

## Junjiang Li

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## EDUCATION

<b>University of Toronto</b> , Toronto ON, Canada <i>Master of Science in Applied Computing</i>	Fall 2021 – Present
<b>Miami University</b> , Oxford OH, United States <i>Bachelor of Science in Computer Science</i> <i>Bachelor of Science in Mathematics</i> <i>Bachelor of Science in Physics</i>	Fall 2017 – Spring 2021 GPA: 3.98

## RESEARCH EXPERIENCES

<b>Machine Learning Research Lab</b> Department of Computer Science, Miami University	Summer 2020 – Summer 2021
<ul style="list-style-type: none"><li>• Constructed a simulation orchestration software using Python to run large-scale simulations on multiple Linux servers in parallel.</li><li>• Implemented additional features to existing open-source COVID-19 Python simulations.</li><li>• Built scripts to analyze and visualize large amounts of simulation data.</li><li>• Results published at ICCS 2021 (doi: 10.1007/978-3-030-77967-2_54) and JMIR Medical Informatics (doi: 10.2196/27419).</li></ul>	
<b>Quantum Information Research Lab</b> Department of Physics, Miami University	Fall 2019 – Spring 2020
<ul style="list-style-type: none"><li>• Studied common models and formalisms in Quantum Optics.</li><li>• Gained further experiences in understanding mathematics-heavy research articles.</li></ul>	
<b>Bose-Einstein Condensation (BEC) Research Lab</b> Department of Physics, Miami University	Fall 2017 – Spring 2019
<ul style="list-style-type: none"><li>• Built numerical simulations of the fast adiabatic transport of BECs using Mathematica.</li><li>• Built numerical simulations to determine configurations of experimental apparatus (e.g. placement of transfer coils and current profiles) using Python and C++.</li><li>• Presented poster titled “Numerical Simulations of the Fast-Adiabatic Transport of Bose Einstein Condensates” at regional (OSAPS) and national (APS DAMOP) conferences, which won the “outstanding poster award”.</li></ul>	

## HONORS, AWARDS & GRANTS

• Microsoft AI for Health Grant for the COVID-19 projects	Fall 2020
• Mary and Clifford Harvey Scholarship	Dept. of Mathematics, Fall 2020
• R. L. Edwards Scholarship	Dept. of Physics, Fall 2020
• Undergraduate Summer Scholar (USS) Research Grant <i>*cancelled due to COVID-19</i>	Dept. of Physics, Summer 2020
• Pi Mu Epsilon Prize	Dept. of Mathematics, Spring 2019
• Osmond Barton Prize	Dept. of Mathematics, Spring 2019
• George and Carolyn Arfken Scholarship	Dept. of Physics, Spring 2019
• Outstanding Undergraduate Researcher Award	Dept. of Physics, Spring 2019

- Undergraduate Research Award Miami University, Spring 2019
- Top 10 Award College of Engineering and Computing, Spring 2019
- William Shoupp Memorial Scholarship Dept. of Physics, Spring 2018
- Miami University President's List 7 Times
- Miami University Dean's List 1 Time

## WORK EXPERIENCES

### Teaching Assistant Summer 2020

Department of Computer Science, Miami University

- Set office hours to answer student questions.
- Created and applied automated tools to help grade assignments.

### Supplemental Instructor and Tutor Fall 2018 – Fall 2019

Rinella Learning Center, Miami University

- Helped students deepen their understanding of basic subjects such as Calculus, College Physics, Basic Economics, etc.
- Further improved my communication skills, especially at encouraging group discussions and collaborations.
- Considered the needs of students at different levels, and designed practice problems beneficial to all students.