

Kellie Wall, Oregon State University, for her proposal: *Localization, longevity, and compositional diversity of intermediate magmatism in the Cascade arc: insights from the Goat Rocks volcanic complex*

Kellie is a PhD candidate at Oregon State University, working with Dr. Anita Grunder to reconstruct the life cycle of a young but extinct andesitic volcanic complex in the beautiful Goat Rocks Wilderness of Washington State. Kellie uses radioisotopic dating techniques such as $^{40}\text{Ar}/^{39}\text{Ar}$ and U/Pb zircon dating, and geochemical analyses of bulk rocks and their minerals, to investigate magmatic processes and their timescales over a roughly 3-million-year eruptive history in this geologically complex region of the southern Washington Cascades. As a side project this year, Kellie worked with fellow PhD students Allan Lerner (UO) and Emily Cahoon (PSU) to organize and host the first Volcanology Students of Oregon (Volc-OR) conference, where students from nearby universities presented their volcano-related research and attended workshops on analytical techniques and professional development.



Before beginning her work at OSU, Kellie earned her B.S. in Geology at Washington State University (go Cougs!) and worked with Dr. Michael Rowe to develop an XRD methodology for determining eruption styles of basaltic volcanic rocks based on their groundmass crystallinity, with relevance to geologic research on Mars. She also spent a

summer in Washington D.C. working with Dr. Elizabeth Cottrell and Dr. Fred Davis at the Smithsonian National Museum of Natural History, investigating the oxygen fugacity of mantle xenoliths erupted at volcanic islands in the Pacific.

When she isn't collecting rocks in the mountains or working with geochemical data on her computer, Kellie enjoys playing in her garden and finding new ways to lead a more eco-friendly lifestyle.