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Brief Summary

The purpose of my MRIWA- and industry-supported project is to better understand the tectonothermal evolution of the Fraser Zone by using a combination of petrochronology, chemical maps, and thermobarometry. The Fraser Zone, a lithotectonic domain within the Albany Fraser Orogen, contains several significant economic mineral deposits. Further identification of viable base metal prospects in the region is complicated by a thick regolith cover in many areas, limiting area and obscuring the full extent of the region's true metallogenic potential. Past interpretations of mineralisation within the Fraser Zone were primarily based on the presence of high-grade metamorphic rock and comparisons with adjacent formations of similar age and origin. Recent developments in geophysical and structural modelling, however, allow for improved resolution of subsurface geologic structures and mineralisation patterns and may enable a better understanding of the geologic history

Education: Bachelors of Science, Earth Science from University of California, Santa Barbara

Research interests: metamorphic petrology, petrochronology, tectonics

Thesis title: Tectonothermal Evolution of the Fraser Zone

Supervisors: Tim Johnson, Chris Clark, Chris Kirkland, Katy Evans

Conferences: "Using multiple geochronometers to better constrain the geologic events in central Himalayan granites" (GSA 2019,)
Best student talk in Geochronology division