

# Daniella Rempe



**Graduate Institution:** University of California, Berkeley

**Location:** Berkeley, CA

**Graduate Discipline:** Hydrogeophysics

**Hometown:** Austin, TX

## Research Interests:

Environmental Geophysics: Advancing geophysical tools to characterize and monitor properties and processes that control water and solute movement in the shallow subsurface.

Fractured Rock Hydrogeology: Developing a mechanistic understanding of subsurface flow processes in heterogeneous media by integrating point hydrologic measurements, geophysical data, and numerical methods.

Critical Zone Development: Improved understanding of the creation and evolution of regolith- the weathered subsurface that actively transmits water- to develop a theoretical basis for predicting regolith hydraulic properties.

## About me:

After studying geosystems engineering and hydrogeology at The University of Texas at Austin, I realized how critical geophysical methods are to solving near-surface environmental problems. Eager to apply petroleum industry advancements to environmental issues, I decided to pursue graduate studies in environmental engineering at UC Berkeley.

Once I completed my masters, I began PhD research aimed at advancing hydrogeophysical techniques used to characterize and monitor water flow in the shallow subsurface. Using geophysical techniques, I'm currently working on developing a mechanistic understanding of field-scale flow processes in fractured regolith and how hydrology might influence the evolution of hydraulic properties in weathered rock.

As a hydrogeology and geophysics student, I spend quite a bit of time outdoors. When I'm not outside collecting data, I'm rock climbing, bouldering, or hiking with my dog, Duke. I'm excited to apply what I am exploring now to a career as a professional researcher and educator.



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