Yuan (Charles) Cui

CONTACT INFORMATION

Email: charlescui@u.northwestern.edu Webiste: https://yccui.github.io/

EDUCATION

Ph.D. in Computer Science, Northwestern University

Concentration: Theoretical Computer Science

Advisor: Jason Hartline

Bachelor of Arts, Oberlin College

Majors: Mathematics and Computer Science

Mentors: Jack Calcut, Benjamin Linowitz, Samuel Taggart

Budapest Semesters in Mathematics

Spring 2019

May 2020

Expected Graduation: June 2025

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

Northwestern University Teaching Assistantships

Fall 2021 - Present

Evanston, IL

· COMP_SCI 336: Design & Analysis of Algorithms (Fall 2021)

Oberlin College

Spring 2017 - May 2020

Oberlin, OH

Teaching Assistantships

· 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

Working Group Organizer Sept 2021 - Present

· Data Economies Working group at MD4SG

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)