Rebecca Degraffenried, University of Hawai'i at Manoa, Manoa, HI for her project: *Using Volatile Diffusion Profiles in Melt Embayments to Estimate Magma Ascent Rates*

Rebecca is a second year PhD student at the University of Hawaii at Manoa with Dr. Thomas Shea. Her study of geology began just 90 miles north of her hometown of San Antonio, Texas at the University of Texas at Austin, where she obtained her B.S. in General Geology. Throughout undergraduate career, she worked on various projects in different labs and discovered a love for research, which led to her pursuing an M.S. in Geology at the University of Alaska Fairbanks. Although she knew from a young age that she wanted to study volcanoes, she was unsure of what



she wanted to study specifically in the broad field of volcanology. While in Alaska, she worked on a project that used experimental petrology to study rhyolitic magma degassing during ascent to the Earth's surface. This turned out to be a topic and method that greatly interested her, and she decided to pursue this avenue of research for her PhD. Her research focus has since broadened to include other factors that influence conduit dynamics during magma ascent. The lan S.E. Carmichael award will provide funding for her efforts to experimentally calibrate previously developed methods of calculating magma ascent rate, which will make up a significant portion of her dissertation. Outside of her studies, she enjoys both playing and watching soccer, as well as collecting rocks from every place she visits.