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Ph.D Candidate

Metamorphic fluid generation in the Pontiac Subprovince (Superior Craton, Canada) and implications for orogenic gold mineralization.

Description

The Pontiac Subprovince is an Archean metasedimentary-granitoid-gneiss terrane, in the Superior Craton, Canada. It is separated from the Abitibi Greenstone Belt by the Cadillac-Larder Lake Fault Zone (CLLFZ), a world-renowned gold district. My Ph.D. project aims to constrain the extent to which the fluids released during the Barrovian metamorphism of Neoproterozoic metasediments from the Pontiac Subprovince contributed to significant gold endowment in the CLLFZ. Further constraining the metamorphic evolution of the Pontiac Subprovince will also provide an excellent opportunity to better understand its geodynamic significance.