

Yuan (Charles) Cui

CONTACT INFORMATION

Email: charlescui@u.northwestern.edu

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

EDUCATION

Ph.D. in Computer Science, Northwestern University

Expected Graduation: June 2025

Concentration: Theoretical Computer Science

Advisor: Jason Hartline

Bachelor of Arts, Oberlin College

May 2020

Majors: Mathematics and Computer Science

Mentors: Jack Calcut, Benjamin Linowitz, Samuel Taggart

Budapest Semesters in Mathematics

Spring 2019

RESEARCH INTERESTS

Algorithmic Game Theory, Algorithms

WORKING PAPERS

- **Y. Cui**, R. Cummings, E. Goss, S. Taggart, Returns on Privacy: Phase Transitions in Repeated Sales

PUBLICATIONS

- McElfresh, DC, S Dooley, **Y Cui**, K Griesman, W Wang, T Will, N Sehgal, and JP Dickerson (2020). Can an Algorithm be My Healthcare Proxy? In: Workshop on Health Intelligence at AAAI-20 & Explainable AI in Healthcare and Medicine. Ed. by A Shaban-Nejad, M Michalowski, and DL Buckeridge. Springer 2020.

TEACHING

Oberlin College

Spring 2017 - May 2020

Teaching Assistantships

Oberlin, OH

- MATH 132 Calculus Ib: Integration and Applications (Spring 2017, Spring 2018)
- MATH 134: Calculus II (Fall 2019)
- MATH 220: Discrete Mathematics (Spring 2018, Fall 2019, Spring 2020)
- MATH 232: Linear Algebra (Spring 2017, Fall 2017)
- CSCI 150: Introduction to Computer Science (Spring 2017, Fall 2017, Fall 2018)
- ECON 206: Principles of Finance (Fall 2019)

AWARDS AND GRANTS

Elbridge P. Vance Scholar of Mathematics

July 2016 - May 2020

Oberlin College

- Awarded a total of \$29,879 in my four years at Oberlin College.

INVITED TALKS, WORKSHOPS, AND TUTORIALS

Data Externalities

March 2021

ACM FAccT 2021

- Joint with Rediet Abebe, Mihaela Curmei, Andreas Haupt, and Yixin Wang

SERVICE

Membership Manager

Jan 2021 - Present

- Mechanism Design for Social Good

Moderator

Nov 2020

- Splash at Northwestern

Volunteer

July 2020

- The Twenty-First ACM Conference on Economics and Computation (EC'20)