

Heather Winslow – biography

I am a 3rd year Ph.D. candidate in the Department of Geological Sciences and Engineering at the University of Nevada, Reno. Broadly, I work on active volcanic arc systems using petrologic and geochemical methods. More specifically, my research utilizes mineral-scale techniques to determine magma reservoir constraints, such as temperature and pressure estimates, as well as magma storage and transport timescales. This work informs the underlying architecture of a system which can be linked to surface observations and ultimately contributes to hazard prediction through a better understanding of precursory signals. My current research focuses on the 2011-12 eruption from the Puyehue-Cordon Caulle Volcanic Complex in the Southern Andes. The 2011-12 eruption disrupted air travel globally and displays ongoing unrest. My research will provide insight toward the system's eruptive triggers, magma generation, the production of continental crust, and will ultimately inform us about the nature of potential future eruptions. Throughout my career I plan to continue with exploratory research on active volcanic systems to better understand their innerworkings and hazards.