

Brice Liedtke, Northern Arizona University, Flagstaff, AZ, for his project: *Investigating magmatic flux during the incubation phase of a continental ignimbrite flare-up.*



Brice is from Carson, a small town in southern Washington state, where he grew up admiring the local geology without knowing anything about it. Eventually, he found a small agate in a local river, which catapulted him into the world of geology and the joy of learning more about the world around him. He obtained a B.S. in geology from Central Washington University in 2024 and is excited to conduct focused geological research during his master's degree at NAU.

Brice is a first-year master's student under Dr. Casey Tierney at Northern Arizona University. His work is focused on studying the magmatic evolution of the continental ignimbrite flare-up that produced the Platoro Caldera Complex and greater San Juan Volcanic Field (SJVF). He aims to understand the changes in magmatic flux during key periods of the flare-up, as it evolved from an initial phase dominated by intermediate composition lava flows to an explosive, caldera-forming, ignimbrite phase. The geochemistry and geochronology of zircon crystals found in these rocks will be the main source of the information needed to complete the research.

Receiving the Lipman Student Research Grant is a great privilege and will be critical in utilizing the laser ablation split-stream inductively coupled plasma mass spectrometer (LASS-ICP-MS) on zircon.