

Junjiang Li

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EDUCATION

MSc in Applied Computing

September 2021 – December 2022 (Expected)

University of Toronto, Department of Computer Science

Registered Courses

- CSC2206 System Modelling and Analysis
- CSC2221 Theory of Distributed Computing
- CSC2233 Topics in Storage Systems
- CSC2532 Statistical Learning Theory
- CSC2541 Topics in Machine Learning

Bachelor of Science and BSc in Engineering

August 2017 – May 2021

Miami University, Oxford, OH 45056, United States

GPA: 3.98

Majors: *Computer Science, Mathematics, and Physics*

EXPERIENCES

Machine Learning Research Lab, Department of Computer Science, Miami University

May 2020 – May 2021

Student Researcher

- Constructed a simulation orchestration software using Python to run large-scale epidemiological simulations on multiple servers in parallel.
- Implemented vaccination logic to open-source agent-based COVID-19 models.
- Analyzed and visualized large amounts of simulation data using custom written scripts.
- Directed a team of 5 to predict disease progression based on image features extracted from HIV simulations.

Bose-Einstein Condensates (BEC) Research Lab, Dept. of Physics, Miami University

October 2017 – May 2019

Student Researcher

- Built numerical simulations of the fast adiabatic transport of BECs.
- Built numerical simulations to help determine configurations of critical apparatus configurations (including transfer coil positions and current profile) using C++.

ADDITIONAL COURSES

Machine Learning Techniques

September 2021 – Present

Hsuan-Tien Lin (National Taiwan University), Coursera

Select Topics: SVM, Bagging and Boosting, Decision Trees, Neural Networks, k -Means, Matrix Factorization

Machine Learning Foundations (Parts 1 and 2)

August 2021 – September 2021

Hsuan-Tien Lin (National Taiwan University), Coursera

Final Grade: 95%

Select Topics: PLA, Linear and Logistic Regression, VC Theory, Feature Transform, Regularization, Validation

PUBLICATIONS

- Li J. and Giabbanelli P.J., “Returning to a Normal Life via COVID-19 Vaccines in the United States: A Large-scale Agent-Based Simulation Study”, *JMIR Med Inform*, 2021, doi: 10.2196/27419
- Li J. and Giabbanelli P.J., “Identifying Synergistic Interventions to Address COVID-19 Using a Large Scale Agent-Based Model”, *ICCS 2021*, 2021, pp. 655-662, doi: 10.1007/978-3-030-77967-2_54.

AWARDS AND GRANTS

- Outstanding Poster Award at the OSAPS physics conference
 - Pi Mu Epsilon Prize for placing 1st in a school-wide mathematics contest
 - Microsoft AI for Health Grant for the COVID-19 projects
 - Mary and Clifford Harvey Scholarship
 - R. L. Edwards Scholarship
- Fall 2019
Dept. of Mathematics, Spring 2019
Fall 2020
Dept. of Mathematics, Fall 2020
Dept. of Physics, Fall 2020

- Osmond Barton Prize
- George and Carolyn Arfken Scholarship
- Outstanding Undergraduate Researcher Award
- William Shoupp Memorial Scholarship

Dept. of Mathematics, Spring 2019
 Dept. of Physics, Spring 2019
 Dept. of Physics, Spring 2019
 Dept. of Physics, Spring 2018

WORK EXPERIENCES

Department of Computer Science, Miami University

Summer 2020

Teaching Assistant

- Set office hours to answer student questions in Data Structures and Mobile Application Programming
- Wrote scripts to automatically upload grade reports generated by existing autograders

Rinella Learning Center, Miami University

September 2018 – September 2019

Supplemental Instructor and Tutor

- Held review sessions in Calculus for more than 15 students.
- Encouraged group discussions and collaborations.
- Considered the needs of students at different levels and designed practice problems beneficial to all students.