

Using In Situ Cosmogenic Nuclides to Interpret Active Tectonics of Hot Creek Valley, Nevada

California State University, Long Beach



My research is focused on the sparsely studied Hot Creek Valley, where I aim to use in-situ cosmogenic nuclides to obtain the age of a faulted alluvial fan. Determining the fan's age along with its displacement above the valley floor will allow me to estimate the fault's slip rate over time. This will be accompanied by mapping of Quaternary faults across Hot Creek Valley to further document its mode and orientation of modern tectonic activity.



Visitor: Nick Berry

Visit dates: January 18-31 and April 13-24, 2026

I am a master's student from California State University, Long Beach (CSULB) in my first year of school. Under the advisory of Dr. Alyssa Abbey, I plan to compare my findings in Hot Creek Valley to other valleys across the tectonically-extending Basin and Range province.