POSTDOCTORAL POSITION IN GLOBAL CHANGE AND SPATIAL MODELING AT UC BERKELEY

A postdoctoral position is available with the Grinnell Resurvey Project under the direction of Professor Steve Beissinger at UC Berkeley in the Museum of Vertebrate Zoology (MVZ). This project is funded by NSF to resample birds and mammals in California at sites originally visited by Joseph Grinnell and colleagues in the early 20th century in order to understand how climate and land-use change have affected species’ turnover during the past century in California.

This position will require implementation of multispecies occupancy models and methods for forecasting the impacts of future climate and land-use change. Candidates should have demonstrable experience analyzing large ecological data sets including occupancy, distribution, habitat, land-use, and/or climate with methods implemented in Bayesian frameworks using Markov chain Monte Carlo simulation, or with machine-learning methods, such as boosted regression trees or Maxent.

The ideal candidate will have the following qualifications:

- A doctoral degree in a relevant subject with a strong record of scientific publications
- Experience in Bayesian and high performance computing (e.g. JAGS, NIMBLE, STAN, cloud computing)
- Advanced knowledge of R and additional programming languages
- Skills in spatial modeling and GIS
- Demonstrated ability to learn and implement new quantitative approaches and think creatively about connections between birds, places, and people
- Ability to work both independently and as part of a team
- Familiarity with birds and/or mammals of North America

This position is based at UC Berkeley and includes competitive salary and health benefits. It is a full-time, 12-month, fixed-term position, with possible reappointment for a second year conditional on satisfactory performance and funding.

Review of applications will begin on 23 March 2020 and the position is open until filled. Interested candidates should send (1) an email describing their research interests and qualifications along with (2) a CV, (3) representative publications, and (4) contact information for two references to Steve Beissinger: beis@berkeley.edu.