Xizhi Tan

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Research Interests

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

Employment History

Jun- Sept 2023 Google - Mountain View, CA

Research Intern

Education

Jan 2020- Drexel Universty – Philadelphia, PA

Ph.D. in Computer Science Advisor: Vasilis Gkatzelis

BSc in Mathematics

Conference Publications

2023 Online Mechanism Design with Predictions

Eric Balkanski, Vasilis Gkatzelis, Xizhi Tan, Cherlin Zhu under submission

2023 Optimal Metric Distortion with Predictions

Ben Berger, Michal Feldman, Vasilis Gkatzelis, Xizhi Tan under submission

2023 Getting More by Knowing Less: Bayesian Incentive Compatible Mechanisms for Fair Division

Vasilis Gkatzelis, Alexandros Psomas, Xizhi Tan, Paritosh Verma under submission

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					
July 2022	Strategyproof Scheduling with Predictions MTV Algorithms Booding Crown Coogle					
July 2023	MTV Algorithms Reading Group, Google Rutgers/DIMACS Theory Seminar					
May 2023 Jan 2023	14th Innovations in Theoretical Computer Science					
Jan 2023	14th filliovations 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					
E 1 0001	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					
2023	Jay Modi Memorial Award					
	by Department of Computer Science, Drexel University					
2023	PhD Research Excellence for excellence in research					
	by College of Computing & Informatics, Drexel University					
2022	Teaching Excellence Award (Graduate) <i>for excellence in academics teaching</i> by College of Computing & Informatics, Drexel University					
2019	Robert J. Bickel Scholarship for outstanding academic achievements					
2017	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

Academic Service

Journal Reviewer: Transactions on Economics and Computation (TEAC)

Conference Reviewer/Subreviewer: Symposium on Discrete Algorithms (SODA), Conference on Economics and Computation (EC), Neural Information Processing Systems (NeurIPS), International Symposium on Algorithmic Game Theory (SAGT), Symposium on Mathematical Foundations of Computer Science (MFCS), International Conference on Machine Learning (ICML)

Industrial Work Experience

Apr 19 - Step 19	IPMorgan	Chase &	Co -	Wilmington,	DF.
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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