Songzi Du

Contact Information

Department of Economics
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Research

Game Theory, Mechanism Design, Market Microstructure

Employment

University of California, San Diego

Associate Professor, Department of Economics — July 2021 — present

Assistant Professor, Department of Economics — July 2018 — June 2021

Simon Fraser University

Assistant Professor, Department of Economics — Sep. 2012 — Aug. 2018

Education

Stanford Graduate School of Business, Stanford, CA

Ph.D., Economic Analysis and Policy — Sep. 2007 — June 2012
Advisors: Michael Ostrovsky, Andrzej Skrzypacz, and Robert Wilson

Massachusetts Institute of Technology, Cambridge, MA

Bachelor of Science, Mathematics — Sep. 2003 — June 2007
Bachelor of Science, Economics

Working Papers

Participation-Adaptive Pricing, with Benjamin Brooks and Linchen Zhang, 2024.

Robust Predictions with Bounded Information, with Benjamin Brooks and Alexander Haberman, 2024.

Robust Mechanisms for the Financing of Public Goods, with Benjamin Brooks, 2023.

On the Structure of Informationally Robust Optimal Mechanisms, with Benjamin Brooks, 2023. Conditionally accepted at *Econometrica*

Maxmin Auction Design with Known Expected Values, with Benjamin Brooks, 2021.

Rigidity of Transfers and Unraveling in Matching Markets, with Yair Livne, 2016.

Publications

Optimal Auction Design with Common Values: An Informationally Robust Approach, with Benjamin Brooks. *Econometrica*, Volume 89, Number 3, May 2021, Pages 1313–1360.

Robust Mechanisms Under Common Valuation. *Econometrica*, Volume 86, Number 5, September 2018, Pages 1569–1588.

What is the Optimal Trading Frequency in Financial Markets?, with Haoxiang Zhu. *Review of Economic Studies*, Volume 84, Issue 4, 1 October 2017, Pages 1606–1651.

- Kepos Capital Award for Best Paper on Investments, Western Finance Association, 2015
- Yihong Xia Best Paper Award, China International Conference in Finance, 2013

Are CDS Auctions Biased and Inefficient?, with Haoxiang Zhu. *Journal of Finance*, Volume 72, Issue 6, December 2017, Pages 2589–2628.

Bilateral Trading in Divisible Double Auctions, with Haoxiang Zhu. *Journal of Economic Theory*, Volume 167, January 2017, Pages 285–311.

Correlated Equilibrium and Higher Order Beliefs about Play. *Games and Economic Behavior*, Volume 76, Issue 1, September 2012, Pages 74–87.

Extremal Quantiles and Value-at-Risk, with Victor Chernozhukov. *The New Palgrave Dictionary of Economics*, Second Edition, 2008.

Presentations

2024: Yale, Northwestern, Bocconi, EUI

2023: Georgia Tech, Toronto, CUHK-HKU-HKUST Joint Theory Seminar, SAET

2022: Caltech, Michigan, Boston College, KIT-Paris-ZEW Workshop on Market Design, ESSET Gerzensee Conference on "Credible Mechanisms", ASU 9th Annual Economic Theory Conference

2021: ACM EC tutorial on "Robust Auction Design", SIGecom Winter Meeting, Emory University

2020: University of Southern California

2019: Chinese University of Hong Kong, UT Austin, UCLA, National University of Singapore, Singapore Management University, UC Riverside, Workshop on New Directions in Mechanism Design

2018: Rice, UCSD, Canadian Economic Theory Conference, UBC Summer Workshop in Economic Theory

2017: Harvard/MIT, University of Chicago, Purdue University, Cowles Summer Conference on Economic Theory, INFORMS Annual Meeting, Zhejiang Game Theory Conference

2016: Richmond Fed, NBER Market Design Meeting, AEA Annual Meeting, Canadian Economic Theory Conference

2015: National University of Singapore, University of Toronto, Western Finance Association Meeting, Canadian Economic Theory Conference, SAET, Econometric Society World Congress

2014: Stanford SITE (Dynamic Games, Contracts, and Markets), Econometric Society Summer Meeting, SAET, UBC Summer Workshop in Economic Theory, Imperial College High Frequency Trading Conference

2013: Bank of Canada, Barcelona Workshop (Information, Competition and Market Frictions), SAET, Econometric Society Summer Meeting, Canadian Economic Theory Conference, Midwest Theory Conference, Stony Brook Game Theory Conference

2012: Penn State, Vanderbilt University, University of Iowa, Simon Fraser University, University of British Columbia, Econometric Society Summer Meeting, Match-up Budapest Workshop, Game Theory Society World Congress, SIAM Financial Mathematics

2011: ECB-Bank of England Workshop (Asset Pricing Models in the Aftermath of the Financial Crisis)

2010: Duke-Northwestern-Texas IO Theory Conference, Stony Brook Workshop on Epistemic Game Theory

Grants

2022 National Science Foundation Grant for “New Informationally Robust Approaches to Mechanism Design and Games of Incomplete Information,” with Benjamin Brooks

2017 Insight Development Grant, Social Sciences and Humanities Research Council of Canada

Editorial Work

Associate Editor, *Journal of Economic Theory* (2020—present)

AER: Insights Excellence in Refereeing Award, 2022

Referee for: American Economic Journal: Microeconomics, American Economic Review, American Economic Review: Insights, Canadian Journal of Economics, Dynamic Games and Applications, Econometrica, Economic Theory, Economics and Computation, Games and Economic Behavior, Journal of Economic Theory, Journal of Finance, Journal of Political Economy, National Science Foundation, Rand Journal of Economics, Review of Economic Studies, Review of Financial Studies, Theoretical Economics, WINE

Teaching

Intermediate Microeconomics (undergraduate), Decisions under Uncertainty (undergraduate), Auctions (undergraduate), Market Microstructure (graduate), First-Year Microeconomic Theory (graduate)

Phd Supervision

Linchen Zhang* (in progress), Wanchang Zhang* (2023, CUHK Shenzhen), Haitian Xie (2023, Peking University, Guanghua School of Management), Nikolaus Robalino (2015, Rochester Institute of Technology), Haiyun Chen (2017, Grinnell College)
* primary advisor

Misc.

Citizenship: USA.