

Available graduate positions in the Integrative Wildlife Conservation lab at Trent University

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The IWC lab conducts cutting-edge research on the conservation biology and population ecology of plant and animals, in an effort to address some of the major environmental challenges facing the world today. The lab uses state-of-the-art instruments like GPS transmitters and accelerometers to track animal states and interactions, drones and remote sensors to monitor forest health and the effects of climate change, and genomics and bioinformatics to assess cellular-level responses to stressors like disease or predation risk. We work

on species ranging from Canada lynx to soil microbes and in environments as variable as the boreal forest of the Yukon to the desert of Namibia.

Graduate positions will be based at Trent University in Peterborough, Ontario as part of the Environmental and Life Sciences Graduate Program (<http://www.trentu.ca/els/>)

Projects available for 2023-24

- PhD – Spatial and behavioural dynamics of Canada lynx in response to the 10-year snowshoe hare cycle
- PhD – Population ecology of snowshoe hares in response to climate change
- PhD – Climate change impacts on boreal forest health and productivity
- Ph.D. – Population status and conservation biology of softshell turtles (pending funding)
- Ph.D. – Behavioural, physiological and genomic responses of amphibians to stressors like predators and pathogens

- M.Sc. - Genome assembly and phylogeny for conservation of at-risk Lithops spp. plants
- Ph.D. - Conservation biology and viability of isolated Lithops populations

*Note that some projects listed at the PhD level (preferred) could be subdivided into components that are suitable for an M.Sc. thesis

