

Priyasha Negi, University of Nevada Reno, Reno, Nevada USA for her project: *Residence Time Controls on Carbon Dioxide Emissions from Petrogenic Organic Carbon Oxidation in Shales*

I am a PhD candidate in the Geological Sciences & Engineering Department at the University of Nevada, Reno, where I work with Dr. Joel S. Scheingross. My doctoral research focuses on understanding how Earth surface processes regulate carbon dioxide release from petrogenic organic carbon (OC_{petro}) oxidation during shale weathering and how this process contributes to the long-term carbon cycle. More specifically, I am investigating how variations in local residence time, which is set by landscape topography influence OC_{petro} oxidation by combining field observations and geochemical analyses.



I grew up in Himachal Pradesh which is part of the north-western Indian Himalayas. Although growing up in the mountains did not initially spark my interest in geology, it has given me a greater appreciation for studying the landscapes I once took for granted. I completed my integrated BS-MS degree in Earth and Climate Science from Indian Institute of Science Education and Research, Pune, India. For my master's research, I investigated changes in chemical weathering and sediment provenance in the Bay of Bengal during last glacial-interglacial cycle, using geochemical and Sr-Nd isotopic analyses.

The Lipman Research Award will support geochemical analyses of samples collected during my PhD research. These measurements are an important part of my project because they allow me to distinguish OC_{petro} from modern organic carbon and directly test my research hypotheses. I am excited to see how this new data strengthens my understanding of shale weathering and contributes to my PhD research.