

ANTON SUGOLOV

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Toronto, ON

EDUCATION

- University of Toronto, St. George** *Sep. 2020 - Present*
HBSc. Mathematics and Statistics *3.82*
- Third year pursuing Mathematics specialist and Statistics major.
 - Courses include Machine Learning, Data Analysis, Software Design, PDE, ODE, Analysis, Probability.

EXPERIENCE

- Machine Learning Research** Nov. 2022 - Present
PAIR Lab, University of Toronto *Toronto, ON*

- Working towards causal discovery in physical systems using energy based models.

- Statistical Genetics Research Assistant** June 2020 - June 2021
University of Toronto *Toronto, ON*

- <https://www.biorxiv.org/content/10.1101/2022.09.03.506492v1>
- Created open-source tutorial for running Genome Wide Association Studies using publicly available 1000 Genomes gene expression data.
- Used PLINK v1.9, R for quality control, association tests, and principal component analysis on genetic data.
- Lead a workshop replicating GWAS results for 15 students with an introductory understanding of statistics.

PROJECTS

Machine Learning

- Completed Kaggle courses and exercises.
- Trained deep-Q RL models with TensorFlow Keras and Numpy for OpenAI gym environments.
- Interested in ML theory, especially the universal approximation of arbitrary continuous non-linear functions.

- Course Scheduling Application** December 2021
CSC207: Software Design

- Created a Java-based course scheduler using the UofT API that allows students to generate schedules with specific parameters (exclude conflicts, enforce times with no classes, minimum RateMyProf ratings).
- Implemented SOLID design principles, design patterns, and used clean architecture to organize control of calls.
- Used GitHub workflow to collaborate with the team.

TECHNICAL STRENGTHS

Languages & Markup	Python, R, Java, HTML, L ^A T _E X
Packages	Numpy, Pandas, Sklearn, TensorFlow, PyTorch
Other	GitHub, Arch Linux

HONOURS

- Regents Scholarship** 2021, 2022
Victoria College

- In-course scholarship for academic merit.