

Yuchen Wang

Passionate software engineer and researcher, striving to solve challenging real-world problems.

LINKS

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Github:// [yuchenWYC](#)

LinkedIn:// [yuchenWYC](#)

EDUCATION

University of Toronto

SEP 2017 - APRIL 2021

Honours Bachelor of Science

Computer Science specialist, Statistics major
& Mathematics minor

cGPA: 3.98/4.00, Course Average: A+

Stanford University

SEP 2021 - JUNE 2023

Master of Science in Computer Science

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) UofToronto Excellence Award \$6,000

Awarded to about three students each year.

(Dec 19) The Dorothy Walters Scholarship \$600

(All years) Dean's List Scholar

TEACHING

Stanford | TEACHING ASSISTANT

Sep 2021 - Dec 2021

Supervisor: Percy Liang & Dorsa Sadigh

Course: *Artificial Intelligence*

UofToronto | TEACHING ASSISTANT

Jan 2021 - April 2021 | Supervisor: Karen Reid

Course: *Software Tools and Systems Programming*

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

WORK EXPERIENCE

Ernst & Young | TECHNICAL CONSULTANT INTERN

June 2021 - August 2021 | Shanghai, China

- Utilized AI technologies for optical character recognition to help an aviation authority automate extracting parameter values from graphic interfaces.
- Developed the corresponding software pipeline, which takes real-time video stream as input and outputs formatted data.
- Communicated with clients, wrote detailed documentations and proposal for the project workflow.
- Technologies: Python, OpenCV2, Pandas, Docker

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.
- Reading the literature and proving the related mathematical theories.
- Technologies: Python, NumPy, PyTorch, Autograd, Slurm

University Health Network | MACHINE LEARNING INTERN

May 2019 - Dec 2019 | Supervisor: Bo Wang

- Working with clinicians to design a data processing pipeline for electronic health records time-series.
- Engineered modular code for sequential artificial neural networks and tree-based machine learning models.
- The final models accurately predicts one-year and two-year outlook cause of death for post-organ-transplant patients.
- Technologies: R, Pandas, Python, NumPy, PyTorch, Scikit-learn

PROJECTS

Project X Research Competition | Sep 2020 - Nov 2020

- Led the UofT team to develop a new neural ordinary differential equation architecture, which learns the dynamics of time series with multiple predictors and beats the baseline models in performance.
- Applied the model on semi-synthetic plant disease datasets and achieved remarkable results in both extrapolation and interpolation.
- Awarded a \$20,000 prize as a winner for the competition.
[[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.