

## Samuel Taggart (he/him/his)

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CONTACT INFORMATION Department of Computer Science  
Oberlin College  
King 223B *Email:* [staggart@oberlin.edu](mailto:staggart@oberlin.edu)  
10 N Professor St, Oberlin OH 44074 <http://www.samueltaggart.com>

APPOINTMENTS Assistant Professor, Oberlin College, August 2017 - present  
Courses:  
Introduction to Computer Science (CSCI 150): Fall 2021  
Introduction to Computer Science Lab Instructor (CSCI 150): Fall 2017, Spring 2018, Fall 2018, Spring 2019, Fall 2021 Spring 2022  
Algorithms (CSCI 280): Fall 2017, Fall 2018, Fall 2019, Spring 2020  
Advanced Algorithms (CSCI 365): Spring 2018, Fall 2019, Spring 2022  
Theory of Computation (CSCI 383): Spring 2019, Spring 2020  
Economics and Computation (CSCI 385): Fall 2018  
  
Visiting Instructor, Northeastern University, Fall 2014  
Courses: Algorithms (EECS 5800)

EDUCATION **Northwestern University**, Evanston, Illinois  
  
Ph.D., Electrical Engineering and Computer Science, August 2017  

- Advisor: Jason Hartline
- Area of Study: Theory of Computer Science

  
**Oberlin College and Conservatory**, Oberlin, Ohio  
  
B.A., Mathematics, May 2012  
  
B.M., Violin Performance, May 2012

WORKING PAPERS A. Khodabakhsh, M. Pountourakis, S. Taggart, Simple Delegated Choice

PUBLICATIONS **All author orders are alphabetical.**  
  
R. Abebe, A. Eck, C. Ikeokwu<sup>1</sup>, and S. Taggart, An Algorithmic Introduction to Savings Circles, *36th Annual AAAI Conference on Artificial Intelligence*, Virtual, February 2022  
  
J. Abernethy, R. Cummings, B. Kumar, J. Morgenstern, and S. Taggart, Learning Auctions with Robust Incentive Guarantees, *32nd International Conference on Neural Information Processing Systems (NeurIPS)*, Vancouver, Canada, December 2019  
  
J. Hartline, S. Taggart, Sample Complexity for Non-Truthful Mechanisms, *20th Annual ACM Conference on Economics and Computation (EC)*, Phoenix, AZ, July 2019  
  
D. Hoy, S. Taggart, Z. Wang, A Tighter Welfare Guarantee for First-Price Auctions, *50th Annual ACM SIGACT Symposium on Theory of Computing (STOC)*, Los Angeles, CA, July 2018

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<sup>1</sup>Undergraduate coauthor.

- N. Immorlica, B. Lucier, E. Pountourakis, S. Taggart, Repeated Sales with Multiple Strategic Buyers, *18 Annual ACM Conference on Economics and Computation (EC)*, Cambridge, MA, July 2017
- J. Hartline, D. Hoy, S. Taggart, Price of Anarchy for Auction Revenue, *15th Annual ACM Conference on Economics and Computation (EC)*, Palo Alto, CA, July 2014
- C. Cusack, T. Lewis, D. Simpson, S. Taggart, The Complexity of Pebbling in Diameter Two Graphs, *SIAM Journal of Discrete Mathematics*, Volume 26, Issue 3, 2012
- R. Buehler, Z. Goldman, D. Liben-Nowell, Y. Pei, J. Quadri, A. Sharp, S. Taggart, T. Wexler, K. Woods, The Price of Civil Society, *Workshop on Internet and Network Economics (WINE)*, Singapore, December 2011

#### FUNDING

- NSF Award 2218814  
 Title: Collaborative Research: AF: Small: RUI: Data Science from Economic Foundations  
 Duration: 10/1/2022 - 9/30/2025  
 Award Amount: \$239,830

#### AWARDS

- W.M. Keck Family Foundation Faculty Fellowship in Natural Sciences and Mathematics
- Oberlin College, 2020-2021
- Department of Electrical Engineering and Computer Science Best TA Award
- Recognized for work on EECS 336: Design and Analysis of Algorithms, 2016
- Honorable Mention, NSF Graduate Research Fellowship
- Project Title: “Algorithmic Pricing of Combinatorial Commons” 2012
- Cabell Graduate Fellowship
- Northwestern University, 2012

#### INVITED TALKS, WORKSHOPS, AND TUTORIALS

- Simple Delegated Choice  
 Refereed Lightning Talk, EC 2022 Workshop on Algorithmic Contract Theory, Boulder, Colorado, July 2022
- Simple Delegated Choice  
 Invited Talk, STOC 2022 Workshop on Algorithmic Contract Theory, Rome, Italy, June 2022
- Responsible Algorithms for Real People  
 Invited Lightning Talk, Workshop on Algorithmic Learning and Economics 2022  
 Workshop on Algorithmic Contract Theory, Naxos, Greece, June 2022
- Robust Analysis of Auction Equilibria  
 Refereed Talk, Games2020 - 6th World Congress of the Game Theory Society, July 2021
- Mechanism Design for Social Good: Inequality  
 Invited Lightning Talk, Part of tutorial at Data Science Africa, Kampala, Uganda, July 2020
- Mechanism Design for Social Good: Targeting and Provision for Vulnerable Populations

With Sera Linardi. Tutorial at EC 2020, Remote, July 2020

Optimal Algorithms for Strategic Inputs

Invited Talk, Drexel University, Philadelphia, PA, January 2020

Sample Complexity for Non-Truthful Mechanisms

Invited Talk, INFORMS 2019, Seattle, WA, October 2019

Near-Optimal Non-Revelation Mechanisms

Invited Talk, University of Pennsylvania, Philadelphia, PA, July 2016

Non-Revelation Mechanism Design

Refereed Talk, 2nd Workshop on Algorithmic Game Theory and Data Science, Maastricht, Netherlands, June 2016

The Universality of IID Position Auctions

Invited Talk, 22nd International Symposium on Mathematical Programming, Pittsburgh, PA, July 2015

Mechanism Design for Program Committees

Invited Talk, Harvard University, May 2015

The Approximate Optimality of Simple Auctions

Invited Talk, Midwest Theory Day, Purdue University, May 2014

First-Price Auctions: An Archetype for Analysis

Invited Talk, Bellairs Workshop on Algorithmic Game Theory, Bellairs, Barbados, April 2014

## SERVICE

Track Chair

- Equity and Access in Algorithms, Mechanisms, and Optimization (EAAMO) (2021,2022)
- Workshop on Mechanism Design for Social Good (MD4SG) (2020)

Program Committees

- AAAI Conference on Artificial Intelligence (AAAI) (2020, 2021, 2022)
- Conference on Web and Internet Economics (WINE) (2019, 2020)
- ACM Conference on Economics and Computation (EC) (2018 - 2022)
- Workshop on Mechanism Design for Social Good (2017 - 2019)
- ACM Conference on Fairness, Accountability, and Transparency (2022)

Reviewing

- IEEE Symposium on Foundations of Computer Science (FOCS) (2020)
- International Symposium on Algorithmic Game Theory (SAGT) (2019)
- ACM SIGACT Symposium on Theory of Computing (STOC) (2019, 2020)
- ACM-SIAM Symposium on Discrete Algorithms (SODA) (2017, 2018, 2020, 2023)
- European Symposium on Algorithms (ESA) (2017)
- ACM Conference on Economics and Computation (EC) (2017)
- International World Wide Web Conference (WWW) (2017)
- Conference on Web and Internet Economics (WINE) (2021)
- Optimization Letters
- Games and Economic Behavior
- ACM Transactions on Economics and Computation

- Management Science
- Operations Research
- SIAM Journal on Computing
- Operations Research Letters
- Journal of the ACM

Other

- Organizer, Inequality Working Group, Mechanism Design for Social Good Research Group (2019-2022)
- Member-at-large, American Association of University Professors, Oberlin Chapter (2019-2020)
- Organizer, Unit on Civic Participation, Reading Group on Mechanism Design for Social Good (2017, 2018)