

# Analyzing Sediment Residence Times in the Eastern Sierra Nevada

*University of California, Merced*



In mountainous landscapes, weathering and erosion play key roles in nutrient cycling and modulating atmospheric CO<sub>2</sub>. However, spatial patterns of weathering and erosion in these areas are complex due to their heterogeneity. My aim is to tease apart climate and topography, because they often co-vary, by examining the effects of local slope on sediment residence times in the weathering zone in the eastern Sierra Nevada.



**Visitor: Seth Gilchrist**

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Seth Gilchrist is a fourth year PhD student at the University of California, Merced. His current work involves studying the effects of local slope on the residence times of rocks in the weathering zone, as well as how boulders and cobbles break down into sediments.