

YUCHEN WANG

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<https://yuchenwyc.github.io/>

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: 92.34%

RESEARCH EXPERIENCE

Vector Institute

April 2020 - Present

Summer Research Student

Supervisor: Prof. Roger Grosse

University Health Network, University of Toronto

May 2019 - Dec. 2019

Summer Research Student

Supervisor: Prof. Bo Wang

GRADUATE-LEVEL COURSES TAKEN IN UNDERGRAD

- | | |
|-------------------------------------------------------------|--------------------------|
| • Computer Graphics (CSC418/2504) | Summer 2020, In Progress |
| • Statistical Methods for Machine Learning II (STA414/2104) | Winter 2020, 91/100 |
| • Neural Networks and Deep Learning (CSC413/2516) | Winter 2020, 95/100 |
| • Stochastic Processes (STA447/2006) | Winter 2020, 97/100 |
| • Methods of Data Analysis 1 (STA302/1001) | Summer 2019, 90/100 |

SCHOLARSHIP AND AWARDS

- | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| • University of Toronto Excellence Award (UTEA) \$6000
University of Toronto | May 2020 |
| • The Dorothy Walters Scholarship \$600
Woodsworth College, University of Toronto
This scholarship is awarded to 18 students with the most outstanding academic performance among more than 6300 undergraduates in Woodsworth College. | Dec. 2019 |
| • Dean's List Scholar
University of Toronto | Fall 2017 - Present |

RESEARCH PROJECTS

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

May 2019 - December 2019

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.

Supervised by Prof. Bo Wang and Dr. Mamatha Bhat

OTHER PROJECTS

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.

UofT Notes

Sept. 2019 - Present

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

Mars Game Platform

Jan. 2019 - March 2019

An open-source Game Platform that contains 3 games and a database in cloud that stores user accounts & scores.

Implemented games Sliding Tiles and Sudoku. Produced UI designs in Android. Created and documented some tests.

CIBC Machine Intelligence Hackathon

Oct. 2018

Finalist Group (Top 5)

Developed an Encoder-decoder Artificial Neural Networks model to detect fraud in medical insurance claims.

(Oral presentation)

OTHER EXPERIENCE

University of Toronto Machine Intelligence Student Team

Sept. 2018 - Dec. 2018

Public Relations Director

Organized an external group to reached out to student clubs for collaboration opportunities

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 Petroluem* using SQL queries and consulted with customers to report defects in the system.

TECHNICAL SKILLS

Programming Languages

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

Python Libraries

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

Software & Tools

HTML & CSS, LaTeX, Excel, Git