

YUCHEN WANG

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EDUCATION

University of Toronto

Sept. 2017 - Present

Honour's Bachelor of Science

Specialist in Computer Science (Machine Learning), Major in Statistics, Minor in Mathematics

Cumulative GPA: 4.00/4.00, Course Average: A+

SCHOLARSHIP AND AWARDS

University of Toronto Excellence Award (UTEA) \$6,000

May 2020

The Dorothy Walters Scholarship \$600

Dec. 2019

This scholarship is awarded to eighteen students with the most outstanding academic performance among more than 6300 undergraduates in Woodsworth College.

University of Toronto Dean's List Scholar

Fall 2017 - Present

WORK EXPERIENCE

Vector Institute

April 2020 - Present

Machine Learning Research Student

Project: Online hyperparameter-tuning

Applying hypernetworks to auto-tune hyperparameters in Bayesian Neural Networks during a single run.

Supervisor: Prof. Roger Grosse

University Health Network, University of Toronto

May 2019 - Dec. 2019

Machine Learning Research Student

Project: Post-Transplant Complication Mortality Prediction Using Deep Learning from Longitudinal Electronic Health Records Data

Designed a data processing pipeline and engineered a sequential model using Artificial Neural Networks that accurately predicts 1-year outlook cause of death with ~ 0.8 auc, 2-year and 5-year outlook cause of death with ~ 0.7 auc.

Supervisor: Prof. Bo Wang

DHC Software Co. Ltd, Xi'an, Shannxi, China

May 2018 - July 2018

Web Development Intern

Engineered in the Oracle database for *Office Automation system for Shannxi Yanchang Petroleum* using SQL queries and consulted with customers to report defects in the system.

COURSES

Core Courses

Advanced Calculus (A+)

Linear Algebra II (A+)

Probability I (A)

Algorithm Design and Analysis (A+)

Operating Systems (A)

Graduate-Level

Stochastic Processes (A+)

Statistical Methods for Machine Learning II (A+)

Neural Networks and Deep Learning (A+)

Methods of Data Analysis 1 (A+)

Computer Graphics (A+)

PROJECTS

Project X Machine Learning Research Competition

Sept. 2020 - Nov. 30 2020

Led the UofT team to develop a new neural ordinary differential equation architecture that learns the dynamics of time series with multiple predictors (paper in review). [preprint](#)

ASA Datafest 2020

June 2020

Built GRU layers on top of the RoBERTa base to classify sentiment on Twitter, then explored how the U.S. general public responds to breaking news in COVID-19 pandemic. (Honourable mentions)

Mars Game Platform

Jan. 2019 - March 2019

An open-source Game Platform that contains three games and a database in cloud that stores user accounts & scores. Implemented games Sliding Tiles and Sudoku. Produced UI designs in Android. Created tests and documentations.

UofT Notes

Sept. 2018 - Present

Built a collection of typesetted notes of math and statistics courses I have taken at University of Toronto.

TECHNICAL SKILLS

Programming Languages

Python, C, R, Java, MatLab, Bash, Julia

Python Libraries

NumPy, PyTorch, Pandas, Autograd, Matplotlib, Scikit-learn, SciPy

Software & Tools

LaTeX, Git, HTML & CSS, Excel