

# YUCHEN WANG

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

## EDUCATION

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### 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

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### 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

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- |   |                          |
|---|--------------------------|
| • 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

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|--|---------------------|
| • University of Toronto Excellence Award (UTEA) \$6000<br>University of Toronto  | May 2020            |
| • The Dorothy Walters Scholarship<br>Woodsworth College, University of Toronto<br>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<br>University of Toronto   | Fall 2017 - Present |

## RESEARCH PROJECTS

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### 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  $\sim 0.8$  auc, 2-year and 5-year outlook cause of death with  $\sim 0.7$  auc.

Supervised by Prof. Bo Wang and Dr. Mamatha Bhat

## OTHER PROJECTS

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### 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

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### 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 Petroluemusing* SQL queries and consulted with customers to report defects in the system.

## TECHNICAL SKILLS

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### 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