

Yuchen Wang

Passionate engineer in computer science striving to solve challenging real-world problems.

LINKS

WebSite: <https://yuchenwyc.com>
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Github:// [yuchenWYC](#)
LinkedIn:// [yuchenWYC](#)

AWARDS

(Jan 21) **Konrad Group Women in Technology Scholarship** \$2000
Awarded to a student who demonstrates innovation.
(Jan 21) **The Dorothy Walters Scholarship** \$2000
(May 20) **UofT Excellence Award** \$6,000
Awarded to about three students each year.
(Dec 19) **The Dorothy Walters Scholarship** \$600
(All years) **Dean's List Scholar**

COURSEWORK

Graduate

Computer Graphics (A+)
Computer Networks (A+)
Stochastic Processes (A+)
Methods of Data Analysis I (A+)
Probabilistic Learning and Reasoning (A+)
Neural Networks and Deep Learning (A+)

Undergraduate

Computer Organization (A+)
Data Structures and Analysis (A+)
Algorithm Design and Analysis (A+)
Operating Systems (A)
Real Analysis (A)
Vector Calculus (A+)
Linear Algebra II (A+)
Probability I (A)
Nonlinear Optimization (A+)
Introduction to Machine Learning (A+)

SKILLS

Specialized

Python • C • R • Bash • \LaTeX • Git

Familiar

Android • Java • C++ • HTML & CSS • Julia
MatLab • MySQL

Machine Learning Libraries

NumPy • PyTorch • Pandas • Autograd
Matplotlib • ggplot2 • SciPy • Scikit-learn
OpenCV2

EDUCATION

University of Toronto | SEP 2017 - APRIL 2021

Honours Bachelor of Science in Computer Science specialist,
Statistics major & Mathematics minor
cGPA: 3.98/4.00, Course Average: 92%

Stanford University | SEP 2021 (EXPECTED) - JUNE 2023

Master of Science in Computer Science

WORK EXPERIENCE

Ernst & Young | TECHNICAL CONSULTANT INTERN

June 2021 - August 2021 | Shanghai, China

Providing deep learning solutions based on customers' needs for optical character recognition. Developing the corresponding software pipeline, which takes real-time video stream as input and outputs formatted data.

Vector Institute | MACHINE LEARNING INTERN

April 2020 - Jan 2021 | Supervisor: Roger Grosse

Designed and implemented hypernetwork algorithms to auto-tune hyperparameters of Artificial Neural Networks during a single run. Wrote extensive unittests.

University Health Network | MACHINE LEARNING INTERN

May 2019 - Dec 2019 | Supervisor: Bo Wang

Designed a data processing pipeline for electronic health records time-series, and engineered modular code for sequential Artificial Neural Networks models that accurately predicts one-year and two-year outlook cause of death for post-organ-transplant patients.

DHC Software Co. Ltd | WEB DEVELOPMENT INTERN

May 2018 - July 2018 | Xi'an, Shaanxi, China

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

University of Toronto | TEACHING ASSISTANT

Jan 2021 - April 2021 | Supervisor: Karen Reid

Marked assignments, held office hours and led tutorials in the course *Software Tools and Systems Programming*.

PROJECTS

Project X Research Competition | Sep 2020 - Nov 2020

Led the UofT team to develop a new neural ordinary differential equation architecture that learns the dynamics of time series with multiple predictors (Winner, \$20,000 prize). [[ICML 2021 workshop page](#)]

ASA Datafest 2020 | June 2020

Led a student group to classify sentiment on Twitter using deep learning models, then explored how the U.S. general public responds to breaking news in the COVID-19 pandemic. (Honourable mentions)

Mars Game Platform | Jan 2019 - March 2019

An open-source game platform containing three well-designed games and user identities. Implemented games Sliding Tiles and Sudoku in Java. Designed the user interface and interaction. Created comprehensive unittests and detailed documentations.