

Education

University of Toronto 2017-2018

M. Sc., Statistics

- Faculty Advisor : David Duvenaud

University of Toronto 2016-2017

M. Sc., Physics

- Supervisor : Dylan Jones
- Topic : Predicting the Planetary Boundary Layer Depth

University of Toronto 2011-2016

B. Sc. Hons. Mathematics – with Distinction

Specialist : Mathematics and Applications in Physics

Major : Statistics

Research

University of Toronto Summer 2017

Research Assistant

- Conducted original research in atmospheric physics.
 - Used bayesian neural networks to learn a functional relationship between the planetary boundary layer depth and physical quantities commonly measured at weather stations such as temperature, wind speeds, surface pressure specific humidity and solar intensity.

Teaching

Department of Statistics, University of Toronto 2017-

Teaching Assistant, STA257 : Probability and Statistics I

- led tutorial of 50 students on Probability Theory and Statistics

Teaching Assistant, STA220 : Introduction to the Practice of Statistics

- Assisted with class activities, marked Term Test, held office hours

Department of Mathematics, University of Toronto 2015-2017

Teaching Assistant, MAT135 & MAT136 : Calculus I&II

- led tutorial of 30 students on differential and integral calculus

Department of Physics, University of Toronto 2015-2017

Teaching Assistant, PHY131 & PHY132 : Intro to Physics I & II

- supervised 1st year physics practicals with 36 students

Awards

University of Toronto Fellowship \$18, 000 2016-2017

Programming

Python *Numpy*, *TensorFlow*, *Autograd* ; R

Github : github.com/flame02

Graduate Courses :

CSC2515H – Introduction to Machine Learning A+

CSC2545H – Kernel Methods and Support Vector Machines A+

CSC2546H – Computational Neuroscience A+

PHY1520H – Quantum Mechanics A

PHY1491H – Current Interpretations of Quantum Mechanics A-

PHY2502H – Climate System Dynamics A-