Jacob Klug, University of Wisconsin-Madison, Madison, WI for his project: Volatile evolution of post glacial rhyolites at Laguna del Maule, Chile

Jacob Klug is a PhD student entering his second year at the University of Wisconsin-Madison. His work is being completed under the guidance of Dr. Bradley Singer. He is currently studying two active volcanic systems in Chile, Planchon- Peteroa volcanic complex and Laguna del Maule Volcanic Field. The broad goal of both studies is to better understand the geochemical evolution and the role of volatiles in each system. He will use funding from MGPV and GSA for SIMS measurements of H$_2$O, CO$_2$, and trace element concentrations of melt inclusions in plagioclase, quartz, and olivine from Laguna del Maule. Trace element and volatile concentrations will be used to characterize volatile saturation prior to eruption, secular evolution of volatile concentration and composition over time, pressure conditions, explosivity, magma recharge, and rhyolite generation.

Prior to attending the University of Wisconsin-Madison Jacob got his undergraduate degree in Geology at St. Norbert College in De Pere, WI. He always had an interest in the sciences, but after taking an introductory geology course his freshmen year he found geology to be the perfect synthesis of disciplines. He decided he wanted to pursue a graduate degree studying the geochemistry and petrology of volcanoes after a field trip to Nicaragua peaked his interest. In his free time he enjoys hiking, fishing, and spending time with family and friends. He would like to thank both GSA and the MGPV division for supporting his research.