

# Cameron Kerr

## EXPERIENCE

### Frederickson Lab, University of Toronto — Student Researcher

September 2023 - PRESENT

Examining genetic data sets derived from Duckweed microbiomes to investigate shifts in microbiome composition over time. Using comparative genomic techniques for triploid Duckweed genome assembling.

### Cohere, Toronto — Data Quality Specialist

August 2023 - September 2023

Optimizing large language models through machine learning data audits and text-based corrections. Annotating and identifying opportunities for model improvement.

### Princess Margaret Cancer Research Centre, Toronto — Student Researcher

July 2019 - September 2023

Running a research project on tracking the T cell repertoire of 9 melanoma patients. Running statistical analysis and data visualization on genetic sequencing data. Manuscript is currently under review for publication. GitHub Repo: <https://github.com/pughlab/CapTCR-TIL-Tracking>.

### University of Toronto Mississauga, Mississauga – Student Researcher at the Westwood Lab

March 2019

Participated in a stint as a part of STEM Fellowship in the Westwood lab focusing on the role of heat shock factor in flies. Assisted in gel electrophoresis, fly sorting, and fluorescence microscopy.

## EDUCATION

### University of Toronto , Toronto — B.Sc.

September 2021 - PRESENT

Third year student enrolled in the Quantitative Biology major, Mathematics major, and Statistics minor. Science writer for The Varsity school newspaper. Laurence Vaughan Smith Scholarship, University of Toronto Scholar – Rogers Scholarship, New College Council In-Course Scholarship.

## VOLUNTEERING

### West Park Hospital, Toronto – Clinical records and recreational therapy volunteer

June 2023 - PRESENT

Aided in digitizing clinical records for all patients in the hospital. Assisted in recreational therapy for patients as well as directing patients and visitors throughout the hospital.

### GLO Sanctuary, Manitowaning – Animal shelter volunteer

August 2023

Cleaned stalls, picked paddocks, washed baths and bowls, and helped provide care for animals at an animal sanctuary on Manitoulin Island.

## PROJECTS

### Immune 2.0 — Predicting T-cell binding

Built recurrent neural network to predict epitope binding in T-cells. Interviewed by Laura Deming.

### Various Research Proposals — Project SELECT and EVacc

Project SELECT: Engineering viral vector for CAR transduction on T-memory stem cells.

EVacc: Bacteria-based production of variable antigens as an evolving vaccine.

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## SKILLS

R

Python

Unix / Linux

Academic writing

Data analysis

Mathematical modeling

HTML / CSS

ArcGIS

## AWARDS

Pioneer Winner June 2019 – Won worldwide incubator startup competition Pioneer for project Immune 2.0.

First Place UofT SSSCR Case Competition – Won research proposal case competition with Team XIST.

## INTERESTS

Mountain biking, Piano, Hockey, Baseball