



Postdoc opportunity: Pinniped population genomics.

With Dr Joe Hoffman (Bielefeld University, Germany), Prof Oliver Kruger (Bielefeld University, Germany), and Dr Jochen Wolf (Evolutionary Biology Centre, Uppsala, Sweden)

A two-year postdoctoral researcher position is available to work in the groups of Joe Hoffman at Bielefeld University in Germany and Jochen Wolf at the Evolutionary Biology Centre in Uppsala, Sweden.

This postdoc position is broadly embedded in a research project on Galapagos sea lions (*Zalophus wollebaeki*) that Prof Fritz Trillmich and Dr Jochen Wolf started 12 years ago (<http://www.uni-bielefeld.de/biologie/animalbehaviour/trillmich/sealions.html>). Using whole genome re-sequencing data from more than 100 individuals across the entire species range, the postdoc will explore key evolutionary processes such as the genetic basis of speciation, adaptation and fitness. An important feature of this system is the presence of different ecotypes in an essentially sympatric setup (Wolf et al. 2008, Shafer & Wolf 2013). There will also be the opportunity to work on Antarctic fur seals (*Arctocephalus gazella*), opening a comparative axis to the project.

Funding: This postdoc is funded by the German Science Foundation (DFG) for up to two years and includes health insurance. The pay scale is TVL E13 (100%). The postdoc will be based in Bielefeld, but will have considerable flexibility over how much time they spend in Bielefeld and in Uppsala. A joint postdoc will provide you with an excellent opportunity for international travel and collaboration, and experience of working in diverse environments.

The environment: The postdoc will join the Department of Animal Behaviour at Bielefeld University, Germany (www.uni-bielefeld.de/biologie/vhf/index.html) and the Evolutionary Biology Centre, Uppsala University, Sweden (<http://www.ebc.uu.se>). The department of Animal Behaviour in Bielefeld is the oldest of its kind in Germany and currently hosts six principal investigators, seven postdocs and twenty PhD students. It offers a stimulating international environment and an excellent research infrastructure. The working language of the Department is English. Bielefeld is a small city with an attractive historical centre and easy access to the Teutoburger Wald for hiking and other outdoor pursuits. It offers a very high standard of living and is well connected to most major European cities.

The Evolutionary Biology Centre is one of the world's leading research institutions in evolutionary biology. It is part of Uppsala University which has been ranked first place among all European Universities in the subject of biology (CHE European ranking) and bridges a broad variety of disciplines. The scientific environment with numerous seminars, journal clubs and social activities offers excellent possibilities for contacts and collaborations. Dr Wolf's lab is part of the Department of Evolutionary Biology (<http://www.ebc.uu.se/Research/IEG/evbiol>) and addresses fundamental evolutionary questions using 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.uppmx.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, which offers rich opportunities for cultural and outdoor activities. Sweden's capital Stockholm is less than an hour's train ride away.

Qualifications: The successful applicant will hold a PhD degree, have a thorough background in population genetics and/or comparative genomics and be experienced in handling large genome-wide data sets. Population geneticists with a more theoretical background are also encouraged to apply. A high standard of spoken and written English is required.

How to apply: Please provide: (i) a letter of motivation including a maximum 2-page statement of your research interests, relevant skills and experience; (ii) a CV including publication list; and (iii) names and contact details of three referees willing to write confidential letters of recommendation. All materials should be emailed **as a single PDF** file to: joseph.hoffman@uni-bielefeld.de with 'Postdoc application' in the subject line.

The application deadline is October 5th 2015 and interviews will take place in the following few weeks. The start date is flexible and will depend on the timeframe of the most qualified applicant, but would ideally be before the end of this year. For further information, please see www.thehoffmanlab.com and <http://www.ieg.uu.se/evolutionsbiologi/wolf-se> or contact Joe Hoffman (joseph.hoffman@uni-bielefeld.de) or Jochen Wolf (jochen.wolf@ebc.uu.se) with any informal inquiries.

The University of Bielefeld is an equal opportunity employer and particularly welcomes applications from women. Given equal suitability, qualifications and professional achievement, women will be given preference, unless particular circumstances pertaining to a male applicant apply.

For representative publications, please see:

Poelstra JW, Vijay N, Bossu CM et al. Wolf JBW (2014) The genomic landscape underlying phenotypic integrity in the face of gene flow in crows. *Science*, 344: 1410-1414.

Forcada, J. & Hoffman, J.I. (2014). Climate change selects for heterozygosity in a declining fur seal population. *Nature*, 511: 462–465.

Hoffman JI, Simpson F, David P et al. (2014) High-throughput sequencing reveals inbreeding depression in a natural population. *PNAS*, 111: 3775–3780.

Shafer ABA, Wolf JBW (2013) Widespread evidence for incipient ecological speciation: a meta-analysis of isolation-by-ecology. *Ecol Lett*, 16: 940–950.

Ellegren H, Smeds L, Burri R et al. Wolf JBW (2012) The genomic landscape of species divergence in *Ficedula* flycatchers. *Nature*, 491: 756–760.

Wolf JBW, Harrod C, Brunner S et al. (2008) Tracing early stages of species differentiation: Ecological, morphological and genetic divergence of Galapagos sea lion populations. *BMC Evol Biol*, 8: 150.