid genome evolution are consistent with APOBEC3G enzymatic activity. Genome Research (2016). " Positive selection on a regulatory insertion-deletion polymorphism in FADS2 influences apparent endogenous synthesis of arachidonic acid. Molecular Biology and Evolution (2016). " Inference of super-exponential human population growth via efficient computation of the site frequency spectrum for generalized models. Genetics (2016). " The genetic history of Cochin Jews from India. Human Genetics (2016). " Strong constraint on human genes escaping X-inactivation is modulated by their expression level and breadth in both sexes. Molecular Biology and Evolution (2016). " XWAS: a software toolset for genetic data analysis and association studies of the X chromosome. Journal of Heredity (2015). " Contrasting X-linked and autosomal diversity across 14 human populations. American Journal of Human Genetics (2014). " Neutral genomic regions refine models of recent rapid human population growth. PNAS (2014). " Gene-based testing of interactions in association studies of quantitative traits. PLOS Genetics (2013). " Recent explosive human population growth has resulted in an excess of rare genetic variants. Science (2012).

Alon Keinan, PhD Associate Professor Department of Biological Statistics & Computational Biology 102C Weill Hall | Cornell University | Ithaca, NY 14853 alon.keinan@cornell.edu | 607-254-1328 phone | 607-255-2323 fax http://keinanlab.cb.bscb.cornell.edu/ | @AlonKeinan

CRG Barcelona HumanGenomics

European Genome-phenome Archive (EGA) Postdoctoral position on Human Genomics Data

The Institute

The Centre for Genomic Regulation (CRG) is an international biomedical research institute of excellence based in Barcelona, Spain, whose mission is to discover and advance knowledge for the benefit of society, public health and economic prosperity.

The breadth of topics approaches and technologies at the CRG permits a broad range of fundamental issues in life sciences and biomedicine to be addressed. Research at the CRG falls into four main areas: gene regulation stem cells and cancer; cell and developmental biology; bioinformatics and genomics; and systems biology.

With more than 380 scientists from 42 countries the CRG excellence is based on an interdisciplinary motivated and creative scientific team that is supported by high-end and innovative technologies.

The Scimago Institution Rankings (SIR) World Report 2015 classifies the CRG in 6th position (Health sector) out of over 5100 research institutions around the world.

The centre's other main strategic goals are: to translate basic scientific findings into benefits for health and economic value for society; to provide advanced and excellent training to our scientists; and to communicate and establish a bilateral dialogue with society.

The Centro Nacional de Análisis Genómico (CNAG-CRG) was integrated with the CRG in July 2015 and is one of the major Genome Sequencing Centres in Europe with a large park of second generation DNA sequencers supported by an extensive informatics infrastructure.

CRG has received the "HR Excellence in Research" award from the European Commission which shows the commitment of the institute in conducting transparent and merit-based recruitment procedures and providing attractive working conditions in alignment with the European Charter and Code.

For further information: www.crg.eu The European Genome-phenome Archive

The Center for Genomic Regulation (CRG www.crg.eu) in Barcelona entered a partnership with the European Bioinformatics Institute (EBI www.ebi.ac.uk) to share responsibility for the development of the European Genome Phenome Archive (ega-archive.org) in the context of the European Bioinformatics Infrastructure ELIXIR (www.elixir-europe.org). The EGA team at the CRG interacts intensely with its counterpart group at the EBI. The CRG project is supported by the Spanish National Institute for Bioinformatics (INB, www.inab.org), the Barcelona Supercomputing Center (BSC, www.bsc.es), the Universitat Pompeu Fabra (UPF, www.upf.edu) and the "La Caixa" Foundation

(obrasocial.lacaixa.es) and is based at the Barcelona's Biomedical Research Park (PRBB, www.prbb.org).

The EGA is a world class leader on the field of genomic human data management and looking to strength its role in the Precision Medicine area. The EGA team is playing a relevant role also in many initiatives from the Global Alliance for Genomics and Health (https://-genomicsandhealth.org/)

The EGA team at the CRG is currently recruiting one position at the postdoctoral level. We are seeking a bioinformatician who will work closely with the rest of the team members at the CRG and the EBI.

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Mission of the role

The Postdoctoral holder will co-lead the curation and enrichment of EGA metadata and raw data in a context of HPC and Big Data. Ideal candidates should have a PhD in bioinformatics genomics molecular biology, genetics or related field and a minimum of two years of relevant postdoctoral experience. Additionally, the candidate should have proven experience in genome analysis, with emphasis on statistical genomics and/or establishing links between genomes and phenomes. Proficiency in some common programming language (e.g. Python, Java), R, and relational databases (e.g. MySQL and Oracle) is expected. The post holder will be expected to be comfortable working in a UNIX environment and with very large databases.

Requirements

Studies:

- PhD in bioinformatics genomics molecular biology, genetics or related field

Experience:

- A minimum of two years of relevant postdoctoral experience

Technical skills required:

- Proficiency in some common programming language (e.g. Python Java) R,

- Proficiency in some common relational databases (e.g. PostgreSQL or Oracle) is expected.

- To be comfortable working in a UNIX environment and with very large databases

Languages:

- Fluent level of English

The Offer

- Duration: 3 years including a trial period

- Estimated annual gross salary: A competitive salary will be provided which will be well matched relative to the cost of living

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DalhousieU AntimicrobialResis-tanceMetagenomics

Postdoctoral fellow in bioinformatics: Rapid identification of antimicrobial resistance genes from metagenomics data

Position 2016-MC-AMR

The Beiko lab (http://kiwi.cs.dal.ca/-beikolabWordPress/; software page http://-kiwi.cs.dal.ca/Software/index.php/Main_Page) at Dalhousie University, Halifax, Nova Scotia, is seeking a postdoctoral fellow to develop new bioinformatics tools for metagenome data analysis. The increasing frequency of antimicrobial resistance (AMR) in pathogenic bacteria is creating new challenges for diagnosis and treatment, and rapid assessment of new cases is essential to support immediate public-health and therapeutic interventions.

The main objective of the project is to support rapid and precise identification of AMR genes in metagenomic data. Central to these efforts will be the development of software that can rapidly screen large metagenomic datasets for a target set of genes by taking advantage of new algorithmic approaches, and apply rigorous statistical filtering methods to identify probable AMR genes.

The project is part of a larger initiative involving the McArthur group at McMaster University, and the Brinkman group at Simon Fraser University. Advances in the project will be used to augment the Comprehensive Antibiotic Resistance Database (CARD: https://-card.mcmaster.ca/) and applied to emerging genomic epidemiology data.

The following skills and experience are essential for the position:

* Software development, preferably in C/C++/Python
* Experience with metagenomic data analysis, including quality control, homology search, and taxonomic

/ functional assignment * Other bioinformatics techniques such as sequence alignment and phylogenetics * Familiarity with reference databases * Peer-reviewed publications in metagenomics

The following skills would also be assets to the position:

* Experience with microbial genomics * Efficient computational techniques such as k-mer decomposition and other string-related algorithms * Knowledge of mechanisms of AMR * Statistical sequence representations such as profile hidden Markov models

The position is for 1-2 years, beginning October 1 or as soon as possible thereafter, contingent on performance. The successful candidate will be eligible for benefits; see http://www.dal.ca/faculty/gradstudies/-postdoctoral.html for details.

Please direct all enquiries to Robert Beiko (rbeiko@dal.ca), quoting the position ID (2016-MC-AMR).

– Robert G. Beiko, PhD Professor and Canada Research Chair in Bioinformatics Director, MSc program in Computational Biology and Bioinformatics Faculty of Computer Science, Dalhousie University Halifax, NS, Canada B3H 4R2

Robert Beiko <rbeiko@gmail.com>

InstitutPasteur StatisticalGenmics

POSTDOCTORAL RESEARCH ASSOCIATE IN EPIGENETICS AND STATISTICAL GENOMICS, Institut Pasteur, Paris, France

A Postdoctoral Research Associate position in epigenetics and statistical genomics, funded by the Labex Milieu Interieur (www.milieuinterieur.fr/en), is available in the Human Evolutionary Genetics Unit (Quintana-Murci's Lab) at Institut Pasteur in Paris. The lab combines large empirical datasets and computation approaches to study epigenetic variation, population genetics and the human immune response, for more information see http://www.pasteur.fr/research/heg . The current project focuses on the dissection of the genetic and non-genetic factors affecting DNA methylation variation and its impact on immune response heterogeneity. Genetic, epigenetic and transcriptional data have been obtained in 1,000 healthy donors - stratified by age (5 decades of life, from 20 to 70 years old) and gender - and detailed socio-demographic and biological parameters have been defined. The goals of this project will be (i) to quantify how non-genetic factors, including sex, age, lifestyle habits, latent infections, etc, influence the levels of genome-wide DNA methylation, (ii) to dissect how genetic factors impact DNA methylation patterns, and (iii) to understand the (causal) relationships between genetic, epigenetic, and environmental factors accounting for by immune response heterogeneity. Our consortium benefits from the large and outstanding community of researchers in genomics, population genetics, microbiology, immunology and computational biology at the Institut Pasteur and Paris Universities, providing a working interdisciplinary research environment.

Postdoctoral applicants should have (i) a PhD in bioinformatics, computational biology, biostatistics, genomics, or population genetics, (ii) a quantitative background and/or extensive experience with genomic data analysis, and (iii) strong programming and bioinformatics skills (R and Perl/Shell scripting) are essential.

The position will remain open until filled. To apply, please send a cover letter, CV, summary of past work, and the names and email addresses of three references (in a single pdf file) to Lluis Quintana-Murci at <quintana@pasteur.fr>. Please put "Postdoctoral Research Associate" in the subject line of your email. The starting date can be any time but not later than December 2016 (negotiable).

Frederic Austerlitz <austerlitz@mnhn.fr>

Kiel Bioinformatics aDNA

Post-doctoral position in bioinformatics - ancient DNA analysis

Institute of Clinical Molecular Biology (ICMB), Kiel University and University Hospital Schleswig-Holstein (UKSH), Kiel, Germany

The Research Group for Ancient DNA (aDNA) Analysis at the Institute of Clinical Molecular Biology invites applications for a fulltime postdoc in bioinformatics - ancient DNA.

Job description:

We are seeking a highly motivated individual to conduct research on pathogen evolution in ancient human populations. Special emphasis will be placed on the design of DNA

capture methods, the development of software and the

bioinformatic and evolutionary analysis of pathogen genomes that are isolated from prehistorical human skeletal remains

using next generation sequencing (NGS).Expertise in NGS data analysis is essential. Experiences in microbial genome analysis, evolutionary genomics or ancient DNA analysis are advantageous.

An interest in archaeological questions is welcomed.Prerequisite is a Ph.D. in a discipline relevant for the project (e.g. bioinformatics, microbiology, evolutionary genomics, ancient DNA analysis).

Preference will be given to individuals with a solid publication record. Candidates will be evaluated on the basis of their previous research background and publication record.

Salary classification: According to pay scale E 13, TV-L

Details: The contract starts as soon as possible and runs until June 30, 2020

Closing date: Please apply until August 24, 2016

People with severe disabilities will be given preference when equally qualified. The UKSH is an Equal Opportunity Employer.

In your application, please indicate the reference number 20160510.206.CK. For submission of your documents (cover letter, CV, list of publications and

certificates, in one pdf, 10 MB max), please use the following URL: www.uksh.de/Bewerbung.html?nr 160510.

Almut Nebel, PhD Professor

Institute of Clinical Molecular Biology Kiel University University Hospital Schleswig Holstein . Campus Kiel Schittenhelmstr. 12 . 24105 Kiel, Germany

Fon: +49 (0) 431 597 1373 . Fax: +49 (0) 431 597 2196

a.nebel@mucosa.de . www.ikmb.uni-kiel.de

KielU BioinformaticianAncientDNA

Post-doctoral position in bioinformatics - ancient DNA analysis

Institute of Clinical Molecular Biology (ICMB), Kiel University and University Hospital Schleswig-Holstein (UKSH), Kiel, Germany

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Almut Nebel, PhD Professor

Institute of Clinical Molecular Biology Kiel University

University Hospital Schleswig Holstein Campus Kiel Schittenhelmstr. 12 24105 Kiel, Germany

Fon: +49 (0) 431 597 1373 Fax: +49 (0) 431 597 2196 a.nebel@mucosa.de www.ikmb.uni-kiel.de Almut Nebel <a.nebel@mucosa.de>

MichiganStateU PlantAdaptationResilience

Multiple postdoctoral positions are currently available for research on plant resilience to abiotic and biotic

stresses in the common bean (Phaseolus vulgaris) at Michigan State University. The successful candidate(s) must be highly motivated, have a track record of leading publication in peer-reviewed journals, and have prior experience with research in one or more of the following areas: 1) statistical analysis of large environmental and genomic data sets, 2) genome assembly and annotation, 3) field experiments for QTL mapping, 4) ecophysiology of plant responses to heat and drought, 5) analysis of complex RNA-seq data sets, and/or 6) metagenomic analyses.

Research Program Description: The goal of the research will be to utilize evolutionary principles to identify the genetic basis of important adaptive natural variation within bean for tolerance to various stresses. Common bean is one of the most important food legumes grown worldwide and one of the leading sources of protein in Latin America and sub-Saharan Africa. Bean is also an ideal system for answering basic research questions in adaptation and speciation because it is a self-fertile diploid with a comparatively small genome. Production of bean is limited by drought, heat, and a suite of pathogens. With global climate change, those stresses are likely to become more intense, further hampering the production of common bean worldwide. Innovative approaches to improve germplasm are now needed make common bean more resilient to stress and ensure success across a variety of ecoregions worldwide.

The research will leverage extensive resources available for bean, including large fully genotyped GWAS panels, numerous advance generation hybrid populations, and extensive data sets from field trials across Africa, the Caribbean, and North America. The successful postdoctoral candidate(s) will benefit from an ideal environment at Michigan State University, which includes >150 plant science faculty and a strong community of ecologists and evolutionary biologists (https://eebb.msu.edu/). The research program is sponsored by the new Plant Resilience Institute at MSU (http://research.msu.edu/-plant-resilience-institute/), which includes world leaders in plant genomics and stress tolerance. Research will be further enhanced by partnerships with leading bean breeders and the Legume Innovation Lab at MSU (http://legumelab.msu.edu/).

To Apply: Interested candidates should send a CV, a research statement, and contact information for three individuals who can provide letters of recommendation to David Lowry (dlowry@msu.edu). The research statement should be brief but include a description of past research accomplishments, current research interests, and future career goals. Please feel free to send an e-mail inquiry with questions prior to submitting an application.

David B. Lowry Assistant Professor Plant Biology Department Michigan State University Plant Biology Laboratories Room 268 517-432-4882 http:/-/davidbryantlowry.wordpress.com/ David Lowry <dlowry@msu.edu>

MNHN Paris Biogeography

Postdoctoral position in macroecology and biogeography at the MNHN, Paris, France

The Muséum national d'Histoire Naturelle (MNHN, Paris) invites applications for a full-time 2-year postdoctoral position in macroecology and biogeography of phytophagous insects.

The MNHN is a world-class research institution that aims to document and understand global and local biological and ecological diversity, disseminate the results of these studies to a broad academic and non-academic audience, and contribute to high-level education at all stages of the curriculum. The position will be based within the Institute for Systematics, Evolution and Biodiversity (ISYEB UMR 7205 CNRS, MNHN), a research unit hosting more than 90 researchers whose investigations address questions in systematics, evolutionary biology and ecology, biogeography and macroecology on a variety of non-model organisms in all kingdoms of Life.

The successful applicant will work under the supervision of Dr. Rodolphe Rougerie as part of the research program ACTIAS (http://www.cesab.org/index.php/-en/projets-en-cours/projets-2014/130-actias), funded by the Center for Synthesis and Analysis of Biodiversity (CESAB). One of the main objectives of the ACTIAS project is to carry out a global-scale macroecological analysis of two of the best-documented families of moths (Sphingidae & Saturniidae), highlighting areas where species diversity and evolutionary distinctness are concentrated and most threatened. It will represent the first such analysis on a global scale for a diverse group of invertebrates (>4500 species; see Ballesteros et al., 2016 [doi: 10.1111/ecog.02438] for an example of what has recently been achieved by members of our consortium on Old-World Sphingidae species), made possible by the wealth of existing diversity, distributional, ecological and phylogenetic information available for these moths, including an almost comprehensive species-level DNA barcode database.

The ACTIAS program is run by an international consor-

tium of 12 researchers (see link above for a list) from five countries. Working under Dr. Rougerie at the MNHN, but in close collaboration with the other members of the ACTIAS consortium, the postdoc will: (1) develop and implement the pipeline for the construction of Species Distribution Models (SDMs) for all databased species; (2) carry out macroecological analyses of relevant measures of diversity (e.g., species richness, evolutionary distinctness, phylogenetic diversity); (3) compare these patterns with those already existing for plants and vertebrates; (4) analyze their fit to current conservation measures, rarely critically examined for invertebrates; and (5) contribute to a synthesis of macroecological patterns and eco-evolutionary analysis of diversification in these moths. The postdoc will lead the assembly of manuscripts in collaboration with members of the consortium and also participate in and contribute to the organization of four consortium meetings (two in 2017 and two in 2018) at the CESAB headquarters in Aix-en-Provence.

Qualifications

We are seeking applicants holding a PhD degree in ecology, macroecology, biogeography or related discipline (e.g., conservation biology, evolutionary ecology), with a solid theoretical background and a strong publication record in these fields, proven expertise in applied and spatial statistics, and with a keen interest in global patterns of insect diversity and in ecological modeling. The ACTIAS database will collate distribution records that have or lack DNA barcodes and will be hosted within the Barcode of Life Datasystems (BOLD; www.boldsystems.org). The postdoc will develop R scripts and pipelines that can be implemented within the BOLD API system. We thus expect applicants to have demonstrable skills in writing R scripts.

In addition, applicants should have: §Expertise in the use of GIS for analysis and visualization; §Fluency in English, excellent communication skills and a willingness to organize and lead workshops/meetings; §Experience in presenting and communicating results at international conferences and through publications in high-quality peer-reviewed journals; §An excellent understanding of biodiversity data management.

Desirable skills include an interest in insect diversity, experience in participating in research programs that analyze large datasets, and a broader coding aptitude (e.g., Python) that would facilitate the integration of analytical pipelines in the BOLD API system.

Conditions of employment

We offer a fully funded, two-year fellowship of 2500 euros/month (gross salary, health insurance included).

Application procedure

Send applications to rodolphe.rougerie@mnhn.fr, as a single searchable

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Montpellier EvolutionaryMicrobiology

This is a reminder that the deadline for the following postdoc is August 26th:

A funded postdoctoral position in experimental evolutionary microbiology is open at the CEFE (Centre for Functional and Evolutionary Ecology) in Montpellier, France.

Project: The recruited postdoc will conduct research in the framework of the ERC CoG HGTCODONUSE project. The main goal is to investigate the impact of codon usage preferences on the success of horizontal gene transfer and on post-transfer evolution. The results gathered will in particular help understand the role of codon usage preferences in shaping the routes of antibiotic resistance gene propagation. The project has a strong experimental component, including mutant collection characterization, experimental evaluation of diverse post-HGT compensatory mechanisms, experimental horizontal transfer and experimental evolution of the resulting populations, and will include exhaustive phenotypic and genomic bacterial characterisation. The experimental parts will be conducted on several bacteria species. The experimental core of the project will be completed by modelling and comparative approaches.

Scientific environment: The postdoc will work in the "Evolutionary Genetics and Ecology" team within the Centre for Functional and Evolutionary Ecology (CEFE), Montpellier, France. http://www.cefe.cnrs.fr/-fr/recherche/ee/gee The CEFE is the largest French institute for ecology and evolution. It gathers numerous recognized research groups, particularly in experimental evolution. It also hosts shared platforms with high-level equipment in microbiology, rearing facilities, molecular biology and ecological chemistry. The "Evolutionary Genetics and Ecology" team is a lively, dynamic and

stimulating working environment. The group is composed of 10 permanent researchers and 10 to 15 PhD students and postdocs working on a diversity of topics: reproduction system evolution, life-history trait evolution, mechanisms of adaptation, community evolution and antibiotic resistance evolution. Finally, Montpellier is a medium-size lively student city in the south of France, close to the Mediterranean Sea and to the Cevennes (medium mountain with lots of hiking, climbing, skiing opportunities).

Profile: We seek a motivated and enthusiastic scientist with a PhD degree in Evolutionary Biology and with knowledge and experience in experimental evolutionary microbiology and bacterial genetics, ready to perform large scale and long-term experiments involving different bacteria species. Experience in experimental evolution and bacterial genomics will be appreciated. Candidates should be fluent in written and oral English.

Application: Application with CV (including a publication list), a brief statement of research interests and contact information for two professional references should be submitted in an electronic form to Stéphanie Bedhomme (stephanie.bedhomme@cefe.cnrs.fr) before August 26th. The expected starting date is January 1st, 2017. The position is open for 2 years, renewable. The salary will depend on the past experience with a minimum net salary of 2040 euros. Do not hesitate to contact me for further details or questions.

Stéphanie Bedhomme CR CNRS Equipe "Génétique et Ecologie Evolutive" Centre d'Ecologie Fonctionnelle et Evolutive Montpellier

Tel: 00 33 (0)4 67 61 32 11

Stephanie.BEDHOMME@cefe.cnrs.fr

Norwich UK EvolutionaryGeneticsGenomics

Genome duplication, gene flow, and adaptation at the John Innes Centre

We seek big-question-oriented postdocs to join us to work on fundamental problems in evolutionary genomics. We offer a highly interdisciplinary environment with outstanding institutional support and funding.

Two ERC grants have just been won by the Yant lab and our very close collaborators, the Bomblies lab (also at JIC). This greatly enhances an ambitious programme in evolutionary genomics in Norwich. Additionally, we have many collaborations with diverse European groups, offering you outstanding potential for professional development. Current projects have an explicitly phenotype-first orientation, aiming to determine the genetic basis and evolutionary repeatability of adaptation to intense, quantifiable selection pressures, both environmental and intracellular. We do this by applying large-scale population genomics to wild plant populations that have evolved to overcome demonstrable hazards. We currently focus on adaptation to genome duplication as well as adaptation to highly challenging, quantifiable environmental stressors in species ranging from Arabidopsis arenosa, to Chamerion angustifolium, to Mimulus guttatus and back throughout the Brassicaceae to A. lyrata and A. thaliana. See http://yant.jic.ac.uk for more.

We strongly encourage applicants suggest project ideas that fit with these general aims and we are fully committed to helping successful applicants develop their ideas for the eventual formation their own independent research groups. Applicants with evolutionary genetic, computational, or molecular interests in adaptation are encouraged to apply. We seek candidates with initiative, analytical skills, and a drive to push forward on new problems in evolutionary genomics. Successful candidates will perform independent, novel analyses and will have demonstrated clear innovation during or following their PhD.

To begin a meaningful conversation, we ask that you include a cover letter and a statement that indicates which research topics in the lab you are particularly interested in, and why your qualifications make you a good fit with our research. This is an essential part of our shortlisting process and as such we are unable to progress applications without this element.

For further information and details of how to apply, please visit our web site, https://www.jic.ac.uk/-training-careers/vacancies/2016/07/postdoctoral-researcher1003083/ Salary on appointment will be within the range 30,500 to 37,500 per annum depending on qualifications and experience. This post is for a contract of 36 months.

Early application is encouraged, but the deadline for application is 30 August 2016.

If interested but wish to apply later, please contact levi.yant@jic.ac.uk

Levi Yant Project Leader John Innes Centre Norwich Research Park Colney Lane Norwich NR4 7UH United Kingdom

http://yant.jic.ac.uk "Levi Yant (JIC)" <Levi.Yant@jic.ac.uk>

Nuritas Bioinformatics

We are currently looking for applicants to apply for the Marie Sklodowska-Curie Actions (MCSA) Research Fellowship Programme. Both projects would require a bioinformatic background.

Dear members,

Nuritas are looking for two experienced researchers to apply for the prestigious Marie Sklodowska-Curie Actions (MCSA) Research Fellowship Programme.

Nuritas discovers novel disease modulating peptides that can be added to an array of health-benefiting consumer products, ultimately reaching billions of people around the world. The successful researchers will have the opportunity to work in a dynamic commercial research environment alongside a multidisciplinary scientific team.

Details of both project topics can be found under the Fellowships section here: http://goo.gl/VUIMxD Nuritas will be accepting applications until August 16, 2016. Note applicants cannot have been in the country of the host organisation (i.e. Ireland) for more than 3 of the past 5 years.

If you have any questions please feel free to email me at holton.therese@nuritas.com.

Many thanks, Therese

Sincerely, Therese Holton Scientific Writer Nuritas www.nuritas.com +353 (0)1 430 1290 holton.therese@nuritas.com https://-twitter.com/NuritasResearch Therese Holton <holton.therese@nuritas.com>

OxfordU MicrobialGenomics

Postdoctoral Scientist in Statistical Genomics/Microbial Bioinformatics

Modernising Medical Microbiology (MMM) consortium, University of Oxford

Applications to be received by 12pm on Monday 5th of September 2016

Grade 7: 30,738 - 37,768 p.a.

We are seeking a Statistical Genomics postdoctoral Scientist with experience in microbial bioinformatics to join an established multi-disciplinary team as part of the Modernising Medical Microbiology (MMM) consortium (http://modmedmicro.nsms.ox.ac.uk/). This post provides an opportunity to join an exciting new project investigating antimicrobial resistance in environmental, human (clinical and non-clinical) and animal reservoirs.

In this post, you will investigate the best approaches to process sequence data (short- and long-read; including 1000 PacBio genomes and 180 metagenomic datasets) and to develop and apply statistical methods to examine gene flow of antibiotic resistant genes across sampling niches. You will develop sequence assembly and statistical analysis methods, maintain databases of resistance-conferring variants in Enterobacteriaceae, investigate mobile genetic elements and disseminate the findings.

You will hold a PhD degree in statistical genomics, evolutionary biology, statistics or a related subject with experience in whole genome sequence analysis. You will have experience with programming, including familiarity with statistical packages such as R. You will have strong communication skills with a proven ability to disseminate your ideas in fluent English, together with an enquiring and flexible attitude and an interest in working collaboratively with researchers from different disciplines.

The post is full-time and fixed-term until 31 May 2019 in the first instance.

Applications for this vacancy are to be made online. You will be required to upload a supporting statement and CV as part of your online application. Applications from candidates who have not yet completed their PhD may be considered, and would be appointed at Grade 6 (27,328 - 32,600 p.a.) with amended duties and responsibilities.

Only applications received before 12.00 midday on Monday 5 September 2016 will be considered. Interviews are expected to take place on Thursday 8 September 2016.

Contact: HR Officer (01865 221325) Informal enquiries to daniel.wilson@ndm.ox.ac.uk or nicole.stoesser@ndm.ox.ac.uk

For further details, please also view: http://-www.ndm.ox.ac.uk/current-job-vacancies/vacancy/-124902-Postdoctoral-Scientist-in-Statistical-Genomics/-Microbial-Bioinformatics daniel.wilson@ndm.ox.ac.uk

PurdueU ConservationBiol

Purdue UniversityÂ¹s Department of Forestry and Natural Resources seeks candidates for 1-2 post-doctoral positions for its annual recurring competition for post-doctoral scholars in natural resources science or management. The department has a broad environmental scope with nationally ranked doctoral programs, emphasizing interdisciplinary approaches across a spectrum of research areas including ecology, genetics, forest biology, forest measurement and assessment/GIS, wood products, wildlife, fisheries and aquatic sciences, and natural resources social science (www.ag.purdue.edu/-fnr). Departmental faculty members actively participate in interdisciplinary initiatives including the Center for Advanced Manufacturing, Center for the Environment, Purdue Water Community, Purdue Interdisciplinary Center for Ecological Sustainability, Hardwood Tree Improvement and Regeneration Center, Center for Global Soundscapes, Center for Regional Development, Purdue Climate Change Research Center, Illinois-Indiana Sea Grant, and the Natural Resources Development Institute. Requirements for the position(s) include a Ph.D. in natural resources or related discipline, evidence of initiative, independence, and productivity, and a commitment to conservation of natural resources. The program is open to U.S. and non-U.S. citizens. Positions will be 2-year appointments at a salary of $47,480, plus benefits and a discretionary fund of $5,000/year in addition to any research funds that are provided by mentors. Application Process: Before applying, interested individuals should contact prospective postdoctoral mentors in the department to discuss project ideas. A list of faculty mentors is available at https://ag.purdue.edu/fnr/-Pages/dirpostdocprgrm.aspx .Mentoring may be sought from individual faculty or by faculty teams, whichever is more appropriate to successfully conduct the proposed work.

To apply to the Natural Resources Scholars program candidates must submit a) names of one or more faculty who have agreed to serve as mentors for the proposed project, b) a curriculum vitae, c) a proposal describing the work to be undertaken, d) two letters of reference, and e) a 1-page statement of support from the proposed mentor(s). Materials should be submitted as PDF files via email to mmann@purdue.edu with the subject line 'Application: Postdoc Scholars in Natural Resources'. Letter writers should submit their recommendations directly using the email address above. The deadline for receiving completed applications is 15 October 2016.

Applicants may propose projects that complement, extend, or synthesize existing efforts and interests of the faculty. The proposal should identify the issue to be addressed, summarize the current level of knowledge as it relates to the issue, describe the objective(s) of the proposed work, provide the study design and methods used to meet the objective(s), explain expected results and deliverables, and highlight their scientific and broader significance. The proposal is limited to a 300-word summary page and three (3) single-spaced pages, not including references, using one-inch margins and a minimum 11-point standard font.

Applications will be judged on overall quality including prior performance, support letters, and the scientific and technical merit and feasibility of the proposal. For additional information, please contact Douglass Jacobs, Fred M. van Eck Professor and Associate Department Head of Research (djacobs@purdue.edu). Purdue University is an equal opportunity/equal access/affirmative action employer fully committed to achieving a diverse workforce.

J. Andrew DeWoody Professor of Genetics and University Faculty Scholar Depts. of Forestry & Natural Resources and Biological Sciences Purdue University West Lafayette, IN 47905 765-496-6109

"DeWoody, James Andrew" <dewoody@purdue.edu>

ReedC Oregon ComputationalBiology

Post-doctoral Researcher Position in Computational Biology

A post-doc position in computational biology (initial contract for 1 year, with the possibility of renewals annually based on performance) is available in the lab of Sarah Schaack at Reed College in Portland, OR.

Details: I am searching for a post-doc who will be involved in the analyses of genomic datasets for several ongoing projects, as well as the opportunity to initiate new projects based on the previous experience of the successful applicant, the resources in our lab, and publicly-available data. New projects can relate to mutation, transposable element dynamics, and/or genome evolution. Current projects involve analyzing

recently generated whole genome sequence and transcriptome data for a lepidopteran crop pest and other arthropods, long-term mutation-accumulation experiments using cladocerans, and more. More information on the specific projects, as well as opportunities for independent projects, collaborative work, participation in outreach activities, and travel will be discussed in more depth with shortlisted candidates.

Requirements: Experience with analyzing NGS sequence data, programming, and a working knowledge of computational tools and statistics related to genome-wide datasets. In addition to a background in sequence analysis and computational biology, oral and written communication skills are required.

Reed is a highly rigorous undergraduate institution with a strong research emphasis, which offers a unique training environment for post-docs. Features include close collaboration with the PIs, the opportunity to work with talented undergraduates, and the chance to network with other post-docs in the department and with biologists throughout Portland and the region. The scientific and intellectual environment at Reed is stimulating and provides a number of opportunities for interactions (including an excellent weekly seminar series, journal clubs, and discussion groups).

Salary will be based on the NIH post-doc pay scale and will be commensurate with experience. To apply, submit a cover letter detailing your research interests, a CV, and contact information for 3 references to schaack@reed.edu with your LAST NAME in all caps in the subject line. To receive full consideration, send materials on or before Oct 10, 2016, however applicants will be considered until the position is filled.

Reed College is an Equal Opportunity Employer. Candidates from underrepresented groups are strongly encouraged to apply.

Sarah Schaack, PhD Associate Professor Reed College schaackmobile@gmail.com https://-sites.google.com/site/schaackwork/ Sarah Schaack <schaackmobile@gmail.com>

RoyalBotGardens Edinburgh TropicalBiodiversity

Applications are invited for a 3 year fixed term postdoctoral position at the Royal Botanic Garden Edinburgh in spatial ecology, SDMs, phylogenetics and taxonomy. The position is a fixed ferm for 36 months, available from Jan 2017 with a salary c. 31,000 p.a.

The post is part of "Nordeste - new science for a neglected biome" project funded by NERC-FAPESP Newton Fund. The project focuses on characterising the biodiversity and ecosystem functioning of the neglected and threatened dry forests of northeastern Brazil known as the caatinga. It comprises a broad range of work packages involving several UK and Brazil institutions. This postdoctoral position will lead data-gathering, field work and analyses of the biodiversity work package run by RBGE.

The study area covers all northeastern Brazil. The biodiversity work package aims to model species diversity across the entire region using taxonomic, phylogenetic and functional data, and integrating these findings with other cross-disciplinary work packages that focus on the ecological function of dry forests. The postdoc will lead the analytical work and in play an important role in integrating the results across the multidisciplinary project. The postdoc will also lead in fieldwork, field training, and engaging with the public and the policy sector in Brazil.

The biodiversity work package of the project aims to:

§Model taxonomic, functional and phylogenetic plant species diversity across northeast Brazil;

§Project current models under future climate scenarios;

§Delimit biologically meaningful ecoregion maps for the area using boundary delineation methods;

§Identify areas at highest risk of losing taxonomic, functional and/or phylogenetic diversity under climate and land use change scenarios

§Coordinate plant specimen and DNA voucher collecting in the field in newly established plots;

§Identify all plant voucher specimens (all plants, not just woody);

§Produce a community phylogeny for all woody species found in plots;

§Investigate presence of cryptic diversity in 30 caatinga plant species complexes.

You will have a completed or soon to be completed (by start of the post) PhD in a related field in ecology, evolutionary biology, and/or taxonomy. You will need to have a broad, interdisciplinary interest in these three fields, proficiency in R (preferably in spatial, ecological and phylogenetic analyses), good skills in quantitative scientific methods, knowledge of Species Distribution Modelling algorithms, strong data management skills, experience in co-ordinating collaborative groups across

countries and cultures, and a track record of publications.

Experience in tropical field work, molecular phylogenetic and functional trait data analyses, science communication to the public and policymakers, skills in plant identification and taxonomy, and ability to speak Portuguese and/or Spanish will be beneficial.

The work will be based in Edinburgh although you will work closely with all partners involved in the project in Brazil and across the UK.

A full can be downloaded from http://www.rbge.org.uk/-about-us/vacancies .Informal enquiries should be made to Prof Toby Pennington (t.pennington@rbge.ac.uk; +44 (0)131 248 2818) and Dr Tiina Särkinen (t.sarkinen@rbge.ac.uk, +44 (0) 131 248 1030).

Interested applicants should send a CV and covering letter, outlining the skills and experience they could bring to the post, as well as a completed equal opportunities form (downloadable from the RBGE website) recruitment@rbge.org.uk or to the HR department, The Royal Botanic Garden Edinburgh, 20a Inverleith Row, Edinburgh EH3 5LR by *5pm GMT on Wednesday, 31st August 2016.*

If you have not heard from us within three weeks of the closing date, please assume that your application has not been shortlisted.

Tiina Sarkinen <sarkinentiina@gmail.com>

SantaFeInstitute OmidyarFellowship

The Santa Fe Institute is multidisciplinary research institute www.santafe.edu and would welcome evolutionary biologists, we have several postdocs along with our new President David Krakauer from that discipline. http://www.santafe.edu/about/people/group/-postdoctoral-fellow The Omidyar postdoctoral fellows are free to choose any research project of their choosing and is unique amongst postdoctoral fellowships.

We will be accepting applications online for the 2017 Cohort beginning 8 August and ending 30 October, 2016. Candidate interviews will be conducted in late January 2017 in Santa Fe, NM.

The Omidyar Fellowship at the Santa Fe Institute is unique among postdoctoral appointments. It offers select early-career scholars the opportunity to join a collaborative research community that nurtures creative, transdisciplinary thought in pursuit of key insights about the complex systems that matter most for science and society. The Omidyar Fellowship at the Santa Fe Institute offers you:

- transdisciplinary collaboration with leading researchers worldwide - up to three years in residence in Santa Fe, New Mexico - discretionary research and collaboration funds - competitive salary and generous benefits - a structured leadership training program - unparalleled intellectual freedom

The Institute has no formal programs or departments. Research is collaborative and spans the physical, natural, and social sciences. Most research is theoretical (SFI does not have lab facilities) and/or computational in nature, although some research includes an empirical component. SFI averages 18 postdoctoral fellows, 14 resident faculty, 100 external faculty, and 250 visitors per year. SFI's research themes and interests of its faculty and current fellows can be found at http:/-/www.santafe.edu/research . As thought leaders who shape the future of science, Omidyar Fellows participate in a provocative training program structured to develop leadership skills throughout their three-year residencies and beyond. The program focuses on sustained mentoring relationships with SFI resident and external faculty, skill development workshops, off-campus research and teaching experiences, and the variety of scholarly leadership and science management opportunities at SFI.

Requirements:

- a Ph.D. in any quantitative discipline (granted within 6 years of the application deadline or expect to receive one by September 2017) - strong computational and quantitative skills - an exemplary academic record - a proven ability to work both independently and collaboratively - a demonstrated interest in multidisciplinary research - evidence of the ability to think outside traditional paradigms Applications are welcome from:

- candidates from any country - candidates from any quantitative discipline - women and members of underrepresented groups are encouraged to apply

SFI is an Equal Opportunity Employer.

Application Materials:

Interested candidates must submit the following:

Curriculum vitae (including publications list).

Statement of research interests (max. 2 pages) including a short description of the research you would like to pursue and why.

Description of interest in SFI (max. 1 page) that describes your potential contribution to the SFI commu-

nity and also explains the potential impact of SFI on your research. Consider addressing one or more of the following: What kind of input from other fields would most improve your future research? What type of multidisciplinary workshop might you want to organize during your Fellowship? What aspects of your present or future research are difficult to pursue in a traditional academic environment?

Three letters of recommendation from scholars who know your work. (The letters should be sent independent of the application. When you complete the online application, please be prepared to provide e-mail addresses of the three individuals who will recommend you. SFI will contact them directly with instructions for submitting letters.) (Optional) A copy of one paper you have written in English, either published or unpublished.

To apply: Applications for the 2017 Omidyar Fellowships will be accepted on line from August 8th until October 30th, 2016. APPLY HERE < https://-sfiomidyar.fluidreview.com/ > Inquiries: email to ofellowshipinfo@santafe.edu

Hilary Skolnik Program Manager, Postdoctoral Fellows Program Santa Fe Institute Tel: (505) 946 3643 hilary@santafe.edu

Hilary Skolnik <hilary@santafe.edu>

Smithsonian ForestGeneticVariation

Link: http://www.forestgeo.si.edu/article/247/ Postdoctoral position in Forest Ecology and Genetics The lab of Sean McMahon at the Smithsonian Environmental Research Center is looking for a postdoctoral researcher in forest ecology.

This position is funded by an NSF grant to Sean McMahon, Nate Swenson at the University of Maryland, and Stuart Davies, at the Smithsonian Tropical Research Institute. The project investigates genetic variation in tree growth with an interest in linking climate, demography, functional traits, transcriptomes and ecosystem processes in two temperate forests. The position will be located at the Smithsonian Environmental Research Center in Edgewater Maryland in the new Mathias Research Laboratory. The position will collaborate closely with the Swenson lab and the CTFS-ForestGEO research network (http://www.forestgeo.si.edu). Further information about the McMahon lab can be found at http://forestecology.org . The ideal candidate will meet the following criteria: * PhD in ecology and evolutionary biology, or similar background * Excellent quantitative skills * Good publication record in ecology and/or evolutionary biology * Good scientific writing skills and communication skills * Ability to work in a multidisciplinary research team Additionally, we are looking for candidates that also demonstrate the following: * Knowledge of forest systems * Knowledge or understanding of modern genetic methods (i.e. transcriptomics, sequence capture, and/or population genomics). * Advanced programming skills in R * Experience in field work Appointment This postdoc position will begin as soon as December 2016, but the start date can be flexible. Initial appointment is for two years, and is potentially renewable. Salary starts at 48K with benefits.

How to apply: send a single PDF file containing a cover letter, CV, contact information for three references, and two relevant publications or manuscripts to KrizelL@si.edu with "SERC Postdoc Position" in the subject line. Review of applications will begin on September 15th, 2016, and continue until the position is filled.

Please contact Sean McMahon at mcmahons@si.edu with any questions.

Lauren Krizel Program Assistant Center for Tropical Forest Science - ForestGEO Smithsonian Institution | Washington, DC krizell@si.edu | +001 202 633 0666

"Krizel, Lauren" <KrizelL@si.edu>

SpelmanCollege EvolutionaryGenetics

The Kovacs lab at Spelman College invites applications for a research and teaching post-doctoral position in evolutionary and ecological genetics. This is a unique position combining both directed research experience on an NSF-funded research project and mentored teaching experiences at a liberal arts college. The Kovacs lab is currently studying horizontal gene transfer in arthropods and is using a combination of computational and wet lab approaches to understand the effects of ecologically relevant functional genes on arthropod evolution. Additionally, the fellow will have multiple opportunities to work with Spelman faculty and students both in and out of the classroom during the duration of their fellowship.

Applicants must be committed to a career in teach-

ing and research. Experience working with underrepresented groups and interest in the scholarship of undergraduate teaching and learning are highly valued.

Interested applicants should contact Jennifer Kovacs directly at jkovacs@spelman.edu for more details.

Jennifer Kovacs, Ph.D.

Assistant Professor of Biology Spelman College

Atlanta, GA 30030

jkovacs@spelman.edu

Jennifer Kovacs <alfred.r.wallace@gmail.com>

TrentU CaribouPopDynamics

Post-Doctoral Fellow (PDF) in Population & Demographic Dynamics of Boreal Caribou

A collaborative research program on caribou conservation is seeking a researcher with strong quantitative skills to complement a research team examining population and demographic parameters of Canadian boreal caribou. This project is a partnership between academic, federal and provincial government agencies and the private sector and builds on a multi-year dataset. The PDF will use project data from 1000s of non-invasively genetically profiled specimens to examine the 1) application of different capture-mark-recapture (CMR) models (e.g. spatial, open/closed); 2) estimation of effective population size (Ne) and Ne/N ratios; and reconstruct fine-scale pedigree/familial relationships; and 3) Survey candidate genes from genome-wide surveys in assessing gene-to-fitness relationships in reproducing caribou within characterized populations. This position is funded in part by an NSERC CREATE grant on Advanced Environmental Technologies (ADVENT) (www.create-enviro.ca). The PDF will be expected to take a leadership role in coordinating a team of graduate and undergraduate students and liaise with project partners. The salary is targeted for $40,000/year + benefits and the position will be filled as soon as a suitable candidate is found. Applicants should submit a CV, a statement of research interests, and the names and contact information for three references.

Please submit applications to:

Dr. Paul J. Wilson Canada Research Chair in DNA Profiling, Forensics & Functional Genomics Trent University, 1600 West Bank Drive, Peterborough, ON, K9J7B8 Phone 705.748.1011 ext. 7259; Fax 705.748.1003 Website: www.wilsoncrcresearch.ca pawilson@trentu.ca

or

Dr. Micheline Manseau Wildlife Ecologist, Office of the Chief Ecosystem Scientist Parks Canada 30 Victoria St, Gatineau, QC. J8X 0B3 Phone: 819-635-3287 Micheline.Manseau@pc.gc.ca

Jillian Lalor <jillianlalor@trentu.ca>

UAmsterdam EvolReproductiveTraits

PhD candidate, Population Biology

University of Amsterdam

The Institute for Biodiversity and Ecosystem Dynamics (IBED: ibed.uva.nl) at the University of Amsterdam invites applications for a Post Doc in Population Demographic/Integral Projection Modelling in the DynaMite Group led by Isabel Smallegange (http://www.uva.nl/-profile/i.smallegange). The goal of this Post Doc position is to develop a quantitative framework for understanding how sexual and natural selection affect the evolution of reproductive traits. To this end the Post Doc will develop integral projection models that incorporate individual heterogeneity in alternative reproductive tactics to model the eco-evolutionary population-level consequences of changes in resource competition and male-male competition. In collaboration, model predictions will be tested against empirical data collected by other members within the group, and within and outside of the IBED.

The project can start November-December 2016. The full-time appointment will be on a temporary basis for a maximum period of two years (12 months plus a further 12 months after a positive evaluation). Depending on experience, the full-time gross monthly salary will be between 2,522 and 4,028 (salary scale 10). The Collective Labour Agreement Dutch Universities is applicable. The annual salary will be increased by 8 % holiday allowance and 8.3 % end-of-year bonus. The Collective Labour Agreement for Dutch Universities is applicable.

Requirements: A PhD degree in ecology, evolution or population biology; good computer skills; those with experience with population models (matrix and integral projection models) and knowledge of Matlab are preferred; experience in linking theory and data; strong

publication record (normalised by time to or since PhD graduation); willingness to work in a multidisciplinary environment as the work relies heavily on collaborations with other researchers of the DynaMite Group and of other research groups within and outside of the IBED; while this is primarily a research position, the successful candidate will be expected to also make a contribution to teaching tasks at the IBED in subjects relevant to the candidate's research activities.

Applications should include (1) a cover letter describing motivation and research interests, and (2) a detailed CV including educational experience, a list of publications, and the names and contact addresses of two academic references from which information about the candidate can be obtained. Please combine these materials into a single PDF file using your surname as file name, e.g.: Smith.pdf. Applications should be sent before 23 September 2016 to application-science@uva.nl. Please quote vacancy number 16-406 in the subject field. Interviews, possibly via Skype, will be held on 17 and/or 19 October 2016.

Dr Isabel Smallegange Assistant Professor Institute for Biodiversity and Ecosystem Dynamics University of Amsterdam P.O. box 94248 1090 GE Amsterdam The Netherlands

I.Smallegange@uva.nl

"Smallegange, Isabel" <I.Smallegange@uva.nl>

UBristol EukaryoticOrigins

A 3-year postdoctoral research position is available in the lab of Dr. Tom Williams (Palaeobiology Research Group) at the University of Bristol, UK. The project is a collaboration between Dr. Williams and Dr. David Bass (Natural History Museum, London) aimed at rooting the eukaryotic tree of life and reconstructing the gene content, metabolism and cell biology of the ancestral eukaryote. The project is multi-disciplinary, and will involve both molecular biology fieldwork (sampling, isolation and single-cell sequencing of new early-branching eukaryotes) and bioinformatics (genome assembly, phylogenetics and comparative genomics).

The ideal candidate will have demonstrated skills in one or both of these areas, a track record of publishing excellent research in high-quality journals, and a passion for evolutionary biology. Fieldwork will involve environmental sampling during overnight/several day trips to aquatic sites in the south of England. The computational analyses will require good statistical skills, familiarity with a Unix environment, and proficiency in a programming language such as Python, R, C++, or similar.

This is a full-time postdoctoral position starting at 31,656 per annum, with annual increments. The projected start date is October 2016, although some flexibility is possible.

For informal enquiries regarding this role, please contact Dr Tom Williams (tom.a.williams@bristol.ac.uk)

Tom Williams <tom.a.williams@bristol.ac.uk>

UBristol EvolutionaryTheoryOutgroupConflict

A 3-4 year PDRA position in the School of Biological Sciences, University of Bristol is available to join Professor Andy Radford's research team funded by a European Research Council Consolidator Grant.

www.bristol.ac.uk/jobs/find/-details.html?nPostingIdI31&nPostingTargetId3&id=Q50FK026203F3V

The overall project will consider behavioural, physiological, reproductive and evolutionary consequences of out-group conflict, using both empirical and theoretical approaches. This specific role will focus on the development of mathematical and/or computational modelling to consider evolutionary consequences relating to, for instance, post-conflict affiliation and aggression, within-group cooperation, societal structure, and weaponry. The role will entail analytical and state-dependent modelling, evolutionary simulations and phylogenetically controlled meta-analyses; the exact nature and direction of the role depending on the expertise and interests of the successful candidate. The post holder will also interact extensively with other team members, who will be focusing on empirical data collection from fish, dwarf mongooses and humans, integrating real-world data into models and generating testable predictions.

The successful candidate will have, or expect to hold shortly, a PhD in a relevant biological or quantitative subject, a strong interest in social conflict, and extensive experience of mathematical or computational modelling. They will be highly motivated, collaborative and an excellent communicator (with respect to both writing and oral presentations), and have a demonstrable desire

to learn new skills.

Further details are available via the URL given above.

Tim Fawcett <tim.fawcett@cantab.net>

UCalifornia LosAngeles OakGenomics

Post doc opening: UCLA Adaptation genomics of oaks We have a post-doc opening to join a research team studying the genomics of valley oak through a project funded by the NSF Plant Genome Research Program. The overall goal of the project is to provide a complete, high-quality sequence of the valley oak genome with structural and functional annotations of genic regions and repetitive elements. The postdoc for this position will play a major role in the annotation component of the project by focusing on genes associated with local adaptation and response to climate change. In particular, the post-doc will design gene expression experiments that utilize to greenhouse, growth chambers, and two common gardens of ca.7000 trees planted at two sites maintained by the US Forest Service. The post-doc should be willing to assist in outreach projects and/or student training.

The post-doc will work in the laboratory of Victoria Sork at UCLA and join a collaborative multi-institutional team that includes Steven Salzberg (Johns Hopkins University Center for Computational Biology), Matteo Pellegrini (UCLA Institute of Quantitative and Computational Biosciences), and Paul Gugger (University of Maryland Center for Environmental Sciences, Appalachian Laboratory). For more details of the project see the valley oak genome project website: valleyoak.ucla.edu.

The applicant should possess a PhD or equivalent in the biological sciences, preferably with empirical, analytical or bioinformatics training in molecular or evolutionary genetics. Previous experience in molecular techniques, next-gen sequence analysis, and variant calling are preferable. Candidate should have a research track record with relevant publications in peer-reviewed journals. Interest in plant evolutionary biology or evolutionary genomics of local adaptation is desirable.

This position will begin January 2017 (flexible), and with possibility of renewal, based on performance. Applicants should email their CV, pdf's of 3 publications, statement of research interests, and email information for three referees to sorklab@gmail.com. Cover letter should include a short personal statement describing your research experience and interests that would match this project. Please also include any outreach activities or other broader impacts associated with your previous research or education.

Review of applications will begin September 1, 2016 and continue until position is filled. For informal queries, please contact Victoria Sork by email, vlsork@ucla.edu 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.

"Sork, Victoria" <vsork@college.ucla.edu>

UCalifornia Merced ConservationGenomics

Conservation Genomics Postdoc

Under the University of California, President's Office Catalyst program, a three-year award has been made for 1.75 million dollars to establish a conservation genomics network among 6 campuses. The goal of the program is to support research, develop new analytical tools, educate graduate and post-graduate students via workshops, and interface with conservation managers and planners as well as the general public.

We have support for a two-year post-doc beginning January 2017 (start date is flexible for the right candidate) at the University of California, Merced to work on (1) adaptation to seastar wasting disease and (2) conservation and adaptation to vernal pools in invertebrates and plants. We are looking for a researcher with keen interest in conservation genetics and with experience in relevant wetlab protocols and strengths in bioinformatics. The postdoc also will liaise with other conservation genetics network members (https://-ucconservationgenomics.eeb.ucla.edu/affiliations/) and assist in project workshops and the educational mission of the program. Interested researchers should have a recent PhD and contact mdawson@ucmerced.edu & jsexton2@ucmerced.edu. Please send a one-page project plan, CV, and cover letter with brief discussion of qualifications and goals.

Deadline for applications: 18 September 2016.

More information is available at: https://-

ucconservationgenomics.eeb.ucla.edu/projects/ochre-seastar/ https://ucconservationgenomics.eeb.ucla.edu/-positions/hiring-postdocs/ PIs for the projects are: Mike Dawson -:- http://mnd.ucmerced.edu Jay Sexton -:- http://sextonlab.ucmerced.edu dawson.mn@gmail.com

UCambridge MicrobialGenomeReduction

University of Cambridge. The funds for this post are available for 3 years in the first instance.

Applications are invited for a postdoctoral position to start from 1 January 2017 or as soon as possible after this date on a project aiming to understand the link between reductive genome evolution and pathogenicity in bacteria.

The main focus of the research will be testing the many competing hypotheses about why pathogens have smaller genomes than their non-pathogenic relatives. This will be done using the model system Streptococcus suis, which has evolved pathogenicity in concert with reductive evolution multiple times over recent timescales. This post will be based in Cambridge led by Dr Lucy Weinert, with opportunities to develop independent projects and to collaborate with Oxford University's Clinical Research Unit in Vietnam, Huazhong Agricultural University in China, the US Department of Agriculture, Public Health Ontario and Wageningen University. The project will use genome sequencing data and tools from evolutionary genetics and systems biology in the first instance but could also involve the use of laboratory experiments depending on the applicant's strengths.

Applicants should have a PhD in evolutionary biology, microbiology, computational biology or a related discipline. Desirable skills will be experience with next generation sequencing data, microbiological laboratory practice and programming skills in Unix, python and R. A good understanding of systems biology, bacterial genomics and evolutionary genetics would be an advantage. The candidate must value teamwork and collaboration, and have good administrative and interpersonal skills.

Closing date: 29 September 2016

Interviews will be held on: 13 October 2016

To apply online for this vacancy, please click on the 'Apply' button below. This will route you to the University's Web Recruitment System, where you will need to register an account (if you have not already) and log in before completing the online application form.

To submit an application for this vacancy, please visit the vacancy pages on the following website: http://-www.jobs.cam.ac.uk/ This will route you to the University's Web Recruitment System, where you will need to register an account (if you have not already) before completing the online application form. Further particulars for the role and information about the Department www.vet.cam.ac.uk . Applicants should submit a CHRIS/6, CV, covering letter outlining suitability for the role and contact details for two references. If you upload any additional documents which have not been requested, we will not be able to consider these as part of your application.

Please quote reference PP09938 on your application and in any correspondence about this vacancy.

The University values diversity and is committed to equality of opportunity.

Lucy Weinert <lucy.weinert@googlemail.com>

UCLondon ComputationalBiologist

UCL - Faculty of Life Sciences, Division of Biosciences - Research Department of Genetics, Evolution and Environment

Research Associate

Full Time

The appointment will be on UCL Grade 7. Salary range: 33,686 - 36,522 per annum, inclusive of London Allowance.

>From autumn 2016, a postdoctoral research position is available in the Telford lab for a computational biologist to work on the development of a novel genetic technology to trace complete cell lineages in Drosophila . The technology developed will ultimately have potential applications in embryology, cancer and stem cell biology and will be applicable to other species or to cell lines. This is a highly collaborative project funded by the HFSP and will involve working alongside the labs of Michalis Averof (Lyon, France) and Je Hyuk Lee (Cold Spring Harbor, USA).The PDRA will be the principal bioinformatician for this project and will lead the computational aspects of the research. S\he will work closely with members of the other teams to simulate the experiments in order to optimise design; develop

methods for accurately gathering data from microscopic images; develop tools for interpreting and visualising the data produced (relating lineages to cells and ultimately understanding developmental processes).The successful candidate will be encouraged to develop new research directions and collaborations aligned with the lab interests and activities. Furthermore, s/he will be embedded in the vibrant research community of GEE and UCL, which will provide additional mentorship and training activities.This post is funded for 36 months in the first instance and is available from September 2016 or soon thereafter.

The successful candidate must hold (or be close to obtaining) a PhD degree in relevant subject area and have strong computational biology skills and knowledge of research techniques. Demonstrable comprehensive knowledge in aspects of the subject area as well as proven ability to analyse and write up data is essential. The post holder must also demonstrate commitment to high quality research and ability to work both collaboratively and independently. Please note: 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 29,485 - 31,091 per annum) with payment at Grade 7 being backdated to the date of final submission of the PhD thesis (including corrections).

For further details about the vacancy and how to apply online please go to http://www.ucl.ac.uk/hr/jobs/ and search on Reference Number 1571684

For informal queries on the role please contact Professor Max Telford at m.telford@ucl.ac.uk. For any queries regarding the application process, please contact Biosciences Staffing team on biosciences.staffing@ucl.ac.uk and quote the reference 1571684 .

Closing Date: 11 September 2016

Latest time for the submission of applications: .

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/ >

m.telford@ucl.ac.uk

UCollege London Microbial genomics

Postdoc: genomics of antimicrobial resistance in Gram-negative bacteria

The UCL Genetics Institute (UGI) is looking to appoint a Postdoctoral Research Associate on a collaborative project between the UK and China to monitor and mitigate the emergence and transmission of antimicrobial resistance of Gram-negative bacteria in China. The project builds on the analysis of ~1,000 newly sequenced high-depth PacBio reference genomes of drug resistant Gram-negative bacterial strains from China.

The successful applicant will run large-scale bioinformatics analyses and computational analyses to identify mutations involved in antimicrobial drug resistance and contribute to the development of novel methodological tools to estimate horizontal gene transfer of antibiotic resistance elements in bacteria. The post-holder will work in collaboration with a dynamic, multidisciplinary team of scientists in the UK (London, Cambridge and Edinburgh) and China (Beijing and Shandong).

This post is funded until 30th June 2019 in the first instance and is available immediately. The appointment will be on UCL Grade 7. The salary range will be £33,686 - £40,716 per annum, inclusive of London Allowance. The successful candidate must hold (or be close to obtaining) a PhD degree in relevant subject area and have proven knowledge of bioinformatics and computational genomics methods.

Applicants should apply online to the UCL Human Resources site: < https://atsv7.wcn.co.uk/search_engine/-jobs.cgi >.

For informal queries on the role please contact Professor Francois Balloux at f.balloux@ucl.ac.uk . For any queries regarding the application process, please contact Biosciences Staffing team on biosciences.staffing@ucl.ac.uk and quote the reference 1568849.

Closing Date: 30 August 2016

"Balloux, Francois" <f.balloux@ucl.ac.uk>

UEasternFinland HymenopteranEvolution 2

Link to full job ad: http://www.uef.fi/en/uef/en-open-positions We are now inviting applications for the position of a

Postdoctoral Researcher in Hymenopteran Phylogenomics and Diversification

A postdoctoral position for 1+2 years is available at the University of Eastern Finland, Department of Environmental and Biological Sciences (Joensuu campus).

We are looking for a highly motivated person to conduct research on the macroevolutionary history of the hyperdiverse insect order Hymenoptera (sawflies, bees, wasps, ants, and parasitoids) in a new research project funded by the Academy of Finland.

The main duties of the Postdoctoral Researcher will be to:

- Develop protocols for successful DNA extraction and next-generation sequencing from insect museum specimens.

- Perform large-scale phylogenomic analyses of diverse hymenopteran groups using data collected by targeted capture and sequencing of ultraconserved elements (UCE's).

- Conduct statistical analyses of ecological trait evolution, phylogeography, and factors influencing diversification rates within the Hymenoptera, with a focus on the ancestrally plant-feeding (sawfly) lineages.

- Publish the results as high-quality articles in leading international scientific journals.

In addition to a suitable doctoral degree, the ideal candidate has a promising publication record and experience with the aforementioned laboratory and data-analysis techniques, but applicants possessing related skills and a proven ability to learn quickly will also be considered.

The work will be performed mainly in the Joensuu Molecular Ecology Group (www.jmeg.fi), which operates at the Department of Environmental and Biological Sciences of the University of Eastern Finland (www.uef.fi/en/envbio). Part of the laboratory work will be done during extended research visits to the laboratories of Brant Faircloth (Louisiana State University; www.faircloth-lab.org) and Niklas Wahlberg (Lund University; www.biology.lu.se/niklas-wahlberg). The project also includes extensive collaboration with an international network of experts on hymenopteran taxonomy, biogeography, and ecology.

The position will first be filled for one year, with a possibility for prolongation for two more years. The continuation of the position will be agreed separately. The start date of the position is 1 September 2016 or as agreed.

The salary of the position is determined in accordance with the salary system of Finnish universities and is based on level 5 of the job requirement level chart for teaching and research staff (euro2.865,30/ month). In addition to the job requirement component, the salary will include a personal performance component, which may be a maximum of 46.3% of the job requirement component.

The electronic application should contain the following appendices:

- Full CV, including names and contact details of two references

- list of publications

- copies of the applicant's academic degree certificates, and copies of certificates relating to the applicant's language proficiency, if not indicated in the academic degree certificates

- cover letter explaining past research, future interests, and motivation for applying for the position (max. 2 pages).

The application needs to be submitted no later than August 15, 2016 (by 24.00 hours Finnish time) by using the electronic application form (link below).

Link to full ad and electronic application form:

http://www.uef.fi/en/uef/en-open-positions Direct link to full ad:

https://www.saimanet.com/-certiahome/open_job_view.html?id=-3D00002551&did=3D5600&lang=en&jc=-16&nav_from_open_jobs_view_new=true Tommi Nyman

Department of Environmental and Biological Sciences University of Eastern Finland P.O. Box 111 FI-80101 Joensuu Finland

Phone: +358 40 520 6540 (mobile) E-mail: Tommi.Nyman@uef.fi Homepage: www.jmeg.fi Tommi

Nyman <tommi.nyman@uef.fi>

UEdinburgh EvolutionaryGenetics

Postdoctoral position in evolutionary genetics

Institute of Evolutionary Biology, University of Edinburgh

A postdoctoral position is available to work on a newly funded ERC project to Peter Keightley (Institute of Evolutionary Biology, University of Edinburgh, UK) and Diethard Tautz (Max Planck Institute for Evolutionary Biology, Ploen, Germany) ?DENOVOMUT ? An integrated approach to understanding the impact of de novo mutations on the mammalian genome?. The theme of this 5 year project is the consequences of the input of new, spontaneous mutations for genomic and quantitative variation in mammals. We are seeking a Postdoc interested in working in two areas of evolutionary genomics:

1. The causes of variation in nucleotide diversity across the genome within populations and between species, including populations of wild mice and related species as model mammalian systems.

2. To characterize and quantify the spontaneous mutation process in murid rodents by genome sequencing of related individuals recently sampled from the wild.

The Postdoc will also have the opportunity to work on another related component of the project, the long term consequences of spontaneous mutation for quantitative, life history and behavioural traits and for genomic variation in highly replicated spontaneous mutation accumulation experiments with inbred mouse lines.

Applicants should have or will shortly obtain a PhD in a relevant subject, which could be population genetics, evolutionary genetics, molecular evolution or quantitative genetics.

Within the project, there will be opportunities to develop independent lines of research related to evolutionary genomics with a view to establishment as an independent investigator. The grant includes substantial funds for computing, sequencing and to attend international conferences. There will be the opportunity to travel to the Max Planck Institute in Ploen to collaborate with colleagues there. The position is for 3 years from 1st January 2017 and can be extended for a further 2 years.

To apply, go to http://www.ed.ac.uk/human-resources/-jobs and search for vacancy 036954. The closing date for applications is 9th September 2016.

For informal enquiries, contact peter.keightley@ed.ac.uk

Peter Keightley Institute of Evolutionary Biology University of Edinburgh Edinburgh EH9 3FL UK

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

UEdinburgh HumanStatisticalGenetics

There is an exciting vacancy for a quantitative/statistical geneticist or bioinformatician in the lab of Albert Tenesa at the MRC-Human Genetics Unit (http://www.hgu.mrc.ac.uk/people/-a.tenesa.html). The project, which is collaboration with Professor Ian Jackson (http://www.hgu.mrc.ac.uk/-people/i.jackson.html), aims to understand the genetics of hair colour in humans.

Further details can be found at the University of Edinburgh Web. https://www.vacancies.ed.ac.uk/ Vacancy ref is 037190

Best wishes, Albert

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

TENESA Albert <Albert.Tenesa@ed.ac.uk>

UGuelph Biodiversity

Announcing an NSERC-funded Idea-2-Innovation Postdoctoral Fellowship at the Biodiversity Institute of Ontario to develop, refine and validate point-of-need eDNA detection methods for aquatic species at risk. Suitable applicants will have relevant experience in molecular methods for DNA isolation from environmental samples and/or diagnostic assay development (e.g. LAMP, qPCR). Salary is competitive and commensurate with experience. Initial appointment is for one year with the potential for renewal, pending suitable project progress and availability of funds. The opening is immediate and applications will be accepted until the position is filled:

https://www.uoguelph.ca/hr/careers-guelph-current-opportunities/postdoc toral-fellowship

Robert Hanner <rhanner@uoguelph.ca>

UHalle BeeEvolution

Postdoctoral Research Fellow in Insect Ecology and Evolution University of Halle (Germany)

Application deadline: 15 September 2016

A research scientist/assistant professor is sought for a â-L 13' position to join the Paxton lab at the University of Halle, Germany.

Broad research themes of the group are host-parasite interactions, pollination, conservation biology and social evolution: http://www.zoologie.uni-halle.de/-allgemeine_zoologie/research/ The group's taxonomic focus is on insects, particularly bees, it draws heavily on molecular genetics, and research infrastructure is excellent. We seek a highly motivated individual with strong quantitative skills who can work independently to develop a research program aligned to one or more of the group's themes and contribute to teaching at undergraduate and postgraduate levels within general zoology.

Halle is a delightful, historic city of a quarter million people with a large, research-intensive university situated 260 km southwest of Berlin and 40 km from Leipzig. You will be a member of a supportive and dynamic group that interacts closely within and outside the university, including with the UFZ-Helmholtz Environmental Research Center at Halle-Leipzig: http://www.ufz.de/-index.php?en=11382 and with the recently established DFG-funded biodiversity center iDIV: http://www.idiv-biodiversity.de/idiv-global/?lang=en a collaboration of the universities of Halle, Leipzig and Jena.

Applicants must hold a university doctoral degree in biology or a related discipline. Familiarity with insect ecological techniques and genetic data analysis is preferable. Applicants should have a proven track record in publishing high quality scientific papers. Experience in writing grant applications and past success in attracting research funding is of advantage. The working language of the group is English, though knowledge of basic German, or willingness to learn within two years, would be an advantage. The position is fixed term, initially for 3 years, commencing 1 December 2016 or as soon as possible thereafter, with the possibility of extension for a further 3 years. The salary is at the German standard postdoctoral rate (TV-L 13, 100%). The University of Halle is an equal opportunity employer.

Further details of the position can be obtained from Robert Paxton (email below), to whom applications should be emailed as a single pdf file, to include (i) a letter of motivation, (ii) cv, (iii) list of publications, (iv) list of externally acquired funds, (v) a single page on research achievements and future plans, and (vi) contact details of three referees, by 15 September 2016. Interviews are scheduled for end-October 2016.

Prof. Robert Paxton, General Zoology/Institute of Biology, Uni. Halle, Hoher Weg 8, D-06120 Halle/Saale, Germany. Tel.: +49-345-5526500; Email: robert.paxton [at] zoologie.uni-halle.de

Robert Paxton <robert.paxton@zoologie.uni-halle.de>

UIdaho EvolutionVaccines

We are looking for a postdoctoral scientist interested in developing and analyzing mathematical models focused on the epidemiology and evolution of transmissible vaccines. Although the specific questions to be addressed are open, the overall goal of the project is to develop models that couple evolutionary and epidemiological dynamics to predict when live transmissible vaccines would be safe and effective tools for controlling infectious disease. The work is part of an ongoing collaboration between Scott L. Nuismer and Chris Remien at the University of Idaho and will also involve testing emerging theoretical predictions using data collected from a model system of bacteria and phages in the lab of our collaborator Jim Bull at the University of Texas, Austin.

The position will be based at the University of Idaho and the post-doc will be co-supervised by Scott L. Nuismer (Departments of Biology and Mathematics) and Chris Remien (Departments of Mathematics and Biology). Applicants should have a PhD in evolutionary biology, ecology, mathematics, or a related field and a demonstrated ability to develop, analyze, and publish mathematical models of biological processes. To apply, e-mail a CV and the names and contact information of three references to Scott L. Nuismer (snuismer@uidaho.edu) and Chris Remien (cremien@uidaho.edu). The initial appointment will be for one year with the possibility of renewal for an additional year. Review of applications will begin on September 1, 2016.

Scott Nuismer <snuismer@gmail.com>

UJyvaskyla RapidEvolution

Postdoctoral Researcher in Quantitative Ecology: Effects of rapid evolution on ecosystems.

The Department of Biological and Environmental Science at the University of Jyvaskyla is currently seeking to recruit a qualified candidate to the position of Postdoctoral Researcher in Quantitative Ecology

The postdoctoral researcher will work in the project "The ecosystem effects of a rapidly evolving invader" (http://tinyurl.com/jy6uojx) led by Dr. Andres Lopez-Sepulcre and funded by the Academy of Finland. In this project we develop a novel mathematical framework to study the effects of consumer invasion and evolution on nutrient cycling, and apply it to isotope tracer data from an ongoing long-term evolutionary experiment using introduced guppies (Poecilia reticulata) in Trinidadian headwater streams. While the researcher is expected to contribute to the development of the mathematical tools, there is considerable freedom to develop their own research questions.

The project is co-directed with experts in ecosystem science (Prof.

Steven Thomas, Prof. Rana El-Sabaawi, and Dr. Sarah Collins). It forms part of an international network of researchers from France, Canada, USA, and the UK, including collaborations with evolutionary biologists (e.g. Profs. David Reznick, Joseph Travis, and Tim Coulson).

The postdoctoral researcher is expected to focus on scientific research and the task may also include teaching within his/her own area of expertise.

The duties, qualification requirements and language skills of postdoctoral researcher are stipulated by the University of Jyvaskyla Regulations and language skills guidelines. While the University may grant exemption from some of the requirements, a good command of English is imperative.

For this position we will recruit a person with a PhD in Ecology, Evolution, Statistics or related fields. Expertise in statistical and ecological modeling is necessary, including the ability to work with large data sets. Experience in Bayesian methods and the ability to create and optimize R packages are strongly desirable. Experience in ecosystem science, limnology, or food web ecology is not necessary but will be considered an asset.

The job-specific salary component of a postdoctoral researcher is based on the job demands level 5-6 (EUR 2865,30-3340,77/month) according to the salary system concerning teaching and research staff at universities. In addition, a personal performance-based salary component amounting to the maximum of 46,3% of the job-specific salary component is also paid. Health care is included.

The position may be renewed annually for a maximum of 4 years with an initial trial period of four months. The position is available from September 15th 2016 but the starting date is negotiable.

For further information, please contact: Dr. Andres Lopez-Sepulcre (alopez@biologie.ens.fr, http://-ecoevo.pagecloud.com).

The application (in English) should include (as pdf files): 1) A brief letter of interest (maximum 2 pages), detailing your research and career goals, qualifications and skills that are applicable to this project.

2) Curriculum vitae (CV) containing a publication list and contact details of two academics available for reference.

Application will be open until September 1st 2016. Please submit your application using the online application form at:http://tinyurl.com/jnvlko9 Andrés López-Sepulcre <lopezsepulcre@gmail.com>

UKansas InsectAntimicrobialPeptideEvolution

The Department of Molecular Biosciences, University of Kansas, seeks a postdoctoral researcher with interests and experience in Drosophila immune system evolution. The successful candidate will work with the members of the Unckless lab addressing the broad theme of host-parasite coevolution. The project will use antimicrobial peptides to study the characteristics and evolution of recently duplicated genes. This position consists of an initial 2-yr appointment and is expected to begin as early as November 1, 2016.

Required qualifications for the position includes a Ph.D. in Biology or in a closely related field, 2 years of experience with population genetics and/or next-generation sequencing OR the study of host immune response to infection, as evidenced by application materials, 2 years of

experience with molecular biology skills as evidenced by application materials and 2 years of experience with coding in R, Perl, Python, etc. as evidenced by application materials.

For a complete announcement and to apply online, go to https://employment.ku.edu/staff/6879BR . A complete application includes a detailed CV, a cover letter, and the names and contact information for three references. Initial review of applications begins September 1, 2016. For first consideration, please apply before September 1, 2016.

The University of Kansas prohibits discrimination on the basis of race, color, ethnicity, religion, sex, national origin, age, ancestry, disability status as a veteran, sexual orientation, marital status, parental status, gender identity, gender expression, and genetic information in the university's programs and activities. Retaliation is also prohibited by university policy. The following persons have been designated to handle inquiries regarding the nondiscrimination policies and are the Title IX coordinators for their respective campuses: Executive Director of the Office of Institutional Opportunity & Access, IOA@ku.edu , 1246 West Campus Road, Room 153A, Lawrence, KS 66045, 785-864-6414, 711 TTY (for the Lawrence, Edwards, Parsons, Yoder, and Topeka campuses); Director, Equal Opportunity Office, Mail Stop 7004, 4330 Shawnee Mission Parkway, Fairway, KS 66205, 913-588-8011, 711 TTY (for the Wichita, Salina, and Kansas City, Kansas medical center campuses).

"Unckless, Robert L" <unckless@ku.edu>

UKansas Phylogenomics

Postdoctoral Researcher position at the Biodiversity Institute at The University of Kansas: This post-doc will conduct scientific analyses focused on comparative phylogenomics of diversification in co-distributed land vertebrates of the Philippine archipelago. These studies will draw on a very large collection of genetic resources (primarily amphibians and reptiles) from the Philippines and will consider patterns of speciation in numerous groups, focusing in particular on endemic archipelago-wide clades, and species pairs spanning geographical barriers of variable permeability (marine channels, ephemeral land bridges, landscape features, and ecological gradients). The successful candidate will interact primarily with KU's Herpetology Division (its curators, collections manager, another postdoctoral researcher, and graduate students) as appropriate during the analysis of data and composition of scientific publications.

Required Qualifications:

* Ph.D. in biological sciences from an accredited university. * Extensive experience in the collection of genomic data collection and downstream bioinformatics analysis. * Demonstrated publication record in genomic sciences. * Demonstrated record of presenting and communicating research findings at international and national meetings.

Application and Additional information: https://employment.ku.edu/staff/6754BR * Complete applications will consist of a CV, a 2-page research statement, and two recommendation letters. * Review of applications will begin 30 August 2016.

Anticipated start-date: 1 January 2017.

The University of Kansas prohibits discrimination < http://policy.ku.edu/IOA/nondiscrimination > on the basis of race, color, ethnicity, religion, sex, national origin, age, ancestry, disability status as a veteran, sexual orientation, marital status, parental status, gender identity, gender expression, and genetic information in the university's programs and activities.

"Brown, Rafe" <rafe@ku.edu>

ULaval FungalAdaptation

Postdoctoral position: Genomics of adaptation in fungi at ULaval, Quebec, Canada

A postdoctoral position is available in the Landry Laboratory at Universite Laval in Quebec City under the Canada Research Chair in Evolutionary Cell and Systems Biology. The PDF will work on a collaborative project looking at the population genomics of plant pathogenic fungi of the genus Ophiostoma, including the species responsible for the Dutch elm disease. The goal of the project is to perform a large genomic and phenotypic survey of North American and world-wide isolates (n > 500) to examine the role of natural selection, inter-species hybridization and genome dynamics in the adaptation and range expansion of this pathogen. See our recent work on budding yeast (Leducq et al. Nature Microbiology, doi:10.1038/nmicrobiol.2015.3)

The candidate is expected to have a PhD in biology, bioinformatics or computational biology or a related discipline, with a strong background in bioinformatics

and statistics (R, Python) and at least some experience with whole-genome sequencing analysis and population genetics. The candidate should have strong leadership skills, motivation and creativity and be able to work in a team of collaborators within the laboratory and with other laboratories involved in the project.

The Landry lab is located at the Institut de Biologie Intégrative et des Systèmes (IBIS) of Université Laval and is part of the Quebec Network for Research on Protein Function, Engineering, and Applications (PROTEO). IBIS and PROTEO offer a stimulating training environment and cutting edge technologies in genomics and proteomics. The Landry lab is an international team of 15 students, PDFs and research associates from different backgrounds (microbiology, biology, bioinformatics, biochemistry) addressing questions in evolutionary cell and systems biology.

The application package (1 single PDF file) should include a motivation letter demonstrating the interest of the candidate for the field and his/her ability to perform this type of research, reprints of the candidate's most important contributions, a CV and the contact information of three people who can provide letters of reference. The file should be sent to landrylaboratory@gmail.com

Starting date could be as early as January 2017. The competition will remain open until a candidate is selected. The position is initially for 2 years with a possible extension to 3.5 years.

For recent publications from the Landry lab, please visit:

http://landrylab.ibis.ulaval.ca/ Christian Landry

Christian Landry, PhD Professeur agrégé

Chaire de Recherche du Canada en Biologie évolutive des systèmes cellulaires // Canada Research Chair in Evolutionary Cell and Systems Biology

Département de Biologie Institut de Biologie Intégrative et des Systèmes PROTEO Centre de recherche en données massives (CRDM)

Local 3106, Pavillon Charles-Eugène-Marchand 1030, Avenue de la Médecine Université Laval Québec (Québec) G1V 0A6 Canada

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

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

UManchester 3 EvolutionaryBiol

Hi folks,

Could I bring to your attention three post-doctoral positions in my laboratory at the University of Manchester.

JOB 1: We are looking for an ambitious and driven scientist to work on a world-leading project to develop tools and approaches for identifying and analyzing composite genes in genomes. Composite genes show partial homologies to more than one other kind of gene and in many instances, composite genes have formed by non-homologous recombination. This process has played a major role in giving us the diversity of proteins we see on the planet today. The work will involve the development of computer code in order to better analyse the homology data in diverse genomes. The project is part of a larger program of research that seeks to describe the role of composite gene formation in evolution.

Closing date: 01/09/2016. Reference: BM&H-08643. Duration: As soon as possible until 31/08/2018. Location: Oxford Road, Manchester. Salary: 30,738 to 33,574 per annum. You can find more information and apply for the position here: http://www.jobs.ac.uk/job/AOH148/research-associate/ JOB 2: We are looking for an ambitious and driven scientist to work on a world-leading project to uncover the origin of the eukaryotic cell. Your work will involve reconstructing ancestral metabolisms using a combination of expertise in metabolic modeling and information from contemporary genome sequences.

Closing date: 14/08/2016. Reference: BM&H-08644. Duration: As soon as possible until 31 August 2018. Location: Oxford Road, Manchester. Salary: 30,738 to 33,574 per annum. You can find more information and apply for the position here: http://www.jobs.ac.uk/job/AOH144/research-associate-in-the-metabolism-of-the-first-eukaryote/
JOB 3: We are looking for an ambitious and driven scientist to work on a world-leading project to develop tools and approaches for identifying and analyzing composite genes in genomes. Composite genes show partial homologies to more than one other kind of gene and in many instances, composite genes have formed by non-homologous recombination. This process has played a major role in giving us the diversity of proteins we see on the planet today. Your work will involve the development of computer code in order to better

analyse the homology data in diverse genomes. The project is part of a larger program of research that seeks to describe the role of composite gene formation in evolution.

Closing date: 14/08/2016. Reference: BM&H-08645. Duration: As soon as possible until 31 August 2018. Location: Oxford Road, Manchester. Salary: 30,738 to 33,574 per annum. Hours per week: Full time. You can find more information and apply for the position here: http://www.jobs.ac.uk/job/AOH156/research-associate-in-network-analysis-of-genomic-data/ Please Share/Tweet/Retweet/Re-retweet/Subtweet/whatever.

James.

– Prof. James McInerney PhD DSc FLS, Chair in Evolutionary Biology | Director, Evolution, Systems and Genomics, Michael Smith Building, The University of Manchester, Oxford Rd, Manchester M13 9PL, United Kingdom. P: +44 (0)161 2751843 | E: james.mcinerney@manchester.ac.uk T: @jomcinerney | Publications: http://mcinerneylab.com/pubs

James Mcinerney <James.McInerney@manchester.ac.uk>

UMichigan FungalGenomics

The lab of Tim James in the Department of Ecology and Evolutionary Biology at the University of Michigan is looking to hire a postdoctoral fellow in the area of single cell and comparative genomics. The research is centered on understanding the phylogeny and molecular evolution of uncultured and poorly known fungi, including the Cryptomycetes, Zygomycetes, and Chytridiomycetes through genomic analyses. The ultimate goals of the project are to produce a well-resolved phylogeny of the basal branches of the fungal kingdom, to identify key evolutionary events associated with diversification and reproduction, and to use genomics to predict ecological roles of uncultured lineages. A major component of the work will be to develop or improve methods for sequencing fungal genomes and transcriptomes using single or few cells or genome assembly using metagenomic approaches. This work will involve collaborations with the ZyGOLife research network (zygolife.org) and the Joint Genome Institute (JGI). The projects are supported by NSF and two JGI Community Sequencing Projects.

The ideal candidate will be skilled in bioinformatics, molecular biology, and microbiology with an interest in fungi. Preference will be given to candidates with proficiency in both bioinformatics and molecular biology. Possible duties include environmental sampling, cell sorting (FACS, micromanipulation), microscopy, genome assembly and annotation, and comparative analyses of genome evolution. Opportunities for mentoring undergraduates or research associates will be provided. The initial appointment is for one year with a possibility of extension to a second year pending performance review.

Our lab (www.umich.edu/~mycology) pursues diverse projects in mycology, and the environment is conducive to development of a pathway to independence in academic research. The lab is in the Department of Ecology and Evolutionary Biology (http://www.eeb.lsa.umich.edu/eeb/index.html), which has strengths in phylogenetics, evolutionary genomics, and disease ecology.

Interested applicants should email Tim James (tyjames@umich.edu) with a CV, cover letter, and the names and contact information of three references.

Anticipated Start Date: Between Oct. 1, 2016 and Jan. 1, 2017.

The University of Michigan is a non-discriminatory/affirmative action employer. The Department of Ecology & Evolutionary Biology at the University of Michigan harbors multiple labs with a focus on evolutionary genetics (http://www.lsa.umich.edu/eeb).

Timothy Y. James Associate Professor Associate Curator of Fungi Department of Ecology and Evolution University of Michigan Ann Arbor, MI 48109 734-615-7753 tyjames@umich.edu http://www.umich.edu/~mycology/ "tyjames@umich.edu" <tyjames@umich.edu>

UMontpellier Phylogenetics

. Project title: Bayesian methods and graphical approaches to improve our understanding of molecular evolution using mutation maps. . Principal investigator: Stephane Guindon (CNRS) . Associate investigators: Nicolas Galtier (CNRS), Fabio Pardi (CNRS), Anne-Muriel Chifolleau (UM), Francois Chevenet (IRD) & Anne-Laure Banuls (IRD). . Host institution: CNRS-University of Montpellier, France. . Funding: NUMEV (Digital and Hardware Solutions, Environmental and Organic Life Modeling). . Net salary: ~2100 euros/month. . Starting date: no later than April 2017.

A 18 month postdoc position in statistical phylogenetics is available at the University of Montpellier (UM), France. The successful candidate will join the "Methods and Algorithms in Bioinformatics" group and work in close collaboration with other Montpellier-based research teams (see above for more information about the personnel involved).

The project relies on Bayesian sampling techniques that map mutations on phylogenies [1]. These approaches are very relevant from a biological [2,3] and a computational [4] perspective. However, we believe that their full potential has not been reached yet. In particular, applying novel data exploration techniques to visualize mutation maps should help us improve our understanding of the fine scale mechanisms governing molecular evolution.

The postdoc candidate will thus develop original information visualization methods that will provide relevant summaries of the mutational process. The proposed techniques will also detect episodes of evolution that are not well predicted by our Markov models of evolution. Applications of these new visualization techniques are manifold. Adaptive evolution and biased gene conversion are associated with peculiar substitution patterns that mutation maps could potentially help identify. Similarly, errors in sequence alignment and/or improper orthology relationships are expected to generate atypical maps. Lastly, preliminary analyses of Mycobacterium tuberculosis genomes demonstrated how mutation maps can help recover the series of mutations leading to antibiotic resistance. The successful candidate will further develop one or several of these research leads.

The ideal candidate for the proposed project will have a PhD in statistical phylogenetics or population genetics, although pure statisticians and physicists with strong interest in molecular evolution should also apply. Good skills in data analysis with modern tools and programming languages (R and/or Python and/or Java or C/C++) are essential.

Please send CVs and inquiries to Stephane Guindon (guindon@lirmm.fr).

Bibliography:

[1] Nielsen, R. Mapping mutations on phylogenies. Systematic biology. 51. 729-739. 2002.

[2] Dutheil J, Pupko T, Jean-Marie A, Galtier N. A model-based approach for detecting co-evolving positions in a molecule. Molecular biology and evolution. 22. 1919-1928. 2005.

[3] Dutheil J, Galtier N. Detecting groups of co-evolving positions in a molecule: a clustering approach. BMC evolutionary biology. 7. 2007.

[4] Rodrigue N., Philippe H., Lartillot N. Uniformization for sampling realizations of Markov processes: applications to Bayesian implementations of codon substitution models. Bioinformatics. 24. 2007.

stephane.guindon@lirmm.fr

UMunich AvianEvolutionaryGenomics

Post doc position in avian evolutionary genomics A research position funded by the European Research Council (ERC-Starting Grant) is available at the research group of Jochen Wolf at the Division of Evolutionary Biology, Ludwig-Maximilians University of Munich, Germany. The position is initially limited to two years with the possibility of extension for another two years after evaluation.

–Background– Recombination is a central biological process with important implications for adaptation, speciation and, more generally, genome evolution. Theory predicts that recombination modulates the efficacy of selection and will impact the distribution of genetic diversity and divergence across the genome. This project will utilize state of the art sequencing technology to leverage information from population-scale processes bearing on linkage disequilibrium and meiosis at the level of individuals to infer fine-scale (recombination) genetic maps in several avian species. Our primary focus lies on the genus Corvus where we have access to several high-quality genome assemblies. The integration of recombination information with extensive population re-sequencing data (1, 2) and transcriptome data (3) will help elucidate the evolutionary processes acting during early and later stages of species diversification. In addition, comparative genomic analyses extending the framework beyond the level of the genus have the potential to disclose the contribution of recombination to the remarkable syntenic conservation of avian genome. In that, the project will contribute to our understanding of how population-level processes may translate into long-term evolution.

–Qualifications– The successful applicant holds a PhD degree, has an excellent track record with a thorough background in population genetics and/or comparative genomics, and is skilled in analyzing large genome-wide data sets.

–Research environment– In our research group we apply

an integrative approach to explore micro-evolutionary processes and genetic mechanisms underlying species divergence, adaptation and genome evolution. Using large-scale genetic approaches, as well as field based experiments, we characterize genomic divergence across populations and (sub-)species and assess its relationship to phenotypic divergence (4)- sometimes with an applied angle (5, 6). In addition, we engage in comparative approaches to study evolution across larger timescales (7). Empirical systems include natural populations of birds (swallows (8) and corvids (1-3)), marine mammals (pinnipeds and killer whales) (9, 10) and, recently added, the European hemiclonal water frog system and fission yeast. The group is currently transitioning from Uppsala University to the University of Munich. Information on our activities can be found at http://-www.ieg.uu.se/evolutionary-biology/wolf/ (Munich site under construction).

The University of Munich is consistently ranked among the top Universities worldwide, in particular the life science branch with its newly inaugurated campus offering excellent technical facilities and many interaction possibilities including the gene center, several Max-Planck-Institutes and the Helmholtz Centre (http:/-/www.campusmartinsried.de/en/336-2/#). With the highest concentration of supercomputing in Germany the Leibniz Supercomputing Centre and its local partners provide access to state-of-the art computing facilities (https://www.lrz.de/english/). Munich, Bavaria's capital, is a vibrant, yet relaxed city with many traditions still alive, a high quality of living and the Alps nearby.

–How to apply– Applications including a CV, a statement of motivation and the contact details of at least two references should be sent to Jochen Wolf j.wolf@bio.lmu.de. The position remains open until filled, starting date is flexible.

–Literature reflecting lab activities during the last 3 years–

1. J. W. Poelstra et al., The genomic landscape underlying phenotypic integrity in the face of gene flow in crows. Science. 344, 1410-1414 (2014).

2. N. Vijay et al., Nat. Commun., in press.

3. J. W. Poelstra, N. Vijay, M. P. Hoeppner, J. B. W. Wolf, Transcriptomics of colour patterning and coloration shifts in crows.

Mol. Ecol. 24, 4617-4628 (2015).

4. A. B. A. Shafer, J. B. W. Wolf, Widespread evidence for incipient ecological speciation: a meta-analysis of isolation-by-ecology. Ecol. Lett. 16, 940-950 (2013).

5. A. B. A. Shafer, J. M. Northrup, M. Wikelski, G. Wittemyer, J.

B. W. Wolf, Forecasting Ecological Genomics: High-Tech Animal Instrumentation Meets High-Throughput Sequencing. PLoS Biol. 14, e1002350 (2016).

6. A. B. A. Shafer et al., Genomics and the challenging translation into conservation practice. Trends Ecol. Evol. 30, 78-87 (2015).

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UMunich UppsalaU AvianEvolutionaryGenomics

Post doc position in avian evolutionary genomics

The position is initially limited to 2-years and can be extended to a 4 year period after evaluation. It is funded through a collaborative project grant of the prestigious 'Knut an Alice Wallenberg Foundation' and comes with the possibility to work both with Prof. Hans Ellegren at the Evolutionary Biology Centre, Uppsala Sweden and with Prof. Jochen Wolf at the Department of Evolutionary Biology, Ludwig-Maximilians University of Munich, Germany.

–Background– We are interested in understanding the genetic basis of population divergence using two avian model systems, Ficedula flycatchers and Eurasian Crows (Corvus (corone) spec.). Building on years of experience and comprehensive population genomic and transcriptomic background information in both systems 1-3, this project will focus on evolution of DNA methylation and its impact on gene expression and phenotypic traits relevant to speciation. The setup does not only allow comparing methylome evolution over short evolutionary timescales at the level of the genus, but also comparative analyses across 40 million years of avian evolution. In that it will provide insight into the relative stability of epigenetic features and their relationship to population genetic processes and long-term evolution.

–Qualifications– The successful applicant holds a PhD degree, has an excellent publication record demonstrating a thorough background in population genetics and/or comparative genomics, and is experienced in handling

large genome-wide data sets. Experience of working with methylome data is welcome.

–Research environments– The Evolutionary Biology Centre (http://www.ebc.uu.se/) is one of the world's leading research institutions in evolutionary biology. The Ellegren lab is part of the Department of Evolutionary Biology (http://www.ebc.uu.se/Research/IEG/-evbiol/), an active environment addressing fundamental evolutionary questions with a wide range of different approaches. As a member of the Science for Life Laboratory (http://www.scilifelab.se/) we have access to high performance computing resources (https:/-/www.uppmax.uu.se/uppnex), excellent lab facilities and extended bioinformatic infrastructure (http://-www.scilifelab.se/platforms). The lab is situated in the student town of Uppsala, that offers rich opportunities in cultural and outdoor activities. Sweden's capital Stockholm is less than an hour's train ride away.

Munich University is consistently ranked among the top Universities worldwide, in particular the life science branch with its newly inaugurated campus offering excellent technical facilities and many interaction possibilities including the gene center, several Max-Planck-Institutes and the Helmholtz Centre (http://www.campusmartinsried.de/en/336-2/#). With the highest concentration of supercomputing in Germany the Leibniz Supercomputing Centre and its local partners provide access to state-of-the art computing facilities (https://www.lrz.de/english/). Munich is Bavaria's capital, a vibrant, yet relaxed city with many traditions still alive considered by many to have a high quality of living (https://en.wikipedia.org/wiki/-Mercer_Quality_of_Living_Survey) and the Alps nearby.

–How to apply– Applications should include a CV, a statement of motivation and the contact details of at least two references, and shall be sent to Jochen Wolf j.wolf@bio.lmu.de and Hans Ellegren hans.ellegren@ebc.uu.se.

Please include 'Post-doc avian evolution' in the subject header.

The positions remains open until filled. Starting date is flexible.

–Literature– 1. Ellegren, H. et al. The genomic landscape of species divergence in Ficedula flycatchers. Nature 491, 756-760 (2012).

2. Poelstra, J. W. et al. The genomic landscape underlying phenotypic integrity in the face of gene flow in crows. Science 344, 1410-1414 (2014).

3. Poelstra, J. W., Vijay, N., Hoeppner, M. P. & Wolf, J. B. W. Transcriptomics of colour patterning and coloration shifts in crows.

Mol. Ecol. 24, 4617-4628 (2015).

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Jochen B. W. Wolf, Professor

Division of Evolutionary Biology Faculty of Biology Ludwig-Maximilian University of Munich Grosshaderner Strasse 2 82152 Planegg-Martinsried Germany

phone: +49 (0)89 / 2180-74102 fax: +49 (0)89 / 2180-74104

http://www.evol.bio.lmu.de/research/j_wolf/index.html

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UNevada Reno PlantInsectEvolution

The Forister lab at the University of Nevada, Reno, seeks applicants for a postdoctoral position to join a large research group (at UNR and collaborating universities) investigating the process of host plant colonization by herbivorous insects and microbes (bacteria and fungi). We are interested in the interaction of multiple layers of biodiversity as they affect the evolution of novel interactions.

The postodoctoral research associate filling this position will lead field work across Nevada and the Great Basin, studying plant and insect populations during the spring and summer months, and will supervise graduate and undergraduate students in the lab and field. The person filling this position will have the opportunity to interact with labs specializing in: phytochemsity, population genomics, and microbial ecology.

The University of Nevada, Reno, is a Tier I institution offering a highly productive research environment. The Biology Department is home to 44 faculty members that maintain nationally recognized, extramurally funded research programs, mentor a large community of graduate students, and participate in undergraduate teaching. Our rapidly-growing department includes a concentration of labs focused on plant-animal ecology, and the Ecology, Evolution and Conservation Biology

graduate group hosts a weekly colloquium that brings national and international speakers.

Reno is located at the foot of 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. A huge number of natural habitats can be easily accessed within a short drive from campus, which makes Reno a great place to be a field biologist.

For more information and to apply, please visit: https://www.unrsearch.com/postings/21446 forister@gmail.com

UOslo DNAMetabarcoding

CEES, Department of Biosciences, University of Oslo, Norway Postdoctoral Research Fellow in DNA Metabarcoding of Herbivore Diet

A three year position as postdoctoral research fellow available at Centre for Ecological and Evolutionary Synthesis (CEES), Department of Biosciences.

Project description

We generate DNA based diet data and study species and human interactions of the reindeer - one of the last remnants of the Beringian megafauna in the Arctic, keystone species, with high cultural and economic value for indigenous residents. Using DNA metabarcoding we analyze geographic, climatic and seasonal patterns of reindeer diet variation in different socio-economic settings. We will study diet overlap and infer trophic interactions with other herbivore species in the Arctic, such as geese, ptarmigan (Svalbard) and rodents (Finnmark). Our study will test whether reindeer diet changes correlate with warmer/longer summers or variation in population density. We integrate this ecosystem-based information with socio-economic data and local knowledge of reindeer herders to apply adaptive governance for developing co-management actions and implementation of alternative reindeer husbandry practices and mitigation measures for climate and/or land use change. The project is closely linked to the PhyloAlps (LECA, CNRS, Grenoble), ECOGEN (Tromsø University Museum) and REINCLIM (NTNU, Trondheim) projects. Project partners: CEU (Budapest, Hungary) and James Hutton Institute (Aberdeen, Scotland) provide necessary expertise on socio-economic and adaptive governance approaches.

Qualifications:

The Faculty of Mathematics and Natural Sciences has a strategic ambition of being a leading research faculty. Candidates for these fellowships will be selected in accordance with this, and expected to be in the upper segment of their class with respect to academic credentials. Applicants must hold a PhD-degree in Biology (or other corresponding education equivalent to a Norwegian doctoral degree). Additionally some years of post-doctoral research experience or research experience at this level are considered an advantage. In particular, research experience in DNA metabarcoding including data processing from high-throughput sequencing and bioinformatic analyses, herbivore diet analyses, as well as experience/knowledge of herbivore and arctic community ecology, arctic biodiversity, molecular biology and biostatistics are very relevant. Experience in field work in arctic/boreal regions and student supervision are a strong asset. The candidate will be hosted by the Centre for Ecological and Evolutionary Synthesis (CEES) at the Dept. of Biosciences and work on the NCR funded research grant to Galina Gusarova, project nr257642 entitled REININ - Reindeer interactions from plants and birds to humans: balancing the odds of climate change. The work will be done in close collaboration with research teams from the linked projects. The candidate will be engaged in field collecting, laboratory and data analyses stages of the project with the focus on DNA metabarcoding/metagenomics and ecological data analyses and interpretations. We seek a highly motivated, enthusiastic person with the ambition to push research and methodology frontier and publish papers in leading international journals, and in possession of good interpersonal skills and willingness to work in close collaboration with others. The main purpose of post-doctoral research fellowships is to qualify researchers for work in top academic positions within their disciplines. Please also refer to the regulations pertaining to the conditions of employment for post-doctoral fellowship positions: http://www.uio.no/english/-about/regulations/personnel/academic/regulations-employment-conditions-postdoc.html A good command of English is required.

Salary: Position code 1352, NOK 486 100 - 567 100 per year, (Pay Grade: 57 - 65) depending on qualifications and seniority.

The application must include: * Application letter including a statement of interest, describing how your background and previous experience relate to the project in general, and how your skills fit into the framework outlined for the postdoc * CV (summarizing education, positions, pedagogical experience, administrative

experience and other relevant activities) * Copies of educational certificates, transcript of records, letters of recommendation, a complete list of publications and unpublished work, and up to 5 academic papers that the applicant wishes to be considered by the evaluation committee * Names and contact details of 2-3 references (name, relation to candidate, e-mail and telephone number) Please remember that all documents should be in English or a Scandinavian language. In accordance with the University of Oslo's equal opportunities policy, we invite applications from all interested

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UOslo EvolutionaryDynamics

A THREE-YEAR POSITION AS A POSTDOCTORAL RESEARCH FELLOW IN FOOD WEB ECO-EVOLUTIONARY DYNAMICS is available at the Centre for Ecological and Evolutionary Synthesis (CEES), Department of Biosciences, Faculty of Mathematics and Natural Sciences, University of Oslo (Norway). The Postdoctoral fellow will be part of a large-scale international project (Size-dependent anthropogenic perturbations - from genes to ecosystems and back) financed by the Norwegian Research Council in which we will explore eco-evolutionary feedback loops induced by size-dependent selection in the medaka Oryzias latipes.

The position will be affiliated to CEES (www.cees.uio.no), a national centre of excellence (CoE), situated at the Department of Biosciences, University of Oslo. The appointment is for a period of three years, including experimentations in Paris, France. The successful candidate will integrate an outstanding international research consortium gathering ecologists, molecular physiologists, bioinformaticians and geneticists in Norway and France: the Weltzien lab at the Norwegian University of Life Sciences (http://weltzienlab.com/), the Institute for Ecology and Environmental Sciences of Paris at Université Pierre et Marie Curie (https://ieesparis.ufr918.upmc.fr/-?lang=fr), and the Laboratory for Evolution, Genomes, Behaviour and Ecology of CNRS in Gif sur Yvette (http://www.egce.cnrs-gif.fr/?lang=en).

PROJECT DESCRIPTION Anthropogenic perturbations are disproportionately impacting large-sized species and individuals at the top of food webs, and result in cascading effects in ecosystems. These trophic cascades are caused not only by a decrease in top-predator densities, but also by an adaptive change towards smaller body sizes in top predators. Whether and how anthropogenic trophic cascades induce a change in the natural selection that acts back on body size (i.e., an eco-evolutionary feedback loop) remains largely unknown. The goal of the 3-year postdoc project is to experimentally explore whether and how such eco-evolutionary feedback loops operate in medaka and pond food webs.

Specifically, we will measure the cascading effects of fast- and slow-growth medaka lines in outdoor tank ecosystems under both bottom-up (enrichment) and top-down (presence/absence of medaka predators) perturbations, and whether and how natural selection acting back on medaka body size is different among the selected medaka lines and perturbation types. The postdoc will (i) contribute designing the protocols, (ii) supervise the experiments including sampling the different ecosystem compartments and medaka fitness metrics, enumerate invertebrate samples, and (iii) analyse and model the data.

REQUIREMENTS Applicants must hold a PhD-degree (or other corresponding education equivalent to a Norwegian doctoral degree) and document solid experience in ecology and evolution. The candidate will work in close collaboration with the rest of the project team and it is expected that the candidate will stay for about 6 months periods with the collaborating institutions in France.

We are seeking a highly motivated and hard working postdoctoral candidate that will be able to manage a large pond experiment, enumerate plankton and benthos samples, analyze and model data, and publish articles in high-ranking journals. A high sense of organization, experience with aquatic ecosystem experiments, and data analysis (R programming language and statistical modeling) are particularly appreciated.

SALARY Position code 1352, NOK 486 100 - 567 100 per year, (Pay Grade: 57 - 65) depending on qualifications and seniority.

APPLICATION Please, send your application through the UiO application portal at http://uio.easycruit.com/-vacancy/1687133/96871?iso=no The application must include: - Application letter including a statement of interest, briefly summarizing your scientific work and interests and describing how you fit the description of the person we seek. - CV (summarizing education, posi-

tions, pedagogical experience, administrative experience and other qualifying activity). - Copies of educational certificates, transcript of records, letters of recommendation. - A complete list of publications and unpublished work, and up to 5 academic papers that the applicant wishes to be considered by the evaluation committee. - Names and contact details of 2-3 references (name, relation to candidate, e-mail and telephone number).

The University of Oslo has an agreement for all employees aiming to secure rights to research results a.o.:

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UOxford StatisticalGenomics

Postdoctoral Scientist in Statistical Genomics/Microbial Bioinformatics

Modernising Medical Microbiology (MMM) consortium, University of Oxford

Applications to be received by 12pm on Monday 5th of September 2016

Grade 7: 30,738 - 37,768 p.a.

We are seeking a Statistical Genomics postdoctoral Scientist with experience in microbial bioinformatics to join an established multi-disciplinary team as part of the Modernising Medical Microbiology (MMM) consortium (http://modmedmicro.nsms.ox.ac.uk/). This post provides an opportunity to join an exciting new project investigating antimicrobial resistance in environmental, human (clinical and non-clinical) and animal reservoirs.

In this post, you will investigate the best approaches to process sequence data (short- and long-read; including 1000 PacBio genomes and 180 metagenomic datasets) and to develop and apply statistical methods to examine gene flow of antibiotic resistant genes across sampling niches. You will develop sequence assembly and statistical analysis methods, maintain databases of resistance-conferring variants in Enterobacteriaceae, investigate mobile genetic elements and disseminate the findings.

You will hold a PhD degree in statistical genomics, evolutionary biology, statistics or a related subject with experience in whole genome sequence analysis. You will have experience with programming, including familiarity with statistical packages such as R. You will have strong communication skills with a proven ability to disseminate your ideas in fluent English, together with an enquiring and flexible attitude and an interest in working collaboratively with researchers from different disciplines.

The post is full-time and fixed-term until 31 May 2019 in the first instance. Applications for this vacancy are to be made online. You will be required to upload a supporting statement and CV as part of your online application. Applications from candidates who have not yet completed their PhD may be considered, and would be appointed at Grade 6 (27,328 - 32,600 p.a.) with amended duties and responsibilities.

Only applications received before 12.00 midday on Monday 5 September 2016 will be considered. Interviews are expected to take place on Thursday 8 September 2016.

Contact: HR Officer (01865 221325) Informal enquiries to daniel.wilson@ndm.ox.ac.uk or nicole.stoesser@ndm.ox.ac.uk

For further details, please also view: http://www.ndm.ox.ac.uk/current-job-vacancies/vacancy/-124902-Postdoctoral-Scientist-in-Statistical-Genomics/-Microbial-Bioinformatics

Nicole Stoesser <nicole.stoesser@ndm.ox.ac.uk>

UPennsylvania ComputationalGenomics

Postdoctoral Positions in Single Cell Biology at University of Pennsylvania

The labs of Junhyong Kim and Jim Eberwine have multiple open postdoctoral positions in computational biology, experimental genomics, or combination of both. We are jointly pursuing multiple single cell biology projects including: characterization of single cells from humans, functional identification of cell phenotypes, and RNA biology of individual cells. We are also actively developing novel technologies including multiplex RNA manipulations, new machine learning methods, and models of system function. Our groups tightly integrate both computational modeling and experimental approaches in addressing basic biological questions (e.g., evolution of cell function) and translational applications (e.g., identifying novel drug targets). We especially value a broad

interdisciplinary outlook, an ability to work well with others and scientific creativity.

The computational biology positions require expertise in programming, familiarity with NGS tools, and statistical analysis; expertise in machine learning and high-dimensional data is desirable. The experimental genomics positions require expertise in molecular biology and transcriptomics; expertise in cell culture, imaging, neuroscience and genomic technologies is desirable.

Please send to Junhyong@sas.upenn.edu or Eberwine@upenn.edu: (1) cover letter describing interest in the position and future research interests (not to exceed one page); (2) CV; (3) names and contact information for three references.

Junhyong Kim Patricia M. Williams Professor Department of Biology Department of Computer and Information Science Co-Director, Penn Program in Single Cell Biology http://kim.bio.upenn.edu 304G Lynch Life Sciences Building 415 S. University Ave Philadelphia, PA 19104 (215)-746-5187 (voice) (215)-898-8780 (fax) (215)-746-4490 (asst.)

junhyong@sas.upenn.edu

USheffield ClimateAdaptation

Dear EvolDirers,

I'm looking for a quantitative mind to write in as a 1-yr postdoc (initially) in a NERC research project examining the efficiency of certain buffering life history strategies of dozens of UK animal and plant species at dealing with the projected increase in temperature of 1.5 C in the UK in coming decades. This position is to be coadvised by myself and Dylan Childs at University of Sheffield (ranked 3rd in the UK in Biological Sciences). The position would start October 1st 2016. Candidates must evidence a strong publication record (normalised by time to or since PhD graduation), expertise in population models (e.g. matrix models, IPMs, IBMs), quantification of environmental drivers, and analyses and programming in R... a bit of comparative biology would not hurt either. Please help us spread the word. Interested candidates are to email me directly (r.salguero@sheffield.ac.uk) ASAP, but before Aug 15th, with a CV and one-page statement of academic interests.

Cheers, Rob Salguero-Gomez

"Aliud iter ad prosperitatem nos est: id est omnibus rebus vincere"

Dr Rob Salguero-Gomez NERC Independent Research Fellow at the University of Sheffield Honorary research fellow of the University of Queensland Guest researcher of the Max Planck Institute for Demographic Research https://www.sheffield.ac.uk/aps/staff-and-students/-acadstaff/salguero-gomez http://sites.google.com/-site/RobResearchSite/ "r.salguero@sheffield.ac.uk" <r.salguero@sheffield.ac.uk>

UStAndrews ComparativeDrosophilaGeneExpr

A three year postdoctoral research position is available to work with Mike Ritchie at the University of St Andrews, Scotland.

The main aim is to develop techniques for gene expression manipulation in a range of species of Drosophila and to examine the phenotypic, transcriptomic and metabolomic consequences of expression manipulation. The work is collaborative with colleagues at St Andrews, Oxford, Lausanne and Finland.

Further details, including links to application procedures are available at:

View Vacancy Details

(if this link doesn't work go to https://www.vacancies.st-andrews.ac.uk/welcome.aspx and look for position AR1829MR)

Please note that applications cannot be made directly to me, though informal enquiries to mgr@st-andrews.ac.uk are welcome.

Application deadline 2^nd September 2016. The work is funded by the Natural Environmental Research Council, UK, and a UK work permit will be required.

Mike Ritchie

Centre for Biological Diversity, School of Biology, University of St Andrews, Fife. Scotland KY16 9TH UK

Phone: 0 (44 outside UK) 1334 463495

Some websites: Lab: http://biology.st-andrews.ac.uk/-ritchielab/ Uni: http://www.st-andrews.ac.uk/-profile/mgr Google: http://scholar.google.co.uk/-citations?user=3DJSkvwMsAAAAJ&hl CBD: http:/-/biodiversity.st-andrews.ac.uk/ Michael Ritchie <mgr@st-andrews.ac.uk>

WesternU VirusEvolution

Post-doctoral Position in Virus Evolution and Bioinformatics

Funding is immediately available for a two-year post-doctoral fellowship in Dr. Art Poon's laboratory in Virus Evolution and Bioinformatics at Western University in Canada. (There are openings for M.Sc. students as well!)

The objective of this research project is to implement and apply novel computational methods to infer evolutionary and epidemiological processes from the shapes of virus phylogenetic trees, by extending machine learning techniques being developed in the lab (for example, see http://mbe.oxfordjournals.org/content/32/9/2483 and http://dx.doi.org/10.1371/journal.pone.0078122). The successful applicant will work with Dr. Poon and members of his laboratory to develop a new open-source software package and to apply these methods to research problems in the evolution of human viruses within and among hosts.

Candidates should have a PhD in any of the following disciplines: applied/discrete mathematics; bioinformatics; molecular evolution; microbiology; computer science; or a related field to any of these disciplines. Fluency in at least one interpreted or compiled programming language is mandatory. Experience with C/C++ and/or Python is strongly preferred. The candidate should be acquainted with working within a Unix/Linux development environment. Experience working in a high performance clustered computing environment is beneficial but not mandatory. Candidates should have a demonstrated ability to communicate effectively and collaborate in a group, to follow good coding practices, and to author scientific papers.

This position will be based in the Department of Pathology and Laboratory Medicine within the Schulich School of Medicine & Dentistry at Western University in London, Ontario. The Schulich School is home to many leading researchers in infectious diseases and viruses, as well as ImPaKt, a new imaging and biocontainment facility for the analysis of host-pathogen interactions. Dr. Poon is an active open-source developer (http://github.com/-ArtPoon), was a major contributor to the phylogenetic software package HyPhy (http://hyphy.org), and has authored over 60 peer-reviewed publications in bioinformatics and virus evolution (http://orcid.org/0000-0003-3779-154X).

Applicants should send a CV, cover letter, and contact information for two references to apoon42@uwo.ca

Art F. Y. Poon Virus Evolution and Bioinformatics Schulich School of Medicine & Dentistry, Western University London, Ontario N6A 5C1

"apoon42@uwo.ca" <apoon42@uwo.ca>

WorkshopsCourses

Almaty Kazakhstan NGS applications Sep18-24 UK

Places are available for UK based, early career researchers (post-docs, research fellows, junior faculty) to participate in the workshop detailed below. You will join a group of 13 UK scientists travelling to Almaty, Kazakhstan to showcase your NGS driven research, and to explore new collaborative links with Kazakh researchers.

Call for participants for workshop on: Enhancing capacity for next generation sequencing (NGS) and genomics in health, agricultural, evolutionary & ecological and environmental applications in Kazakhstan

Summary Under the Researcher Links scheme offered within the Newton Fund, the British Council, Researcher Links scheme we will be holding a workshop on the above theme in Almaty, Kazakhstan on 18th-24th September 2016. The workshop is being coordinated by Dr Simon Goodman (University of Leeds, UK) and Dr Kobey Karamendin (Institute of Microbiology & Virology, Almaty, Kazakhstan), and will have contributions from other leading researchers. We are inviting Early Career Researchers based in the UK to apply to attend this workshop. All travel and accommodation expenses will be covered by the Newton Researcher Links programme. Enquiries can be made to Simon Goodman (s.j.goodman@leeds.ac.uk). An application form, with more details on the initiative, is available from https://goodmanlabdotorg.files.wordpress.com/-2016/08/ngs_almaty_application_details.pdf, and should be sent to s.j.goodman@leeds.ac.uk by 2nd September or sooner.

Workshop outline This workshop aims to bring together UK researchers using NGS and genomics in different fields, with Kazakh scientists, to foster links that will help enhance the capacity of Kazakh researchers to apply this technology in their own work, to identify new opportunities for collaborative research projects between the UK and Kazakhstan and to promote career development of young scientists.

We are looking for early career researchers (post-docs, research fellows, junior faculty, with up to 10 years experience post-PhD), using NGS based techniques in any field (including medical, veterinary, agricultural, microbiology, ecology & evolution, environmental biology applications), who are interested in presenting their research and sharing their experience of developing and running NGS based projects.

The focus will be to highlight how NGS based tools can be applied to a diverse range of research topics, how to build up and maintain NGS capabilities for individuals and institutions, and how to design NGS driven research projects.

The workshop will be based around short presentations on individual research projects, seminars on NGS technologies and data analysis methods, poster sessions, discussion panels, networking and social events.

Note this is not a training workshop as such, rather we are looking for researchers with existing experience.

Outward travel from the UK will be on Sunday 18th September, with a rest day on the 19th. The main workshop will run until lunchtime on the 23rd, with return travel to the UK planned for the 24th September.

UK passport holders do not require a visa for Kazakhstan. Other nationalities should check visa requirements with the Kazakh consulate in London. Visa processing is stated as requiring a minimum of 5 working days (http://www.kazembassy.org.uk/en/pages/page/-6).

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"S.J.Goodman@leeds.ac.uk"
<S.J.Goodman@leeds.ac.uk>

Trivigno <soledad.esteban@transmittingscience.org>

Barcelona PhylogeneticAnalysisUsingR Mar6-10

Dear Colleague,

Registration is open for the fourth edition of the course PHYLOGENETIC ANALYSIS USING R, March 6th-10th, 2017.

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/phylogeny/-phylogenetic-analysis-using-r/ 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 theorical bases phylogenetic analysis, (ii) to know how to choose a strategy of molecular data analysis at the interÂ©\ 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.

Requeriments: Knowledge of multivariate statistics, phylogenetics and molecular evolution. User level of R.

PLACE: Facilities of the Centre of RestauraciÂÂ i InterpretaciÂÂ Paleontologica, Els Hostalets de Pierola, Barcelona (Spain).

Organized by: Transmitting Science, the Institut CatalÂÂ de Paleontologia M. Crusafont and the Centre de RestauraciÂÂ i InterpretaciÂÂ Paleontologica de Els Hostalets de Pierola.

Places are limited and will be covered by strict registration order.

With best regards

Soledad De Esteban-Trivigno, PhD. Scientific Director Transmitting Science www.transmittingscience.org Soledad De Esteban-

CatalinaIsland California 2bRAD Genotyping Sep3-11

This year's workshop will be held September 3rd to 11th on at the USC

khufford@uwyo.edu

CzechRepublic Genomics Jan8-21

7th ANNUAL WORKSHOP ON GENOMICS, CESKY KRUMLOV, CZECH REPUBLIC

We are pleased to announce that we are accepting applications for the 7th Annual Workshop on Genomics which is being held once again in beautiful Cesky Krumlov, Czech Republic from 8-21 January, 2017. More information is below and can be found on our website at http:/-/evomics.org . An on-line application form can be found at: http://evomics.org/2017-workshop-on-genomics/ 2017 Workshop on Genomics, Cesky Krumlov, Czech Republic

Dates: 8-21 January, 2017

Application Deadline: 15 September, 2016 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: $1800 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/2017-workshop-on-genomics/ Useful Links: Direct Link to the Full Workshop Schedule: http://evomics.org/workshops/-worksho...cesky-krumlov/ General Workshop information: http://evomics.org Frequently Asked Questions (FAQ) about the Workshop and Cesky Krumlov can be found here: http://evomics.org/workshops/faq/ Work-

shop Overview: The Workshop on Genomics consists of a series of lectures, demonstrations and computer laboratories that cover various aspects of genomics focusing primarily on the analysis of modern sequencing data. 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 modern sequence data, analytical methods, and the use of modern sequence data to study non-model organisms, variant detection and analysis, genome visualization tools and related areas are encouraged to apply for admission. Lectures and computer laboratories total ˜90 hours of scheduled instruction. No programming experience is required.

Topics to be covered include: - Sequencing technologies - Genomics study design - Manipulation of sequence data using the command-line and quality assessment and control techniques - Analyzing genomic data in the "cloud" using Amazon Web Services (AWS) - Assembly and alignment: basic analyses used for de novo and re-sequencing studies - The use of next-generation sequence data to study non-model organisms - RAD (Restriction site Associated DNA) sequence analysis - Metagenome analysis (with WGS and amplicon) - Evolutionary genomics

Co-directors: Naiara Rodríguez-Ezpeleta, Dag Ahren, Scott A. Handley, Konrad Paszkiewicz, and Karin Rengefors

For more information and online application see the Workshop web site - http://evomics.org "Handley, Scott" <shandley@pathology.wustl.edu>

Kristineberg Sweden MarineEvolution Nov20-25

Marine evolution under climate change

International course for PhD students and post docs.

20-25 November 2016, Kristineberg, Sweden

What determines species-sensitivity to future environmental stressors and how does it relate to a species recent evolutionary history? What life-history strategies will be selected in future oceans? How can we assess a species' adaptation potential? What is the role of phenotypic plasticity in species resilience? What will be the evolutionary rules in future oceans? What is the role of ecological interactions in future ecosystem changes?

This is an international course for PhD students and postdocs to learn more about how climate change (including global warming, ocean acidification, hypoxia) affects evolutionary rules that shape ocean ecosystem.

Applications should include a short description of your research interest and why you would like to participate, max one A4 page, and CV with publication list.

Deadline for registration: 5th September 2016

Send your application to: sam.dupont@bioenv.gu.se

Course organizers:

Sam Dupont, CeMEB

Piero Calosi, Universite du Quebec ?? Rimouski (UQAR), Canada

CeMEB teachers: Sam Dupont, Alexander Ventura, Pierre de Wit

Invited teachers:

Piero Calosi (University of Quebec ?? Rimouski, Canada)

Greg Puncher (University of New Brunswick, Canada)

http://cemeb.science.gu.se/activities/courses/marine-evolutionary-biology-advanced-courses/advanced-course-2016 Gregory Neils Puncher Post Doctoral Fellow - Dept. Biological Sciences T 506 648-5985 C 506 607-1879 Office CRI 128 Lab CRI 215 PO BOX 5050 Saint John, New Brunswick Canada E2L 4L5 skype: greg.n.puncher

University of New Brunswick

Facebook /uofnb Twitter @unb Instagram @discoverunb UNB.ca

Greg Puncher <Gregory.Puncher@unb.ca>

Manchester IntroToPythonForBiologists Oct3-7

INTRODUCTION TO PYTHON FOR BIOLOGISTS

http://prstatistics.com/course/introduction-to-python-for-biologists-ipyb-3/ This course is being delivered by Dr Martin Jones, an expert in Python and author of two text books,

Python for Biologists [http://www.amazon.com/-Python-Biologists-complete-programming-beginners/-dp/1492346136/] Advanced Python for Biologists [http://www.amazon.com/Advanced-Python-Biologists-Martin-Jones/dp/1495244377/] . Due to high demand a repeat of this course will run from 3rd - 7th October 2016 at Malham tarn field centre, Yorkshire, North of Manchester, England.

Course overview: Python is a dynamic, readable language that is a popular platform for all types of bioinformatics work, from simple one-off scripts to large, complex software projects. This workshop is aimed at complete beginners and assumes no prior programming experience. It gives an overview of the language with an emphasis on practical problem-solving, using examples and exercises drawn from various aspects of bioinformatics work. After completing the workshop, students should be in a position to (1) apply the skills they have learned to tackle problems in their own research and (2) continue their Python education in a self-directed way. Intended audience:

This workshop is aimed at all researchers and technical workers with a background in biology who want to learn programming. The syllabus has been planned with complete beginners in mind; people with previous programming experience are welcome to attend as a refresher but may find the pace a bit slow. Teaching format:

The workshop is delivered over ten half-day sessions (see the detailed curriculum below). Each session consists of roughly a one hour lecture followed by two hours of practical exercises, with breaks at the organizer's discretion. There will also be plenty of time for students to discuss their own problems and data.

Assumed background: Students should have enough biological background to appreciate the examples and exercise problems (i.e. they should know about DNA and protein sequences, what translation is, and what introns and exons are). No previous programming experience or computer skills (beyond the ability to use a text editor) are necessary, but you'll need to have a laptop with Python installed.

Curriculum: Day 1: Module 1 - Introduction Module 2 - Output and text manipulation

Day 2: Module 3 - File IO and user interfaces Module 4 - Flow control 1: loops

Day 3: Module 5 - Flow control 2: conditionals Module 6 - Organizing and structuring code

Day 4: Module 7 - Regular expressions Module 8 - Dictionaries

Day 5: Module 9 - Interaction with the file system Module 10 - Optional free afternoon to cover previous modules and discuss data

Please email any inquiries to oliver-hooker@prstatistics.com or visit our website www.prstatistics.com Please feel free to distribute this material anywhere you feel is suitable

Other relevant courses - email for details oliver-hooker@prstatistics.com 1. INTRODUCTION TO BIOINFORMATICS USING LINUX (August) 2. ADVANCED PYTHON FOR BIOLOGISTS (fEBRUARY, 2017)

Upcoming courses - email for details oliver-hooker@prstatistics.com 3. INTRODUCTION TO BAYESIAN HIERARCHICAL MODELLING (August) 4. INTRODUCTION TO PYTHON FOR BIOLOGISTS (October) 5. LANDSCAPE (POPULATION) GENETIC DATA ANALYSIS USING R (October) 6. APPLIED BAYESIAN MODELLING FOR ECOLOGISTS AND EPIDEMIOLOGISTS (October) 7. PHYLOGENETIC DATA ANALYSIS USING R (October/November) 8. SPATIAL ANALYSIS OF ECOLOGIC AL DATA USING R (November) 9. ADVANCING IN STATISTICAL MODELLING USING R (December) 10. MODEL BASED MULTIVARIATE ANALYSIS OF ECOLOGICAL DATA USING R (January, 2017) 11. NETWORK ANAYLSIS FOR ECOLOGISTS USING R (March, 2017) 12. INTRODUCTION TO GEOMETRIC MORPHOMETRICS USING R (June, 2017)

Dates still to be confirmed - email for details oliver-hooker@prstatistics.com - STABLE ISOTOPE MIXING MODELS USING SIAR, SIBER AND MIXSIAR USING R - INTRODUCTION TO R AND STATISTICS FOR BIOLOGISTS - BIOINFORMATICS FOR GENETICISTS AND BIOLOGISTS

Oliver Hooker PR Statistics

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www.prstatistics.com www.prstatistics.com/-organiser/oliver-hooker/ Oliver Hooker <oliverhooker@prstatistics.com>

OTS CostaRica InsectEvolution 2017

Hello all,

I wanted to share the following information on the courses we will be offering for 2017:

2017 OTS Graduate Courses (Click here to view graduate course catalog < http://-education.tropicalstudies.org/images/downloads/-education/graduate/Catalogocursos17.pdf >)

Ecology and Evolution of Arachnids (Jan 3 - 17). < http://education.tropicalstudies.org/en/-education/graduate-opportunities/programs/ecology-and-evolution-of-arachnids.html >

Ecology and Evolution of Arachnids is a two-week, field and lab-intensive course incorporating field-based observations and experiments, inquiry-driven research proposals and projects, hands on identification and preservation experience, and interactive lectures from leading researchers in the field of Arachnology

Tropical Butterfly Ecology < http://-education.tropicalstudies.org/en/education/graduate-opportunities/programs/tropical-butterfly-ecology.html > (May 28 - Jun 10)

Tropical Butterfly Ecology is an intensive, two-week field course welcoming graduate students, advanced undergraduate students, and instructors interested in conducting field work on tropical butterflies and looking to expand their knowledge on butterfly ecology and evolution.

Ecology and evolution of Coleoptera < http://-education.tropicalstudies.org/en/education/graduate-opportunities/programs/ecology-and-evolution-of-coleoptera-beetles.html > (June 5 - 24)

This three-week course is oriented towards graduate students interested in intense training in the collection, identification and inquiry-based research on the largest order of insects, Coleoptera. Single site diversity in tropical rain forests, such as those in Costa Rica, has been estimated to be as high as 14,000 species.

Courses in the works! Spring courses for 2017

- Social Insects (March 2017)

Check out the websites for updates on these courses. Students attending institutions that are members of the OTS consortium pay lower tuition and have top priority for admission and additional scholarships. Students from other institutions are also welcome to apply. For more information about graduate programs and scholarship opportunities, please contact us at graduate@tropicalstudies.org.

Best,

Andrés Santana, M.Sc. Graduate Program Coordinator Organization for Tropical Studies San Pedro, Costa Rica. 676-2050 (506) 2524-0607 ext. 1511 Skype: andres.santana_otscro // twitter: @ots_tropicaledu www.tropicalstudies.org Andrés Santana Mora <andres.santana@tropicalstudies.org>

Panama TunicateEvolution Jun20-Jul4

The Smithsonian Tropical Research Institute, Bocas del Toro Research Station invites you to the next short-course on:

TAXONOMY AND BIOLOGY OF TUNICATES Dates: June 20 - July 4, 2017 Location: Bocas Research Station, Bocas del Toro, Panama

Instructors: Dr. Rosana Rocha, Universidade Federal do Parana, Brasil Dr. Gretchen Lambert, University of Washington Friday Harbor Laboratories, USA Registration Fee: $850 (includes room and board, STRI registration fee, etc.) Some need-based fellowships are available.

Application: Please e-mail your CV, 1 letter of recommendation, and a 1-2 page statement explaining your background and reasons for taking the course, to bocas-researchstation@gmail.com before January 15th, 2017.

To be considered for a need-based fellowship, applicants should send a description of their need, their efforts to obtain funding from other available sources, and a travel budget.

For more information visit: http://www.stri.si.edu/-sites/taxonomy_training/index.html Robert Thacker Professor and Chair Department of Ecology and Evolu-

tion 650 Life Sciences Building Stony Brook University Stony Brook, New York 11794-5245 voice: 631-632-8590 e-mail: robert.thacker@stonybrook.edu

Robert Thacker <robert.thacker@stonybrook.edu>

Portugal AppliedEvolutionaryTheory Nov7-11

The Gulbenkian Training Programme in Bioinformatics

Applications for the bioinformatics training course

AET16 - Applied Evolutionary Theory with Claudia Bank, Rafael Guerrero and Stephan Peischl are open.

Please refer to the course website http://-gtpb.igc.gulbenkian.pt/bicourses/AET16 for details.

IMPORTANT DATES for this Course Deadline for applications: Oct 25th 2016 Course dates: Nov 7th - Nov 11th 2016

Course Description For many of its history, our knowledge of evolution has been based heavily on theoretical models and hypotheses. In the age of novel experimental and technological approaches, we are now increasingly able to evaluate this theory; however, the basics of how and why to develop and analyse a simple model are often forgotten in the process of NGS analysis. This course aims at training evolutionary biologists in classical modelling and teach them ways to approach their own research questions through evolutionary theory.

Primarily through interactive hands-on sessions, complemented by an introduction to the cornerstones of modelling and its application to data analysis, this course will familiarize the participants with ways of approaching a research question with a simple model, and different strategies at gaining insight from the model. In groups of two, course participants will develop and analyse their own toy model in the course and present their findings to the group on the last day. Topics that will be covered in the course include the following:

Why and how are models useful? How to write down/develop a model How simple/complicated should a model be? Which modelling approach/programming language should I use for my question? How to nail down a question with a model Extracting results from an equation/simulation How to evaluate a model using empirical data

Participants can use their preferred programming language during the hands-on sessions, and free access to Wolfram Mathematica will be provided. The instructors have modelling experience using Mathematica, R, Python, and C++.

Best regards Pedro Fernandes

Pedro Fernandes GTPB Coordinator 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>

SaoPaulo Brazil ComparativeEmbryology Nov27-Dec11

Dear Colleagues,

It is my pleasure to announce the third Comparative Embryology of Marine Invertebrates (CEMI) Course that will take at CEBIMAR (Centro de Biologia Marinha da Universidade de São Paulo) in São Sebastião, Brazil from Nov 27th - Dec 11th, 2016. It is a two-week intensive course exploring some exciting local species. Registration is 16 USD (free for USP students) and covers accomodation costs (food and board) during the course, as well as bus transportation from São Paulo to São Sebastião before and after the course. Please, forward the link below to any graduate students interested. Application deadline is September 12th!

CEMI Course Info: http://zoologia.ib.usp.br/-evodevo2/index.php/biz5765/ Cheers, Federico

Federico D. Brown Professor Doutor Departamento de Zoologia Instituto Biociencias Universidade de Sao Paulo Ramal direto: +55 11 3091.0950 http://-www.ib.usp.br/zoologia/evodevo fdbrown@usp.br

UComahueBariloche PhylogeneticMethodsInR Dec12-16

Una introducción a los métodos comparativos filogenéticos en R (An introduction to comparative phylogenetic methods in R) December 12-16 2016 San Carlos de Bariloche, Río Negro, Argentina Instruc-

tor:Dr. Liam Revell More info: Lina Moreno Azócar (morenoal@comahue-conicet.gob.ar)

Thank you so much,

kind regards,

Dra. Lina Moreno Azócar Becaria posdoctoral CONICET Laboratorio de Fotobiología Instituto de Investigaciones en biodiversidad y medio ambiente Quintral 1250 TE: +54 (9 294) 4344642 http://www.researchgate.net/-profile/Debora_Moreno_Azocar/ Lina Moreno Azócar <morenoal@comahue-conicet.gob.ar>

Weggis Switzerland CoevolutionaryInteractions Jan8-13

-WHERE? Alexander & Gerbi Hotel, Weggis, Switzerland

-WHEN ? January 8th - January 13ˆrd 2017

-APPLICATION DEADLINE ? 17th October 2016

-ORGANISERS

-Dr. Amandine Cornille, ETH Zurich, Switzerland (amandine.cornille@gmail.com): main organiser, contact her for any questions.

-Dr. Daniel Croll, University of Zurich, Switzerland (daniel.croll@usys.ethz.ch)

-Prof. Dr. Alex Widmer, ETH Zurich, Switzerland (alex.widmer@env.ethz.ch)

-AIMS and OBJECTIVES

The goal of our 5-days workshop is to bring together an outstanding group of experts that develop conceptual, theoretical and experimental approaches to study the ecological genomics of coevolutionary interactions. These instructors will introduce workshop participants to modern concepts, models and methods that are widely being used or are currently being developed. The first four days of the workshop will consist of lectures and practical demonstrations given by the instructors, followed by hands-on exercises performed by the participants under guided supervision. The lectures will focus on current topics and latest developments relevant for investigating ecogenomics of coevolutionary interactions (see program: inferring co-demographic histories and testing for co-adaptation). Participants will focus on datasets provided by the instructors in the light of new developments. On the fifth day, thematic talk sessions with presentations from invited speakers and selected participants will illustrate current research on the ecological genomics of coevolution. In order to enhance discussions during the five-day workshop, we will also ask participants to present a poster of their own work on the first day to introduce themselves and their research topic.

-PROVISIONAL PROGRAM

Day 1: Computational methods to infer co-demographic histories using genomic data, Dr. Aurelien Tellier (Center of Life and Food Sciences, Technische Universitat Munchen, Munich, Germany).

Day 2 : Computational methods to infer histories of co-divergences using genomic data, Prof. Dr. Alexei Drummond and Dr. Alexandra Gacryushkina (Department of Computer Science, University of Auckland, New Zealand).

Day 3 : Testing co-adaptation using genomic data, Prof. Dr. Eva Stukenbrock (Max Planck Institute, Plon, Germany).

Day 4: Testing co-local adaptation using genomic data, Prof. Dr. Peter Tiffin (College of Biological Sciences, University of Minessota, Falcon Heights, US)

Day 5: Oral presentations on the application of methods and theory for investigating the ecological genomics of coevolution (main invited speaker: Prof. Dr. Dieter Ebert, Zoologisches Institut, Univ. of Basel, Basel, Switzerland + selected oral presentations).

-INFO & REGISTRATION : http://-www.adaptation.ethz.ch/education/gen-ecol-coevol.html -FUNDING

The workshop is co-funded by * Center for Adaptation to a Changing Environment (ACE), ETH Zurich, Switzerland * Swiss National Science Fundation (SNSF), Switzerland

– Post-doc Adaptation to a Changing Environment (ACE) ETH Zurich Institut f. Integrative Biologie Universitatstrasse 16 8092 Zurich Switzerland and from February 2017 Chargee de Recherche CNRS CR2 Genetique Quantitative et Evolution - Le Moulon Ferme du Moulon 91190 Gif-sur-Yvette France

Amandine Cornille <amandine.cornille@gmail.com>

Instructions

Instructions: To be added to the EvolDir mailing list please send an email message to Golding@McMaster.CA. At this time provide a binary six letter code that determines which messages will be mailed to you. These are listed in the same order as presented here — Conferences; Graduate Student Positions; Jobs; Other; Post-doctoral positions; WorkshopsCourses. For example to receive the listings that concern conferences and post-doctoral positions this would be 100010. Messages are categorized on the basis of their subject headings. If this subject heading is not successfully parsed, the message will be sent to me at Golding@McMaster.CA. In addition, if it originates from 'blackballed' addresses it will be sent to me at Golding@McMaster.CA. These messages will only be read and dealt with when I have time. The code 000000 has all channels turned off and hence gets only a once monthly notifcation of the availability of a monthly review pdf file.

To be removed from the EvolDir mailing list please send an email message to Golding@McMaster.CA. Note that 'on vacation', etc, style messages are automatically filtered and should not be transmitted to the list (I hope), but should you wish to avoid the e-mail's your code can be temporarily changed to 000000.

To send messages to the EvolDir direct them to the email evoldir@evol.biology.McMaster.CA. Do not include encoded attachments and do not send it as Word files, as HTML files, as LaTeX files, Excel files, etc. ... plain old ASCII will work great and can be read by everyone. Add a subject header that contains the correct category "Conference:, Graduate position:, Job:, Other:, Postdoc:, Workshop:" and then the message stands a better chance of being correctly parsed. Note that the colon is mandatory.

The message will be stored until the middle of the night (local time). At a predetermined time, the collected messages will be captured and then processed by programs and filters. If the message is caught by one of the filters (e.g. a subject header is not correctly formated) the message will be send to me at Golding@McMaster.CA and processed later. In either case, please do not expect an instant response.

Afterword

This program is an attempt to automatically process a broad variety of e-mail messages. Most preformating is collapsed to save space. At the current time, many features may be incorrectly handled and some email messages may be positively mauled. Although this is being produced by LaTeX do not try to embed LaTeX or TeX in your message (or other formats) since my program will strip these from the message.