Huanzhang Xia hxia0016@gmail.com

Address

27 King's College Cir Toronto, ON M5S 1A1 Canada

Curriculum Vitae

Education

Sep. 2019-Present, University of Toronto, Canada

A&S Bachelor's Degree Program in Computer Science Specialist, Artificial Intelligence Focus and Mathematics Minor

- Dean's List Scholar (2020-2021)
- Cumulative GPA 3.89/4.00

Sep. 2018-Apr. 2019, University of Ottawa, Canada

Honours Bachelor of Science in Computer Science

- Merit Scholarship (international student) \$1000
- Dean's Honour List (2019)
- Cumulative GPA 9.4/10

Experience

May. 2021-Present, IAI Lab at University of Toronto, Canada

Research Assistant

- Advised by Prof. Joseph Jay Williams.
- Involved in TenQ data analysis project and Metaskills emails project.

Skills

Machine learning

- Familiar with libraries and frame works including NumPy, PyTorch and matplotlib.
- Familiar with most of the state-of-the-art deep learning models.

Artificial Intelligence

• Fundamental knowledge uniform search, heuristic search, game tree search (minimax, alpha-beta pruning and Monte Carlo Tree Search)

Probability and statistics

• Familiar with statistical inequalities and able to use confidence intervals and statistical tests to analyse data.

Mathematics and Optimization

- Fundamental data management, linear algebra, calculus, ordinary differential equation and discrete math for computing.
- Nonlinear convex optimization including finite dimensional optimization, gradient descent-based solution search and calculus of variations.

Programming Skills

Programming Languages

• Familiar with Python, C, Java, JavaScript and R

Web Programming

- Designed and implemented a handcraft sharing platform Share My Craft with Express backend and Mongodb data base.
- Designed and programmed a javascript library which helps deploy the user interface of web applications.