

Catarina da Paz, the University of Waterloo, Waterloo, Ontario, Canada for her project: *In Situ Lu-Hf Garnet Petrochronology of the Fleur de Lys Supergroup, Newfoundland*.

Catarina da Paz is a first-year PhD student in the Department of Earth and Environmental Sciences at the University of Waterloo, Canada, working under the supervision of Dr. Chris Yakymchuk. Her research combines metamorphic petrology, petrochronology, and structural geology to investigate how rocks record tectonic processes through time.

Her doctoral research investigates the Ordovician Lushs Bight oceanic tract in Newfoundland, an arc sequence that records complex magmatism, deformation, and metamorphism. By integrating structural analysis, igneous and metamorphic petrology, and geochronology, she aims to unravel the tectonic evolution of this oceanic terrane.



A second component of her work focuses on the Fleur de Lys Supergroup, located on the Baie Verte Peninsula, Newfoundland, which records a polycyclic metamorphic evolution linked to the Ordovician Taconic orogeny. Through her Lipman Research Grant, she will integrate in-situ Lu-Hf geochronology of garnet growth zones with mineral chemistry to constrain the timing and duration of metamorphism and reconstruct a pressure-temperature-time path for the region.

Before starting her PhD in Canada, she completed her B.Sc. in Geology and M.Sc. in Earth Sciences at the University of São Paulo, Brazil. Her previous research explored thermodynamic modelling and U-Pb zircon petrochronology to unravel the tectonometamorphic history of a Neoproterozoic collisional nappe system. This strengthened her interest in metamorphic petrology and provided a foundation for her current work.

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