Yuchen Wang

Passionate engineer and researcher in computer science striving to solve challenging real-world problems. Researched at Vector Institute on machine learning algorithms.

LINKS

WebSite: **https://yuchenwyc.com**
Email: **raina.wang@mail.utoronto.ca**
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
Awarded to top 18 students in Woodsworth College.
(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+)
Effective Writing

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

EDUCATION

University of Toronto | Sep 2017 - April 2021 (Expected)

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

WORK EXPERIENCE

University of Toronto | Teaching Assistant

Jan 2021 - April 2021 (Expected)
Marking assignments, holding office hours and leading tutorials in the course *Software Tools and Systems Programming*.

Vector Institute | Machine Learning Researcher

April 2020 - Jan 2021 | Supervisor: Roger Grosse
Designed and implemented hypernetwork algorithms to auto-tune hyperparameters of Artificial Neural Networks during a single run.

University Health Network | Machine Learning Researcher

May 2019 - Dec 2019 | Supervisor: Bo Wang
Designed a data processing pipeline for electronic health records time-series, and engineered a sequential Artificial Neural Networks model 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, Shannxi, China
Engineered the Oracle database for *Office Automation system for Shannxi Yanchang Petroleum* using SQL queries, and consulted with customers to report defects in the system.

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). [ArXiv preprint]

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 that contains three well-designed games using Firebase Realtime Database that stores user credentials & scores. Implemented games Sliding Tiles and Sudoku in Java. Designed the user interface and interaction. Created comprehensive unittests and detailed documentations.