Mollie Pope, University of Wyoming, Laramie, WY, for her proposal: *Apatite as an indicator of water contents in magmatic source regions*

Mollie Pope is a second-year MS student at the University of Wyoming, where she studies petrology and geochemistry with Dr. Jay Chapman and Dr. Simone Runyon. Her research aims to constrain H2O content in magmatic source regions through the development of apatite-based hygrometers based on the partitioning of F-Cl-OH in magmatic apatite from both volcanic and plutonic systems. Her research focuses on magmatic apatite from the Caetano Caldera near Cortez, Nevada. She is using Fourier transform infrared (FTIR) spectroscopy and electron microprobe analyses (EMPA) to quantify the magmatic volatile content in apatite from related intrusive and extrusive igneous units.

Mollie first became interested in petrology at Union College, where she graduated in 2019 with a B.S. in Geology. Since then, she’s also worked with the National Park Service, U.S. Forest Service, and participated in a Fulbright Student Research Grant in Cape Town, South Africa. Mollie is grateful for the support from the Lipman Research Fund and the MGPV Division and will use the funds to support analytical costs in the next year.