YALE PROGRAM IN SPATIAL BIODIVERSITY SCIENCE AND CONSERVATION

Postdoctoral and Analyst Positions in Spatial Biodiversity Science

Several positions (2 years +) are available for projects associated with our new SBSC Program (sbsc.yale.edu) starting spring/summer 2013. For application please email a short cover letter, CV and contact details of three referees (all in one pdf) to roserita.riccitelli@yale.edu with the respective subject lines below. One of the postdoc positions will include the opportunity to contribute to the core research support provided by the SBSC program. For questions contact walter.jetz@yale.edu.

Review of applications will begin 5 Feb 2013 and continue until positions are filled.

■ **Postdoc: Distributions and phylogenetic diversity of freshwater fishes under global change.** This post is for interdisciplinary research on the biogeography, phylogeny and function of freshwater fishes in the face of global change. Funded through the Yale Climate and Energy Institute this is a collaborative project including the labs of Walter Jetz (EEB), Tom Near (EEB) and Peter Raymond (FES). Candidates will have extensive experience in spatial biodiversity modeling, ideally of freshwater systems, and also some background in phylogenetic and trait analysis. Advanced skills in R and GIS and a compelling publication record are a prerequisite. Subject: “Fish Global Change”

■ **Postdoc: Macroevolution of terrestrial vertebrates in space.** Contingent on available funding a postdoc position is available to perform integrative work using recent species-level phylogenies, geographic range and environmental information. The project will mostly be set in the Lab of Walter Jetz (EEB), but involve collaborations within and outside Yale. The successful candidate will have an outstanding publication record and expert knowledge in key phylogenetic and spatial analysis approaches in R. Subject: “Vertebrates”.

■ **Postdoc: Hierarchical ecological modeling and change analysis.** Successful candidates will have superior skills in the analysis of (‘big’) biodiversity and geospatial data, knowledge of Bayesian analysis approaches, and some background in programming (e.g. development of libraries, analysis tools). Projects will include cross-scale models of species distributions/occupancy, niche change analyses and development of dynamic analysis tools. The postdoc will work in the larger Map of Life team (including collaborations with the Cornell eBird project). Subject: “MOL research”.

■ **Programmer: (Bayesian) Spatial Biodiversity Data Modeling.** The Map of Life project is seeking someone with excellent programming skills and a strong interest in implementing new approaches to support the modeling of ‘big’ biodiversity data. The successful candidate will likely have experience in the management of large datasets and in-depth knowledge in most of the following: C/C++, Python, Java, R, MapReduce/Hadoop, SQL/postgresql, etc. We are particularly interested in individuals with experience in coding Bayesian analyses. Part-time work or telecommuting for this position is an option. Subject: “MOL Programmer”

■ **Spatial Biodiversity Data Manager.** The Map of Life project is seeking a qualified candidate to join their international team to help oversee the management (and analysis) of species distribution information and associated metadata. The data manager will interact with contributors worldwide and represent the project at meetings/workshops. Strong background in GIS, spatial analysis and database administration are key (with experience in e.g. Python and postgresql a plus), as are strong interpersonal and communication skills. Subject: “MOL data”.

RESEARCH ENVIRONMENT: The new interdisciplinary SBSC program (sbsc.yale.edu) connects biodiversity scientists from across the Yale campus and has core staff support. Yale has a thriving and growing community of postdocs and graduate students in ecology, evolution and global change science in the EEB Department, the Yale Institute for Biospheric Studies, the Peabody Museum, the Yale Climate & Energy Institute, and the Yale School of Forestry and Environmental Studies. The town and campus are renowned for the classic Ivy League setting, 75 miles north of New York City.