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I am a master's student working with the Mountain Ecohydrology Group at the University of Nevada Reno. My journey to snow hydrology began with an interest in broader Earth Sciences as an undergraduate student at Dartmouth College, ultimately concentrating on fluvial geomorphology and hydrology as my research focus. After college, I explored hydrologic systems, from the Great Lakes in northern Minnesota to the lava fields in Oregon. I ultimately decided to return to the west because I'm interested in understanding the future of mountainous snowpacks that serve as crucial water resources for many communities.

I approach my research from a Critical Zone perspective, and my goal is to understand the dynamic interactions dictating hydrologic processes integrated from the treetops to the bedrock. My project as a NVSGC Fellow is in partnership with the USFS and Critical Zone Collaborative Network and focuses on snowpack-forest structure interactions, utilizing light detection and ranging (lidar) data from NASA's Airborne Snow Observatory throughout multiple watersheds in the Sierra Nevada. The goal is to determine which forest structures promote snowpack accumulation and retention, a critical understanding with a future of decreased snowpack portended by climate change. My future goals involve continuing applied research projects, working on the nexus of science and policy to continue understanding mountainous systems and inform management practices. This will hopefully involve further collaborations with pioneers in remote sensing technologies like NASA.