



**Postdoctoral Scholar – Sustainable Water Management
Department of Environmental Science, Policy & Management**

We are inviting applications for a postdoctoral scholar to investigate methods for balancing human and ecosystem needs via water infrastructure operations. The successful candidate will employ a range of statistical techniques to detect causal networks in water systems based on time-series data. In particular, the postdoc will focus on understanding feedbacks between hydroclimatic conditions, riverine ecosystem integrity, human needs, and reservoir operations; and on applying these inferences to the Lower Colorado River Basin in the context of multi-objective reservoir operation. The postdoc will be part of an interdisciplinary team composed of ecologists, hydrologists, social scientists, and complex systems modelers located in several U.S. institutions: Albert Ruhi (PI, University of California, Berkeley), Sankar Arumugam (North Carolina State University), Xiaoli Dong (University of California, Davis), Caitlin Dyckman (Clemson University), Theodore Grantham (University of California, Berkeley), Lars Olson (University of Maryland), Benjamin Ruddell (Northern Arizona University), and Nicola Ulibarri (University of California, Irvine). The postdoc will lead analysis and synthesis of data, write research papers, and disseminate results. There will be opportunities to pursue independent lines of inquiry within the area of environmental flow science, and to interact with other UC Berkeley freshwater science labs and conservation partners.

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 appointment start date. The candidate may have no more than four years of post-degree research experience by start date.

PREFERRED QUALIFICATIONS

Demonstrated quantitative skills and experience in analyzing large environmental data sets, in time-series analyses (e.g. vector autoregression, convergent cross mapping), and in computer programming (e.g., R, MatLab). Demonstrated written and verbal communication skills, ability to think critically and innovatively, and leadership capacity.

APPOINTMENT

The targeted start date for this position is early Spring 2019, and as soon as January 2019. The appointment is for 18 months. This is a full-time appointment and will be supervised by Dr. Albert Ruhi.

SALARY AND BENEFITS

Salary will be commensurate with qualifications and experience level and based on UC Berkeley salary scales. Generous benefits are included: <https://vspa.berkeley.edu/postdocs>

TO APPLY

Please send a cover letter describing past research accomplishments and future research interests, CV and a list of 3 references by email to albert.ruhi@berkeley.edu

Questions regarding this recruitment can be directed to Dr. Albert Ruhi, albert.ruhi@berkeley.edu