Yuan (Charles) Cui

CONTACT INFORMATION

Email: charlescui@u.northwestern.edu
Webiste: 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

Volunteer June 2021

· The 53rd Annual ACM Symposium on Theory of Computing (STOC 2021)

Moderator Nov 2020

· Splash at Northwestern

Volunteer July 2020

· The Twenty-First ACM Conference on Economics and Computation (EC 2020)