

Xinkai He, University of Washington, Seattle, WA for his project: *Sulfur isotope constraints on volatile degassing and redox changes in arc magmas*



Xinkai He is a second year PhD student in the department of Earth and Space Sciences at UW, advised by Dr. Michelle Muth. He is interested in studying magmatic processes using petrological and geochemical records in rock-forming minerals and mineral-host melt/fluid inclusions. His current project revolves around volatile degassing-induced element partitioning and redox changes in basaltic-andesitic magma. His work contributes to better understanding in Sulfur behavior and ore formation in trans-crustal systems.

He earned his B.Sc in geology from Tongji University, China, and MPhil from the University of Edinburgh, UK, where he used trace elements in mantle olivine to reconstruct metasomatism processes. Outside of research, He enjoys photographing, music and soccer.

He is grateful to the generous support of Howard and Jean Lipman Foundation and the GSA MGPV for enabling his work on S isotopic fractionation during magmatic degassing.