

Anjali Jarvis, University of Waterloo, Waterloo, Ontario, Canada for their project: *Reconstructing Pre-Grenvillian Crust Through the Powassan Batholith*.



Anjali Jarvis is a first-year MSc student at the University of Waterloo, advised by Dr. Chris Yakymchuk. Her research investigates Mesoproterozoic crustal conditions through a detailed study of the Powassan batholith, an A-type granitoid body emplaced prior to Grenvillian orogenic processes. Motivated by broader questions surrounding crustal evolution, Anjali integrates field observations, petrography, whole-rock geochemistry, zircon U–Pb geochronology, and petrological modelling to characterize the Powassan batholith and assess its significance within mid-Proterozoic tectonics. The Mesoproterozoic represents an anomalously hot interval in Earth history, her work aims to refine models of A-type magmatism, crustal thermal evolution, and lithospheric dynamics preceding the Grenville Orogeny, contributing to a more comprehensive understanding of Proterozoic

tectonic regimes.

Anjali received her Bachelor of Science from the University of Toronto in Geology. While there, she completed a thesis titled “Raindrops of the Mantle Lithosphere”, which used analogue and numerical models to better understand the fluid dynamics of the mantle and mantle lithosphere in orogenic regions with thickened crust, particularly in Central Anatolia, Turkey, supervised by Dr. Russell Pysklywec and Dr. Tasca Santimano. During her undergrad, she also spent a summer in Erfurt, Germany at Fachhochschule Erfurt studying the paleoenvironment of the Thuringian Forest using soil samples with Dr. Bjoern Machalett. These experiences shaped her interdisciplinary approach to crustal evolution, combining fieldwork, modelling, and geochemical analysis to address tectonic and thermal processes in Earth’s lithosphere.

Beyond her academic work, Anjali enjoys reading, crafting, playing badminton, and spending the rest of her time in the woods!