

Niki Hasrati

Email: nikhasrati@gmail.com

Website: <https://nikhasrati.github.io>

EDUCATION

Carnegie Mellon University

Ph.D. in Machine Learning, School of Computer Science

Pittsburgh, Pennsylvania

Aug 2023 - Present

University of Waterloo

Master of Mathematics in Computer Science

Waterloo, Ontario

Apr 2023

Advisor: [Prof. Shai Ben-David](#)

Thesis: *On Computable Online Learning*

University of Waterloo

Bachelor of Computer Science

Waterloo, Ontario

Apr 2020

Graduated with Distinction

PUBLICATIONS

Niki Hasrati and Shai Ben-David. *On Computable Online Learning*. In *Proceedings of the 34th International Conference on Algorithmic Learning Theory (ALT)*, 2023. **ALT 2023 Best Paper Award**.

AWARDS

- University of Waterloo Provost Doctoral Entrance Award for Women (*Declined*) *2023*
- University of Waterloo Graduate Scholarship (*Declined*) *2023*
- ALT 2023 Best Paper Award *2023*
- University of Waterloo Barbara Hayes-Roth Award for Women in Math and Computer Science *2021-2022*

INVITED TALKS

On Computable Online Learning

- Paper presented at the 34th International Conference on Algorithmic Learning Theory (ALT)

Singapore

Feb 2023

TEACHING

CS 365 - Models of Computation

Head Teaching Assistant - Instructor: [Prof. Shai Ben-David](#)

University of Waterloo

Winter 2022

- Sole teaching assistant for an enriched theory of computing course
- Wrote solutions, created grading rubrics, carried out marking, and held office hours for all assignments

CS 485 - Statistical and Computational Foundations of Machine Learning

Teaching Assistant - Instructor: [Prof. Shai Ben-David](#)

University of Waterloo

Fall 2021

- Held weekly office hours and, for all exams and assignments, contributed to writing solutions and grading

CS 486 - Introduction to Artificial Intelligence

Teaching Assistant - Instructor: [Prof. Alice Gao](#)

University of Waterloo

Spring 2021

- Lead teaching assistant for a reinforcement learning assignment
- Wrote Python code to automatically test submissions, responded to Piazza questions, and held office hours

EMPLOYMENT

University of Waterloo

Undergraduate Research Assistant - Advisor: [Prof. Craig S. Kaplan](#)

Waterloo, Ontario

Sep 2019 - Dec 2019

- Used mathematical tiling theory to implement interactive visualizations for [Isohedral](#), a JS-based web app

Square

Software Engineering Intern - Cash App

Kitchener, Ontario

May 2019 - Aug 2019

- Added new features to Cash App's fee-calculation logic, affecting millions of monthly users
- Architected an event-driven microservice for speeding up reports that were causing significant financial damage

Square

San Francisco, California

*Software Engineering Intern - Compliance Engineering**Jan 2018 - Apr 2018*

- Helped implement real-time detection of unusual and illegal activity on Square's payment processing platform
- Designed and launched development of a new application focused on helping Square's quality assurance agents

DAC Group

Toronto, Ontario

*Application Developer Intern**Jan 2017 - Apr 2017*

- Helped develop a website for business owners to monitor and respond to their social media reviews

416 Automation

Mississauga, Ontario

*Software Developer Intern**May 2016 - Aug 2016*

- Improved the company's data retrieval system by developing a website to analyse and display client information