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### Education

**University of Wisconsin - Madison** 

Madison, WI

Aug. 2020 - present

Ph.D. IN COMPUTER SCIENCES (exp. May 2025) Advisors: Aws Albarghouthi and Loris D'Antoni

**Carleton College** Northfield, MN

B.A. IN MATHEMATICS Sept. 2014 - June 2018

Magna cum laude

# Research Experience \_\_\_\_\_

**Graduate Research Assistant** 

Madison, WI

UNIVERSITY OF WISCONSIN - MADISON

Jan. 2021 - present

- Ongoing work: Develop techniques to analyze the robustness of various machine learning algorithms to different types of data poisoning.
- Completed project: Abstractly verify robustness properties of decision-tree learning algorithms learning algorithms in the presence of data poisoning.
- Supervisors: Professors Aws Albarghouthi and Loris D'Antoni

**Research Assistant** Northfield, MN

CARLETON COLLEGE

March 2017 - Aug. 2017

- · Developed software (primarily in Java) to count the number of tilings of a geometric region for any provided set of tiles under the guidance of Professor Jed Yang.
- · Optimized my team's data structures and algorithms, resulting in efficiency gains of several orders of magnitude.

### **Publications**

NeurIPS 2021

#### **Certifying Robustness to Programmable Data Bias in Decision Trees**

Anna P. Meyer, Aws Albarghouthi, Loris D'Antoni

# **Industry Experience**

**Software Developer** Madison, WI

**EPIC SYSTEMS** 

Aug. 2018 - Aug. 2020

- Designed, implemented, and supported projects to facilitate data interoperability between MyChart and other platforms, such as allowing patients to pull in other data from external health organizations so that they can see all their data in a single login.
- Coordinated with leadership, testers, and other developers to ensure a timely delivery of a high-quality final product.
- · Researched accessible development best practices for the form validation framework and other bug fixes.

# Other Projects

#### The Mathematics of Gerrymandering

Northfield, MN

SENIOR COMPREHENSIVE EXERCISE, CARLETON COLLEGE

Sept. 2017 - March 2018

- Explored current research on how mathematics can be used to measure and combat political gerrymandering.
- Constructed a public on-campus exhibit to share our findings with the community; additionally, gave a public talk to interested community members.

#### **University of Minnesota GroupLens Externship**

Minneapolis, MN

WINTER BREAK EXTERN

Dec. 2017

· Researched user behavior on Yelp with three other Carleton students at the GroupLens Human-Computer Interaction lab during winter break and reported our findings in a blog post [link].

## **Teaching Experience**

#### Teaching Assistant for CS/MATH 240: Discrete Math

Madison, WI

University of Wisconsin - Madison

Aug. 2020 - Dec. 2020

- · Promoted student understanding of course content through problem-solving-based weekly discussion sections and office hours.
- Coordinated with other TAs and the instructor on course content and grading procedures and expectations.

#### **Tutor, Grader, and Teaching Assistant**

Madison, WI

CARLETON COLLEGE

Jan. 2016 - June 2018

- Tutored students at the drop-in Math Skills Center in Calculus I, II, & III, Linear Algebra, and a proof writing course.
- Graded weekly homework assignments for calculus, real analysis, and algorithms.
- · Helped students to master course concepts through answering questions at biweekly TA sessions for real analysis and algorithms courses.

## Activites and Service

### TAA (Teaching Assistant's Association)

Madison, WI

MEMBER AND CS DEPARTMENT STEWARD

Sept. 2020 - PRESENT

Sept 2015 - June 2017

- · Serve as a steward for the CS department and volunteer with various union committees and campaigns.
- Coordinate outreach between the TAA and Computer Science department leadership (both department chair and graduate student association leaders), resulting in an ongoing meeting series to share concerns and ideas.

Carleton Nordic Ski Club

Northfield, MN

CAPTAIN

- Led practice and taught new skiers 4-5 times a week in the winter.
- · Coordinated with the administration and other captains to manage team finances, training, and racing.

## **Honors & Awards**

2018Phi Beta KappaCarleton College2015Dean's ListCarleton College

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