



Open freshwater ecology positions in the Ruhi Lab, August 2023

1) **Postdoctoral researcher: Geospatial modeling of river networks**

We are looking for a computational postdoc to model continental-scale river ecosystem fragmentation, and quantify how fragmentation constrains the ability of river biodiversity to access climate refugia under future climate scenarios. This position is funded by the grant NSF CAREER DEB-2047324, *Drought and metacommunity stability in riverine networks*. The postdoc will work with an interdisciplinary team of researchers led by Dr. Albert Ruhi in the Dept. of Environmental Science, Policy, and Management at UC Berkeley, with partners at the U.S. Geological Survey and the National Park Service. There will be opportunities to pursue independent lines of research related to river biodiversity 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.

Qualifications: A PhD (or equivalent international degree) will be required by the start date. Preferred qualifications include strong quantitative skills and experience with analysis, synthesis, and visualization of geospatial data. Experience characterizing river networks in GIS, and working with downscaled climate projections. Proficiency in at least one programming language (e.g., R, Python). 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 and data products.

Appointment, salary, and benefits: The targeted start date for this position is between November 2023 and January 2024. The initial appointment is for two years, with possible renewal for an additional year. Salary will be commensurate with qualifications and experience level based on UC Berkeley salary scales. Generous benefits are included.

> Send an expression of interest to albert.ruhi@berkeley.edu by October 6, 2023. Please include a cover letter outlining research experience and your current CV.

2) **PhD student: Stream food webs, phenology, and cross-ecosystem subsidies**

The Ruhi Lab will be recruiting next cycle! We are looking for a creative, motivated individual interested in river food webs, phenology, and cross-ecosystem linkages. The PhD student will develop a set of field experiments in streams, focusing on the effects of drought on the magnitude and timing of riverine-riparian linkages. Fieldwork will take place at Pinnacles National Park, with partners at the U.S. Geological Survey and the National Park Service. There will be opportunities to pursue independent lines of research related to river biodiversity 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. For more information on the Environmental Science, Policy, and Management Ph.D. Program at UC Berkeley, see [this website](#).

> Send an expression of interest to albert.ruhi@berkeley.edu by September 15, 2023. Please include your current CV and a writing sample (e.g., academic paper, essay).