

Gabriel Carroll
Curriculum Vitae
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Personal Information

Birthdate: December 24, 1982

Citizenship: USA

Education

PhD in Economics, Massachusetts Institute of Technology, 2012

Doctoral thesis: “Approaches to Mechanism Design with Boundedly Rational Agents”

Advisors: Parag Pathak, Daron Acemoglu, Glenn Ellison

BA in Mathematics and Linguistics, summa cum laude, Harvard College, 2005

Employment

Associate professor (tenured) in Department of Economics, Stanford University, July 2020 – present

Assistant professor in Department of Economics, Stanford University, July 2013 – June 2020

Post-doctoral researcher at Microsoft Research, July 2012 – June 2013

Instructor at Mathematical Olympiad Summer Program, Summer 2008, 2009, 2010, 2012

Research assistant for James Choi, David Laibson, and Brigitte Madrian at NBER, August 2006 – July 2007

Volunteer English teacher at Chaling #1 Middle School, Chaling, Hunan, China, August 2005 – July 2006

Visiting Positions (one month or more)

Visitor at Research School of Economics, Australian National University, March – May 2018;
March – May 2019

Visitor at Cowles Foundation, Yale University, February – March 2018

Part-time visiting scholar at Simons Institute, UC Berkeley, August – December 2015

Refereed Publications

“Strategic Communication with Minimal Verification” (with Georgy Egorov), 2019
Econometrica 87 (6), 1867–1892

“Robust Incentives for Information Acquisition,” 2019
Journal of Economic Theory 181, 382–420

“Robustly Optimal Auctions with Unknown Resale Opportunities” (with Ilya Segal), 2019
Review of Economic Studies 86 (4), 1527–1555

“On Mechanisms Eliciting Ordinal Preferences,” 2018
Theoretical Economics 13 (3), 1275–1318

“Robustness and Separation in Multidimensional Screening,” 2017
Econometrica 85 (2), 453–488

“Robust Contracting with Additive Noise” (with Delong Meng), 2016
Journal of Economic Theory 166, 586–604

“Informationally Robust Trade and Limits to Contagion,” 2016
Journal of Economic Theory 166, 334–361
(formerly titled “Informationally Robust Trade Under Adverse Selection”)

“Locally Robust Contracts for Moral Hazard” (with Delong Meng), 2016
Journal of Mathematical Economics 62, 36–51

“Robustness and Linear Contracts,” 2015
American Economic Review 105 (2), 536–563

“A General Equivalence Theorem for Allocation of Indivisible Objects,” 2014
Journal of Mathematical Economics 51, 163–177

“When are Local Incentive Constraints Sufficient?,” 2012
Econometrica 80 (2), 661–686

“An Efficiency Theorem for Incompletely Known Preferences,” 2010
Journal of Economic Theory 145 (6), 2463–2470

“Optimal Defaults and Active Decisions” (with James J. Choi, David Laibson, Brigitte C. Madrian, and Andrew Metrick), 2009
Quarterly Journal of Economics 124 (4), 1639–1674

“The Cube Recurrence” (with David Speyer), 2004
Electronic Journal of Combinatorics 11 (1), #R73

Surveys and Expository Publications

“Robustness in Mechanism Design and Contracting,” 2019
Annual Review of Economics 11, 139-166

“Design for Weakly Structured Environments,” 2019
In *The Future of Economic Design* (eds. Jean-François Laslier, Hervé Moulin, M. Remzi Sanver, William S. Zwicker), Springer, 27–33

“Robust Incentives for Effort,” 2013
SIGecom Exchanges 12 (2), 32–35

Unpublished Papers

“When are Robust Contracts Linear?” (with Daniel Walton), 2019

“Information Games and Robust Trading Mechanisms,” 2019

“A Complexity Result for Undominated-Strategy Implementation,” 2014

“A Quantitative Approach to Incentives: Application to Voting Rules,” 2013

“The Efficiency-Incentive Tradeoff in Double Auction Environments,” 2011

“Efficient Random Assignment with Constrained Rankings,” 2010

Honors and Awards

NSF CAREER Award: “Foundational Questions in the Theory of Incentives” (2019 – 2024)

Sloan Foundation Fellowship (2017 – 2019)

Trione Faculty Scholar at Stanford (2017)

American Economic Review Excellence in Refereeing award (2016, 2018)

Aliprantis Prize for economics paper by a young theorist (2015)

Review of Economic Studies tour (2012)

Yahoo! Key Scientific Challenges fellowship (2011)

NSF Graduate Research Fellowship (2007)

Putnam Fellow (2000, 2001, 2002, 2003)

External Seminars

(Seminars marked (r) were delivered remotely due to COVID-19.)

2020: U of Toronto, Toulouse, UCSD (r), UBC (r), Columbia (r), Rice (r)

2019: JHU, Texas A & M, U of Melbourne, ANU, Bocconi, UiO, Oxford, Essex, SFU

2018: NYU, ANU, UC-Davis, Caltech

2017: Michigan, Yale, Northwestern, CUHK, NUS, UQ, Chicago, ASU, OSU

2016: MIT, Penn State, UCL, Warwick, LSE, Princeton, UCSD, ANU, UNSW, HU-Berlin, Mannheim, Bonn

2015: USC, Berkeley, Wharton Finance, Northwestern, U of Western Ontario, U of Toronto

2014: Texas A & M, UT-Austin

2013: UIUC, Université de Montréal, BU, NYU, Wisconsin, Duke, Wash U, Minneapolis Fed, Columbia

2012: Princeton, Berkeley, Stanford Economics, Stanford GSB, Kellogg MEDS, Chicago Booth, Chicago Economics, Harvard Economics, Yale, Cornell, Toulouse, Zurich / ETH, Harvard EconCS, Caltech, UCLA

2011: Carnegie Mellon, Yahoo! Research, Boston College, Microsoft Research

Conference Presentations

2019: UCL Frontiers in Design; Stony Brook Game Theory Festival

2017: NSF-CEME Decentralization; Simons Institute Econ-CS Reunion; Conference in Honor of Bengt Holmström

2016: NSF-CEME Decentralization; NBER Market Design

2015: LAEF Robustness and Ambiguity in Economics; BFI Theory of Information in Games; SAET Trends in Economic Theory; Simons Institute Workshop on Complexity in Economics

2014: Econometric Society; Cowles Foundation Economic Theory Conference; Jean-Jacques Laffont Memorial Conference on Mechanism Design and Industrial Organization; Shanghai Microeconomics Workshop; ASU Topics in Contracting Theory Conference

2013: Gaming and Learning in Incentive Systems; EC'13 (ACM Conference on Electronic Commerce)

2012: Review of Economic Studies Tour

2010: MathFest; CIMAT Workshop in Prior-Free Mechanism Design

Graduate Students

(Students for whom I have served as a primary or secondary PhD advisor; primary advisees are marked with (*). Students are listed with graduation year and initial placement.)

(*) Delong Meng, 2019 (Southwest Baptist University)

Shunya Noda, 2019 (University of British Columbia)

(*) Xin Jin, 2018 (Facebook Research)

Shota Ichihashi, 2018 (Bank of Canada)

Stephen Nei, 2017 (Oxford, Nuffield College post-doc)

Yiqing Xing, 2016 (Johns Hopkins, Carey Business School)

Shengwu Li, 2016 (Harvard Society of Fellows / Harvard Economics)

Joshua Mollner, 2015 (Microsoft Research post-doc / Northwestern, Kellogg MEDS)

Undergraduate Students

(This section lists undergraduate honors theses I have supervised; it does not include routine academic advising.)

Hugh Zhang, 2020; recipient of Sobieski Award for Creative Thinking

Professional Activities

Board of Editors member at *American Economic Review*, 2020 –

Associate Editor at *Theoretical Economics*, 2019 –

Organizer for Workshop on New Directions in Mechanism Design, Stony Brook, 2019

Program Committee member for Econometric Society Winter Meetings, 2018

Senior Program Committee member for EC (ACM Conference on Economics and Computation), 2016; Program Committee member, 2013

Chair of USA Mathematical Olympiad committee, 2016 – 2019; committee member, 2013 – 2016

Speaker for Bay Area Mathematical Olympiad award ceremony, 2015

Refereeing: *American Economic Journal: Economic Policy*; *American Economic Journal: Microeconomics*; *American Economic Review*; *B. E. Journal of Theoretical Economics*; *Econometrica*; *Economics Letters*; *Economic Theory*; *Games and Economic Behavior*; *INFORMS Journal on Computing*; *International Journal of Game Theory*; *Journal of Economic Theory*; *Journal of the European Economic Association*; *Journal of Health Economics*; *Journal of Law, Economics, and Organization*; *Journal of Mathematical Economics*; *Journal of Political Economy*; *Mathematics of Operations Research*; *Mathematical Social Sciences*; *Quarterly Journal of Economics*; *RAND Journal of Economics*; *Review of Economic Studies*; *Social Choice and Welfare*; *Theoretical Economics*; ITCS (Innovations in Theoretical Computer Science); STOC (Symposium on the Theory of Computing); National Science Foundation (USA); Swiss National Science Foundation; Israel Science Foundation