

Biology 4999E
Potential Supervisors 2024-2025

, Ext. 87563, paulmensink@uwo.ca, NCB 443

Research Area: Marine ecology and Educational Technology

Projects will be data related (no lab or field work) and able to be completed remotely and online. Projects will explore a long-term datasets in the abundance of marine species from systematic and haphazard surveys. Students will focus on elucidating the complex relationships between multiple species and across developmental life stages (e.g., juvenile stages versus adults). In addition, there will be an emphasis on examining how temporal variation in abiotic variables (e.g., temperature) determines the abundance and distribution of marine populations. Students will be responsible data quality control, data management, data visualization and data analysis and will be working primarily in R.

, Ext. 84505, nmhatre@uwo.ca, BGS 3023/3027

Research Area: We study how different animals, particularly spiders and crickets, communicate using sound and vibration. Our work is interdisciplinary, combining biology, physics and includes experimental and simulation based approaches.

Further details are at <https://www.natashamhatre.net/>

, Ext. 81467, gtaylor8@uwo.ca, BGS 3072

Research Area: Evolution and ecology of animal design (biomechanics)

Ext.86470, rthoma2@uwo.ca, MSA 3203

Research Area: Functional foods production, sensory perception, development, safety and preservation; use of nanotechnology to enhance plant performance or remediation in Boreal Ecosystem; lipid metabolism in environmental stress biology; Influences of gut microbiome on brain lipid metabolism and brain health; chemometrics and lipid modeling/lipid bioinformatics/foodomics/food metabolomics; Increase yield, nutritional and value-added production in control systems agriculture and alternative forage production systems; sustainable functional food production in hydroponics (sprouted fodder, herbs and vegetable production)

Ext. 88647, rgthorn@uwo.ca, BGS 3047

Research Area: Various projects in fungal systematics and ecology

, Ext. 86570, gthomp6@uwo.ca, BGS 2060

Research Area: Evolutionary biology, sociobiology, honey bees

Ext. 88317, lzanette@uwo.ca, CB 207

Research Area: Predator-, Ext. 86570,

, 226-234-3450, Frederic.Marsolais@agr.gc.ca

Research Area: Protein chemistry of pulse crops

We recently identified a gene expressed in the seed coat of common bean involved in the