

Tam Ly

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Education

University of Toronto September 2020 – June 2025 (expected)

- H.B.Sc. Quantitative Biology, Mathematics, Statistics
- cGPA: 3.80
- Relevant Coursework: Quantitative Methods in Biology; Linear Algebra; Real Analysis; Complex Variables; Ordinary Differential Equations; Data Analysis; Statistical Inference and Probability

Awards

EEB USRA for BIPOC Students (\$7500) May 2023

Awarded by the University of Toronto's Department of Ecology & Evolutionary Biology to conduct a full-time research project during Summer 2023.

Dean's List Scholar 2021, 2022, 2023

Awarded to University of Toronto's Faculty of Arts & Science students who obtain a CGPA of 3.50 or higher after completing their fifth, tenth, fifteenth, or twentieth degree credits.

Research Experience

Research Trainee May 2023 – August 2023

- Received \$7500 USRA to work in the Osmond Lab with Professor Matthew Osmond in the Department of Ecology & Evolutionary Biology at the University of Toronto.
- Studied partial differential equation modeling adaptation of populations to a changing environment and derived analytical formula for mean fitness and critical rate of environmental change.
- Participated in weekly lab meetings discussing mathematical population genetics research.
- Developed a general model and presented findings at the end of the program.

Research Assistant August 2022 – November 2022

- Worked in the Agrawal Lab with PhD student George Sandler in the Department of Ecology & Evolutionary Biology at the University of Toronto.
- Conducted preliminary experiments investigating the effect of sex on plant area and number of cupules.
- Examined experiment results using Welch's two sample t-tests in R.
- Analyzed growth data for the main experiment investigating the effect of asexual and sexual modes of reproduction on fitness by taking measurements of plants using ImageJ.
- Performed data entry of growth measurements using Excel.

Work-Study Plant Biology Technician May 2022 – August 2022

- Worked in the Agrawal Lab with PhD student George Sandler in the Department of Ecology & Evolutionary Biology at the University of Toronto.
- Maintained samples of liverwort *Marchantia polymorpha* and duckweed *Lemna minor* and *Spirodela polyrrhiza*.
- Set up recombinant and asexual lines for the field experiment.
- Assisted in maintenance of stocks and general lab maintenance.

Skills

Programming Experience: Python, R

Additional Experience

Retail Specialist, Krispy Kreme Doughnuts July 2020 – July 2022

- Guaranteed customer satisfaction by managing concerns, responding to feedback, and providing a great customer experience.
- Fulfilled customer orders of doughnuts and drinks while maintaining quality control by ensuring all products are handled with care.
- Operated a cash register/POS system and processed sales meticulously during periods of high volume.
- Achieved restaurant cleanliness by performing frequent cleaning on floors and tables, sanitizing equipment, and servicing restrooms.

Volunteer Notetaker for Accessibility Services

Winter 2023