Xiaosheng Mu

December 2024
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Academic Appointments:

Princeton University, Department of Economics
Associate Professor of Economics, July 2024 to Present
Assistant Professor of Economics, July 2020 to June 2024

Columbia University, Department of Economics
Assistant Professor of Economics, July 2019 - June 2020

Yale University, Cowles Foundation for Research in Economics
Postdoctoral Research Associate July 2018 - June 2019

Education:

Harvard University
Ph.D. in Economics, 2013-2018
Dissertation: *Essays on the Economics of Information*
Committee: Drew Fudenberg, Eric Maskin, Tomasz Strzalecki

Yale University
B.A. in Mathematics and in Economics, 2009-2013

Research and Teaching Fields:

Game Theory, Mechanism Design, Decision Theory, Behavioral Economics

Publications:

"Algorithmic Design: A Fairness-Accuracy Frontier" (with Annie Liang, Jay Lu and Kyohei Okumura)
Accepted at *Journal of Political Economy*, Extended Abstract in EC '22.

"Monotone Additive Statistics" (with Luciano Pomatto, Philipp Strack and Omer Tamuz)
Econometrica, Vol. 92 (4): 995-1031, 2024. Extended Abstract in EC '22.

"Background Risk and Small-Stakes Risk Aversion" (with Luciano Pomatto, Philipp Strack and Omer Tamuz)
American Economic Review: Insights, Vol. 6 (2): 262-276, 2024.

"Dynamically Aggregating Diverse Information" (with Annie Liang and Vasilis Syrgkanis)
Econometrica, Vol. 90 (1): 47-90, 2022. Extended Abstract in EC '21.

"Bayesian Privacy" (with Ran Eilat and Kfir Eliaz)
Theoretical Economics, Vol. 16 (4), Pages 1557-1603, 2021.

"Informational Robustness in Intertemporal Pricing" (with Jonathan Libgober)
Review of Economic Studies, Vol. 88 (3), Pages 1224-1252, 2021.

"From Blackwell Dominance in Large Samples to Rényi Divergences and Back Again"
(with Luciano Pomatto, Philipp Strack and Omer Tamuz)
Econometrica, Vol. 89 (1), Pages 475-506, 2021.

"Complementary Information and Learning Traps" (with Annie Liang)
Quarterly Journal of Economics, Vol. 135 (1), Pages 389-448, 2020. Extended Abstract in EC '18.

"Optimal and Myopic Information Acquisition" (with Annie Liang and Vasilis Syrgkanis)
Proceedings of the 2018 ACM Conference on Economics and Computation, Pages 45-46, 2018.

"Log-concavity of a Mixture of Beta Distributions"
Statistics and Probability Letters, Vol. 99, Pages 125-130, 2015.

"Differentially Private and Incentive Compatible Recommendation System for the Adoption of Network Goods" (with Kevin He)
Proceedings of the 2014 ACM Conference on Economics and Computation, Pages 949-966, 2014.

Working Papers:
"Sequentially Optimal Pricing under Informational Robustness" (with Zihao Li and Jonathan Libgober)

"Stand Out from the Millions: Market Congestion and Information Friction on Global E-Commerce Platforms" (with Jie Bai, Maggie Chen, Jin Liu and Daniel Yi Xu)
-Revise and Resubmit at *Review of Economics and Statistics*

"Privacy Preserving Auctions" (with Ran Eilat and Kfir Eliaz)

"Paying for Attention: The Impact of Information Processing Costs on Bayesian Inference" (with Scott D. Kominers and Alexander Peysakovich)
-Revise and Resubmit at *Games and Economic Behavior*

"Amendment Voting with Incomplete Preferences"
-Revise and Resubmit at *Social Choice and Welfare*

"Keeping Your Story Straight: Truthtelling and Liespotting" (with Johannes Hörner and Nicolas Vieille)

Work in Progress:
"Reciprocity Rather Than Money: Public Goods Contribution Without Transfers" (with Bård Harstad and Johannes Hörner)

Professional Service:

Refereeing for American Economic Review, Econometrica, Journal of Political Economy, Quarterly Journal of Economics, Review of Economic Studies, Theoretical Economics, Games and Economic Behavior, Journal of Economic Theory, Journal of Mathematical Economics, Management Science

Program Committee for EC '19, EC '20, EC '21, EC '22, ACM Conference on Economics and Computation

Program Committee for the China Meeting of the Econometric Society 2021

Invited Talks:

2017/18:	INFORMS Meetings, Columbia DRO, Princeton, UPenn, Yale, Columbia, Berkeley, INSEAD Singapore, Kansas Theory Workshop, Stony Brook Game Theory Conference
2018/19:	UIUC, Michigan, Rochester, ASU Economic Theory Conference, Brown, UCLA, Simons Institute Beyond Differential Privacy Workshop, Hong Kong University, Asian Meeting of the Econometric Society, SHUFE Summer Workshop, SAET Conference, BFI Economic Theory Conference
2019/20:	NSF/NBER/CEME Math Econ Conference, Theory at Penn State Conference, AEA Winter Meetings, UC Riverside Theory Workshop, Duke/UNC
2020/21:	Stanford, USC, Maryland, Bocconi, Bonn, University of Copenhagen, Peking University, Hong Kong University of Science and Technology, Sao Paulo School of Economics, Stony Brook Workshop on Strategic Communication and Learning, EC '21
2021/22:	Emory, Northwestern, Ohio State, University of Toronto, Collegio Carlo Alberto
2022/23:	NYU, Penn State, Cornell, Berkeley, UC Riverside
2023/24:	UPenn, Pittsburg and CMU, Arizona State University and University of Arizona, Virtual Seminar in Economic Theory

Honors and Awards:

2009, 2011	Winner of the William Lowell Putnam Mathematics Competition
2008	Gold Medal at the International Mathematical Olympiad

Personal Information:

Citizenship: Chinese

Languages: English (proficient), Chinese (native)