Albert Ruhi and Stephanie Carlson in the Department of Environmental Science, Policy and Management at UC Berkeley are seeking a post-doctoral scholar in geospatial data analysis.

The description below is written for ecologists, but there is plenty of scope for methodological development and candidates with a background in statistics and an interest in environmental applications will also be considered.

Please see attached for full position details.

We are inviting applications for a postdoctoral scholar to work on quantification and visualization of climate-driven risk and uncertainty in estuarine food-web dynamics. This position is part of the project Climate-driven food-web mismatches in the San Francisco Estuary, funded by the California Department of Fish and Wildlife (Proposition 1, Agreement # Q2196006). The postdoc will be responsible for synthesizing multiple geospatial data sets from a range of monitoring programs in the San Francisco Estuary, for quantifying probability of spatio-temporal mismatches among the different food-web compartments, and for developing interactive visualizations on food-web level risk (and associated uncertainty) under different biological and climate scenarios. The primary goal of the project is to estimate and forecast responses of different trophic levels to climate change using a readily-available downscaled product (CASCaDE2), and to develop effective ways of communicating risk of disruption of food-web dynamics due to phenological mismatches. The expected products are two peer-reviewed publications with accompanying geospatial open data products (including an interactive R Shiny app).

The successful candidate will work with an interdisciplinary team of researchers led by Drs. Albert Ruhi and Stephanie Carlson at the University of California, Berkeley, including postdoc Dr. Denise Colombano and partners at CDFW (Dr. James Hobbs) and USGS (Drs. Noah Knowles and Lisa Lucas). There will be opportunities to pursue independent lines of inquiry related to aquatic food-web responses to climate variability, and to co-author publications led by other team members. There will also be opportunities to interact with other UC Berkeley freshwater science labs and conservation partners.

Interested individuals should include a 1-2 page cover letter outlining research experience, a current CV, and the names and contact information of three references. Letters of reference may be requested for finalists. The total duration of an individual's postdoctoral service may not exceed five years, including postdoctoral service at other institutions.

Please send applications to Dr. Albert Ruhi (albert.ruhi@berkeley.edu) by October 8th, 2021.

Giles Hooker
University of California, Berkeley

Postdoctoral Scholar – Geospatial ecology
Department of Environmental Science, Policy & Management

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BASIC QUALIFICATIONS
Advanced degree or enrolled in advanced degree program at the time of application.

ADDITIONAL QUALIFICATIONS
PhD (or equivalent international degree) required by the start date.

PREFERRED QUALIFICATIONS (by start date)
Strong quantitative skills and experience with analysis, synthesis, and visualization of geospatial data. Proficiency in at least one programming language (e.g., R, Python) and GIS. Research interests in climate change ecology, physical geography, spatial statistics, and/or data visualization. Demonstrated written and verbal communication skills, ability to think critically and innovatively, and experience leading scientific publications.

APPOINTMENT
The targeted start date for this position is January 3rd, 2022, but some flexibility exists. The initial appointment is for one year, with possible annual renewal for an additional year based on performance and funding availability. This is a full-time appointment and the postdoc will be supervised by Drs. Albert Ruhi and Stephanie Carlson.

SALARY AND BENEFITS
Salary will be commensurate with qualifications and experience level and based on UC Berkeley salary scales: https://www.ucop.edu/academic-personnel-programs/_files/2021/2021-postdoc-salary-scales/t23.pdf. Generous benefits are included: https://vspa.berkeley.edu/postdoc-health-insurance-and-benefits

TO APPLY
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Please send applications to Dr. Albert Ruhi (albert.ruhi@berkeley.edu) by October 8th, 2021.

All letters will be treated as confidential per University of California policy and California state law. Please refer potential referees, including when letters are provided via a third party (i.e. dossier service or career center) to the UC Berkeley Statement of Confidentiality http://apo.berkeley.edu/evalltr.html prior to submitting their letters.

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: http://policy.ucop.edu/doc/4000376/NondiscrimAffirmAct

The Department is interested in candidates who will contribute to diversity and equal opportunity in higher education through their research or teaching.

The University of California, Berkeley has an excellent benefits package as well as a number of policies and programs in place to support employees as they balance work and family.