

Devin Forgue, University of Wyoming, Laramie, Wyoming, USA for his project: *Basalts of Northern Yellowstone: Magma Genesis, Recharge, and Intracontinental Hotspot Volcanism*.

Devin Forgue is a Ph.D. student in Geology at the University of Wyoming, where he studies isotope geochemistry and igneous processes in various igneous systems. His current research focuses on the bimodal volcanism and basalts of the northern Yellowstone Plateau Volcanic Field, and on the processes that generate magma in hotspot systems. More broadly, he is interested in how mantle-derived magmas record interactions among mantle sources and evolving crustal magmatic systems.

His research combines field geology and petrography with major- and trace-element geochemistry, geochronology, and radiogenic isotopes to investigate the origins of Yellowstone's basaltic magmas and their evolution during storage, transport, and interaction with the continental lithosphere. By examining basaltic volcanism within Yellowstone's broader magmatic history, his work aims to constrain mafic recharge, crust-mantle interaction, and the geochemical evolution of magma in long-lived continental volcanic systems.

A major part of his doctoral work is developing integrated geochemical and isotopic frameworks that link field observations, laboratory measurements, and multivariate AFC modeling to better understand complex igneous systems. Together, these procedures allow individual samples to be evaluated within the larger spatial and temporal context of Yellowstone magmatism and continental volcanism.

Devin is deeply grateful for the Howard and Jean Lipman Foundation Student Research Grant and is excited for the opportunity it provides in funding critical laboratory costs. This grant will directly advance his broader goal of using isotope geochemistry to understand how magmatic systems evolve over time across various tectonic and igneous environments.

