

## Graduate assistantships in fish evolutionary genetics and computational biology

The Mandeville Lab in the University of Guelph Department of Integrative Biology is recruiting 1-2 graduate students (desired start date summer/fall 2019).

Research in the Mandeville lab focuses on variation in evolutionary processes across geographic replicates and through time. Understanding how processes like reproductive isolation and gene flow vary is essential for understanding how biodiversity arises and is maintained, and is also crucial for conservation of threatened species. I work primarily on fish and in aquatic systems, and often collaborate with fisheries managers.

Possible project topics include: 1) Identifying mechanisms mediating variable outcomes of hybridization, 2) Quantifying sex-biased processes associated with hybridization outcomes, and 3) Characterizing associations between anthropogenic disturbance and genetic structure of aquatic species. Specific projects will be identified collaboratively by the student and the PI.

Motivated applicants with strong background in evolutionary biology, ecology, genetics, or related fields are encouraged to apply. Desired qualifications include the ability to balance working independently and collaboratively, excellent work habits, and strong writing skills. All projects will involve generating high resolution genomic datasets that require computational approaches, including programming and high performance computing. No prior computational experience is required, but applicants must be willing to learn and excited about building their computational skillset. Due to funding constraints, Canadian students (including permanent residents) will be given priority.

To apply, please send a letter of interest, CV, transcript (unofficial is fine), and contact information for 3 references to Dr. Liz Mandeville, emandevi@uoguelph.ca, by February 22, 2019.