

Xizhi Tan

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Research Interests

Mechanism Design with Predictions, Algorithmic Game Theory, and Multi-agent Resource Allocation

Employment History

Jun 2023- **Google** – Mountain View, CA
Research Intern

Education

Jan 2020- **Drexel University** – Philadelphia, PA
Ph.D. in Computer Science
Advisor: Vasilis Gkatzelis; Expected Graduation: Nov 2024

Sept 15- Dec 19 **Drexel University** – Philadelphia, PA
BSc in Mathematics

Conference Publications

- 2023 **EFx Budget-Feasible Allocations with High Nash Welfare**
Marius Garbea, Vasilis Gkatzelis, Xizhi Tan
26th European Conference on Artificial Intelligence (ECAI 2023)
- 2023 **Strategyproof Scheduling with Predictions**
Eric Balkanski, Vasilis Gkatzelis, Xizhi Tan
14th Innovations in Theoretical Computer Science (ITCS 2023)
- 2022 **Learning-Augmented Mechanism Design: Leveraging Predictions for Facility Location**
Priyank Agrawal, Eric Balkanski, Vasilis Gkatzelis, Tingting Ou, Xizhi Tan
23rd ACM Conference on Economics and Computation (EC 2022)
- 2022 **Improved Price of Anarchy via Predictions**
Vasilis Gkatzelis, Kostas Kollias, Alkmini Sgouritsa, Xizhi Tan
23rd ACM Conference on Economics and Computation (EC 2022)
- 2022 **Deterministic Budget Feasible Clock Auctions**
Eric Balkanski, Pranav Garimidi, Vasilis Gkatzelis, Daniel Schoepflin, Xizhi Tan
33rd ACM-SIAM Symposium on Discrete Algorithms (SODA 2022)
- 2021 **Fair and Efficient Online Allocations with Normalized Valuations**
Vasilis Gkatzelis, Alexandros Psomas, Xizhi Tan
35th AAAI Conference on Artificial Intelligence. (AAAI 2021)

Teaching Experience

Fall 2022 **Teaching assistant, CS 521: Data Structures and Algorithms I (Graduate)**
Fall 2020, 2021 **Teaching assistant, CS 457: Data Structures and Algorithms I**
Spring 2020 **Teaching assistant, CS 380: Artificial Intelligence**

Talks

Strategyproof Scheduling with Predictions

May 2023 Rutgers/DIMACS theory seminar
Jan 2023 14th Innovations in Theoretical Computer Science

Learning-Augmented Mechanism Design

Aug 2022 Purdue University
July 2022 23rd ACM Conference on Economics and Computation
Apr 2022 Drexel Theory Reading Group

Improved Price of Anarchy via Predictions

July 2022 23rd ACM Conference on Economics and Computation
May 2022 Drexel Theory Reading Group

Fair and Efficient Online Allocations with Normalized Valuations

Feb 2021 35th AAAI Conference on Artificial Intelligence

Honors and Scholarships

2023 **Finalist for 2023 Meta Research PhD Fellowship**
2022 **Teaching Excellence Award (Graduate)** *for excellence in academics teaching*
by College of Computing & Informatics, Drexel University
2019 **Robert J. Bickel Scholarship** *for outstanding academic achievements*
by College of Arts & Science, Drexel University
2017 **Philadelphia City Council Citation** *for contributions to the AAPI community*
by City of Philadelphia
2016 **William Avery Scholarship** *for excellent performance in freshmen year*
by LeBow College of Business, Drexel University
2015 - 2019 **A.J. Drexel Scholarship** *supplemental financial support*
by Drexel University
2015 - 2019 **Drexel Grant** *supplemental financial support*
by Drexel University

Research Visits

Aug 22 - Sept 22 **Purdue University** – West Lafayette, IN
Host: Alex Psomas
July 22 - Aug 22 **Columbia University** – New York, NY
Host: Eric Balkaniski

Industrial Work Experience

Apr 19 - Sep 19 **JPMorgan Chase & Co.** – Wilmington, DE
Digital Quality Operations Analyst
Sept 17 - Mar 18 **Comcast Corporation** – Philadelphia, PA
Assistant Product Manager
May 17 - Aug 17 **City Council of Philadelphia** – Philadelphia, PA
Asian Outreach Intern
Step 16 - Mar 17 **Your Part-time Controller LLC** – Philadelphia, PA
Data Visualization Analyst