# BENJAMIN A. BROOKS

#### Contact

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#### Employment

VISITING ASSOCIATE PROFESSOR, 2023 Department of Economics, Stanford University

ASSOCIATE PROFESSOR, 2022– ASSISTANT PROFESSOR, 2016–2022 Kenneth C. Griffin Department of Economics, University of Chicago

RESEARCH SCHOLAR, 2014–2016 Becker Friedman Institute, University of Chicago

#### EDUCATION

PH.D. IN ECONOMICS, June 2014 Committee chairs: Dilip Abreu and Stephen Morris Princeton University, Princeton, NJ

M.A. IN ECONOMICS, 2010 Princeton University, Princeton, NJ

B.A. IN MATHEMATICS AND QUANTITATIVE ECONOMICS, Magna Cum Laude, 2008 Tufts University, Medford, MA

### FIELDS OF INTEREST

Microeconomic theory, mechanism design, auctions, repeated games, computational game theory.

#### PUBLICATIONS

THE LIMITS OF PRICE DISCRIMINATION, with Dirk Bergemann and Stephen Morris, *The American Economic Review*, 2015.

FIRST-PRICE AUCTIONS WITH GENERAL INFORMATION STRUCTURES, with Dirk Bergemann and Stephen Morris, *Econometrica*, 2017. CULTURAL IMPEDIMENTS TO LEARNING TO COOPERATE: AN EXPERIMENTAL STUDY OF HIGH- AND LOW-CASTE MEN IN RURAL INDIA, with Karla Hoff and Priyanka Pandey, *Proceedings of the National Academy of Sciences*, 2018.

REVENUE GUARANTEE EQUIVALENCE, with Stephen Morris and Dirk Bergemann, *The American Economic Review*, 2019.

AN ALGORITHM FOR STOCHASTIC GAMES WITH PERFECT MONITORING, with Dilip Abreu and Yuliy Sannikov, *Econometrica*, 2020.

COUNTERING THE WINNER'S CURSE: OPTIMAL AUCTION DESIGN IN A COMMON VALUE MODEL, with Dirk Bergemann and Stephen Morris, *Theoretical Economics*, 2020.

OPTIMAL AUCTION DESIGN WITH COMMON VALUES: AN INFORMATIONALLY ROBUST APPROACH, with Songzi Du, *Econometrica*, 2021.

SEARCH, INFORMATION, AND PRICES, with Dirk Bergemann and Stephen Morris, *The Journal of Political Economy*, 2021.

COUNTERFACTUALS WITH LATENT INFORMATION, with Dirk Bergemann and Stephen Morris, *The American Economic Review*, 2022.

INFORMATION HIERARCHIES, with Alex Frankel and Emir Kamenica, *Econometrica*, 2022.

A CANONICAL GAME – 75 YEARS IN THE MAKING – SHOWING THE EQUIVALENCE OF MATRIX GAMES AND LINEAR PROGRAMMING, with Philip J. Reny *Economic Theory Bulletin*, 2023.

### WORKING PAPERS

ON THE STRUCTURE OF INFORMATIONALLY ROBUST OPTIMAL MECHANISMS, with Songzi Du, revise and resubmit at *Econometrica*. COMPARISONS OF SIGNALS, with Alex Frankel and Emir Kamenica.

revise and resubmit at *The American Economic Review*.

ROBUST PREDICTIONS WITH RESTRICTED INFORMATION, with Songzi Du and Alexander Haberman

- ON THE ALIGNMENT OF CONSUMER SURPLUS AND TOTAL SURPLUS UNDER COMPET-ITIVE PRICE DISCRIMINATION, with Dirk Bergemann and Stephen Morris.
- ROBUST MECHANISMS FOR THE FINANCING OF PUBLIC GOODS, with Songzi Du.
- MAXMIN AUCTION DESIGN WITH KNOWN EXPECTED VALUES, with Songzi Du.
- INFORMATIONALLY ROBUST OPTIMAL AUCTION DESIGN, with Dirk Bergemann and Stephen Morris.
- Surveying and selling: Belief and surplus extraction in Auctions
- REVENUE SHARING IN SECOND-PRICE AUCTIONS

# TEACHING

- ECON 20700 Game Theory and Economic Applications
- ECON 20770 Decision and Strategy
- ECON 20780 Decision and Strategy II
- ECON 30200 Price Theory II
- ECON 30510 Topics in Economic Theory
- ECON 49700 Required Research Seminar

# Honors and Awards

NSF # 2215259, "Collaborative Research: New Informationally Robust Approaches to Mechanism Design and Games of Incomplete Information," with Songzi Du, 2022–2025 NSF # 1757222, "Optimal Auction Design with Common Values: An Informational Robust Approach," 2018-2021 NSF # 1530823, "Collaborative Research: New Algorithms for Computing Equilibria of

Stochastic Games," with Dilip Abreu and Yuliy Sannikov, 2015-2018

Excellence in Refereeing Award 2017, American Economic Review

## PROFESSIONAL ACTIVITIES

- Associate Editor and Guest Editor, American Economic Review: Insights, 2022-
- Associate Editor, Theoretical Economics, 2023–
- Co-editor, Economic Theory, 2023-
- Editorial board, Economic Theory, 2021-
- ACM Economics and Computation, Program Committee, 2019, 2021–2023 Area chair, 2021–2023
- Econometric Society North American Winter Meetings, Program Committee, 2024
- 7th World Congress of the Game Theory Society, Program Committee, 2024
- SAET Conference, Program Committee, 2023
- Member of the Econometric Society, the American Economic Association, and the Society for the Advancement of Economic Theory.
- Conferences organized: BFI Summer Theory Conference, 2015, 2016, 2017, 2021; NSF/NBER/CEME Mathematical Economics Conference, 2018.
- Referee for The American Economic Review, The Quarterly Journal of Economics, The Review of Economic Studies, The International Journal of Game Theory, Econometrica, The Journal of Political Economy, Games and Economic Behavior, The RAND Journal of Economics, Theoretical Economics, Journal of the European Economic Association, Economic Theory, National Science Foundation, Discrete and Applied Mathematics, Mathematics of Operations Research.