Job vacancy
at Universität Regensburg | No. 18.114

The Universität Regensburg with its over 20,000 students is an innovative and interdisciplinary campus university that provides a broad variety of research projects and disciplines for German and foreign students. The Professorship for Theoretical Ecology at the Chair for Ecology and Conservation Biology is looking to fill

1. PhD position in statistical forest ecology
2. PhD position in forest modelling / model calibration

starting as early as possible for an initial duration of 1 year, with an intended extension of another 2 years. The 65% positions will be paid according to German public-sector level E13.

Your responsibilities:
1. Analysis of demographic processes in temperate forest ecosystems (with L. Hülsmann):
   The goal of this project is to better understand and predict demographic processes (growth, mortality, recruitment) in temperate forests. To that end, the PhD student will apply mostly statistical, but also simulations models, both based on large forest inventory datasets. The project will be conducted in cooperation with scientists at irstea (Grenoble, France) and partner projects within the bayklif-network.

2. Bayesian calibration and uncertainty in process-based vegetation models (with F. Hartig)
   The goal of this project is to develop and apply Bayesian methods for the calibration and uncertainty analysis of dynamic vegetation models (LPJ-GUESS) and other ecological models (along the lines of Hartig et al., 2012). Case studies are planned in cooperation with partner groups at the TU Munich (Rammig lab) and the Uni Würzburg (Cabral lab).

Both positions are financed through the Bavarian Climate Research Network (bayklif) and integrated in a junior research group (PhD 1, BayForDemo, L. Hülsmann) and a research network (PhD 2, BLIZ, F. Hartig). More details on the projects and our working group at www.bio-vkl.ur.de/theoretische-oekologie/forschung/.

Your profile:
• a university degree that qualifies for a PhD program in Regensburg (MSc oder equivalent)
• either a background in ecology or related disciplines, and an interest in statistical and computational methods; or a background in statistics, mathematics or physics, and an interest to apply quantitative methods in an ecological context
• good knowledge of statistics and R, for PhD 2 ideally also in a general programming language (e.g. C++/Python)
• team orientation and motivation to advance our scientific knowledge about global change ecology
• excellent knowledge of English and good writing skills

We offer:
• a young and dynamic working group with excellent scientific infrastructure and an open, collegial lab atmosphere
• in one of the most desirable cities of Germany

The Universität Regensburg is committed to the compatibility of family and career (for more information, please visit http://www.uni-regensburg.de/equal-opportunities). Severely disabled applicants are given preference in instances where applicants demonstrate an equal level of qualification. Please mention any severe disabilities, if applicable, in the application.

Please send your application consisting of a motivation letter, CV and contact details of at least two academic references electronically in one pdf file before 15. June 2018 to
lisa.huelsmann@ur.de (PhD 1), or florian.hartig@ur.de (PhD 2). Please direct possible questions to the same persons. If you are interested in both positions, please send the same application to both contacts.