



# BiophysTO Lunchtime Seminar Series

Date

Thursday, Feb. 10, 2022  
12:00 – 1:00 pm

## Dr. Benjamin Gilbert

Department of Ecology and Evolutionary Biology  
University of Toronto

## Species coexistence and the distribution of species diversity

Most ecosystems in the world host a stunning amount of species diversity, and ecologists have proposed numerous mechanisms that could sustain this diversity. Modern coexistence theory synthesizes many of the proposed mechanisms and, in doing so, isolates those processes that promote coexistence from those that limit it. In this seminar, I will first show the usefulness of modern coexistence theory by testing a prominent hypothesis about species diversity and how it is impacted by invasive species. I will then discuss how our research has identified shortcomings to modern coexistence theory and present theory designed to address these shortcomings.

**Zoom Link:** <https://utoronto.zoom.us/j/83793936562>

Host: Jeremy Rothschild



Seminar  
Sponsors

UTSG

Biochemistry

Physics

Chemistry