

## Seminar Series Winter 2023

Hybrid
Alex 265

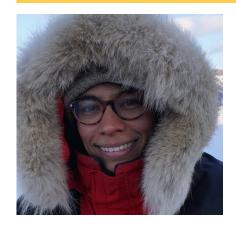
Thursday,
April 27

3-4pm

## Dr. Jackie Goordial

School of Environmental Sciences, University of Guelph

Left out in the cold: the microbial ecology of cryophilic life



Light refreshments will be served

**Dr. Jackie Goordial** is an **environmental microbiologist**, a CIFAR Global Azrieli scholar in the Earth4D program, and coorganizer of **Polar Impact**, whose mission is to support Black, Asian, Indigenous, people of color, and minority ethnic professionals in the polar research community.

Microorganisms that are metabolically active and that can replicate at sub-zero temperatures exist in cryoenvironments nearly ubiquitously on our planet. This talk will discuss Canadian Arctic permafrost where cold-adapted microbiota are thriving, with potential implications for our entire planet. I will also discuss arid, Antarctic permafrost settings, where the limits of active microbial life are being encroached upon. Finally, I will touch on how an increased understanding of cryophilic lifestyles on Earth will also help inform how (and where) we look for potential microbial life on cold planetary bodies in our solar system such as Mars, Europa, and Enceladus.

