

MALLESH M PAI

CONTACT INFORMATION	Department of Economics Rice University 6100 Main St, Houston TX 77005 USA.	+1 773 273 9684 mallesh.pai@rice.edu http://www.mallesmpai.com
EMPLOYMENT	Department of Economics, Rice University Associate Professor Assistant Professor	Jul 2019–present Jul 2016–Jun 2019
	Department of Economics, University of Pennsylvania Janice and Julian Bers Assistant Professor of the Social Sciences Assistant Professor Lecturer	Jul 2014–Jun 2016 Jul 2011–Jun 2014 Jul 2010–Jun 2011
OTHER AFFILIATIONS	CEPR Research Fellow	2020 –present
RESEARCH INTERESTS	Mechanism Design, Economic Theory, Decision Theory, Statistical learning/Statistical Decision Theory	
EDUCATION	NORTHWESTERN UNIVERSITY, Evanston, IL, USA Ph.D, Managerial Economics and Strategy	Sep 2004–Jun 2010
	INDIAN INSTITUTE OF TECHNOLOGY, New Delhi, India Bachelor of Technology, Computer Science and Engineering	Jul 2000–May 2004
GRANTS	NSF Grant CCF-1763349, “Foundations of Fair Data Analysis.” 2018 – 2022, Award Amount: ~ \$250,000 (Rice), Joint with: Sampath Kannan, Aaron Roth, Rakesh Vohra (UPenn). NSF ICES Grant CCF-1101389, “Economic Foundations of Digital Privacy.” 2011 – 2015, Award amount: ~ \$990,000, Joint with: Sham Kakade, Michael Kearns, Aaron Roth (UPenn).	
AWARDS	Ralph O’Connor Award for Distinction in Teaching and Research in Economics, 2018 (Rice) Irving B. Kravis Prize for Distinction in Undergraduate Teaching, 2015 (UPenn) Aditya Birla Scholar, 2000 (IIT Delhi)	
REFEREED JOURNAL PUBLICATIONS	<ol style="list-style-type: none">1. Algorithmic Collusion: Supra-competitive Prices via Independent Algorithms (with Karsten Hansen and Kanishka Misra). Forthcoming, <i>Marketing Science: Frontiers</i>.2. Evaluating Strategic Forecasters (with Rahul Deb and Maher Said). <i>American Economic Review</i>. 108(10), October 2018, 3057–3103.3. Mental Health Stigma (with Prashant Bharadwaj and Agne Suziedelyte). <i>Economics Letters</i>. 159, October 2017, 57–60.4. Discrimination via Symmetric Auctions (with Rahul Deb). <i>American Economic Journal: Microeconomics</i>. 9(1), February 2017, 275–314.5. An Anti-Folk Theorem for Large Repeated Games with Imperfect Monitoring (with Aaron Roth and Jon Ullman). <i>ACM Transactions in Economics and Computation</i>, 5(2), October 2016.6. Social Learning with Costly Search (with Manuel Mueller-Frank). <i>American Economic Journal: Microeconomics</i>, 8(1), February 2016, 83–109.7. Optimal Auctions for Financially Constrained Bidders (with Rakesh Vohra), <i>Journal of Economic Theory</i>, 150, March 2014, 383–425.8. Coarse Decision Making and Overfitting (with Nabil Al-Najjar), <i>Journal of Economic Theory</i>, 150, March 2014, 467–486.	

9. The Geometry of Revealed Preference (with Rahul Deb), *Journal of Mathematical Economics*, 50, January 2014, 203–207.
10. Optimal Dynamic Auctions and Simple Index Rules (with Rakesh Vohra), *Mathematics of Operations Research*, 38(4), November 2013, 682–697.

REFEREED
CONFERENCE
PUBLICATIONS

1. Fair Prediction with Endogenous Behavior (with Changwa Lee, Christopher Jung, Sampath Kannan, Aaron Roth and Rakesh Vohra), In Proceedings of the *21st ACM Conference on Electronic Commerce (EC)*, 2020.
2. Fairness Incentives for Myopic Agents (with Sampath Kannan, Michael Kearns, Jaimie Morgenstern, Aaron Roth, Rakesh Vohra and Zhiwei Hu), In Proceedings of the *18th ACM Conference on Electronic Commerce (EC)*, 2017.
3. The Strange Case of Privacy in Equilibrium Models (with Rachel Cummings, Katrina Liggett and Aaron Roth), In Proceedings of the *17th ACM Conference on Electronic Commerce (EC)*, 2016.
4. Mechanism Design in Large Games: Incentives and Privacy (with Michael Kearns, Aaron Roth and Jon Ullman), in Proceedings of *Innovations in Theoretical Computer Science (ITCS)*, 2014.
5. Ironing in Dynamic Revenue Management: Posted Prices and Biased Auctions (with Rahul Deb), In Proceedings of the *Symposium on Discrete Algorithms (SODA)*, 2013.
6. Auctions on a Supply Chain (with Jon Feldman, Vahab Mirrokni and S. Muthukrishnan). In Proceedings of the *11th ACM Conference on Electronic Commerce (EC)*, 2010.

OTHER
PUBLICATIONS

1. Mechanism Design in Large Games: Incentives and Privacy (with Michael Kearns, Aaron Roth and Jon Ullman), *American Economic Review: Papers & Proceedings*, May 2014.
2. Privacy and Mechanism Design, *SIGecom Exchanges*, 13(1), June 2013.
3. Competition in Mechanisms, *SIGecom Exchanges*, 9(1), June 2010.

WORKING
PAPERS

1. Continuous Implementation with Direct Revelation Mechanisms (with Yi-Chun Chen and Manuel Mueller-Frank). Revise and Resubmit.
2. (Bad) Reputation in Relational Contracting (with Rahul Deb and Matt Mitchell). Under Review.
3. Moment Multicalibration for Uncertainty Estimation (with Chris Jung, Changhwa Lee, Aaron Roth and Rakesh Vohra). Under Review.
4. Competing Models (with Jose Montiel-Olea, Pietro Ortoleva, Andrea Prat).
5. Dynamic Incentives for Buy-Side Analysts (with Rahul Deb and Maher Said).
6. Online Multivald Learning: Means, Moments, and Prediction Intervals (with Varun Gupta, Christopher Jung, Georgy Noarov and Aaron Roth).

WORK IN
PROGRESS

1. Mechanism Redesign (with Philipp Strack).
2. Bad Blood (with Joyee Deb and Maher Said).

PATENTS

Fair Discounting Auction (US Patent #7778869)

PREVIOUS
PROFESSIONAL
EXPERIENCE

GOOGLE INC., New York City, NY, USA Jun 2009—Sep 2009
Intern, Google Research

MICROSOFT CORP., Redmond, WA, USA Jun 2006—Sep 2006
Research Intern, Theory Group, Microsoft Research

INDIAN STATISTICAL INSTITUTE, Delhi, India May 2004—Aug 2004
Visitor, Planning Department

PHD COMMITTEES	<p>Fei Li (2013, first job: University of North Carolina at Chapel Hill), Rudolph Henkel (co-chair, 2015, first job: Ursinus College), Yunan Li (2017, first job: City University of Hong Kong), Mustafa Dogan (2017, first job: Carnegie Mellon University (post-doc)), Nishant Ravi (2019, first job: Indian School of Business), Atara Oliver (co-chair, 2020, first job: ESMT Berlin (post-doc)), Kirill Evdokimov (2022 expected), Maksat Abasov (chair, 2022 expected).</p>
REFeree SERVICES	<p>American Economic Review, American Economic Journal: Microeconomics, BE Journal of Theoretical Economics, Econometrica, Economic Theory, Economics Bulletin, European Journal of Operations Research, Games and Economic Behavior, International Economic Review, International Journal of Game Theory, International Journal of Industrial Organization, Journal of Economic Theory, Journal of Economics and Management Strategy, Journal of the European Economic Association, Journal of Mathematical Economics, Journal of Public Economics, Management Science, Mathematics of Operations Research, Operations Research, Review of Economic Design, Review of Economic Studies, Theoretical Economics, and Transactions on Economics and Computation. Reviewer for NSF, Israel Science Foundation and Chilean National Science and Technology Commission.</p>
ORGANIZING COMMITTEE	<p>14th ACM Conference on Electronic Commerce (2013), New York Computer Science and Economics Day (2011), Ad Auctions Workshop (2012).</p>
PROGRAM COMMITTEE	<p>19th ACM Conference on Economics and Computation (2018), 16th ACM Conference on Electronic Commerce (2015) (Senior PC), Workshop on Internet Economics, 14th ACM Conference on Electronic Commerce (2013) (Senior PC), 22nd International World Wide Web Conference (2013), 13th ACM Conference on Electronic Commerce (2012), 12th ACM Conference on Electronic Commerce (2011), 20th International World Wide Web Conference (2011), Workshop on Bayesian Mechanism Design (2011), Ad Auctions Workshop (2010).</p>
SEMINARS AND PRESENTATIONS	<p>2021 (scheduled) Ashoka University, Wharton Business School, London School of Economics, University of Bonn, ESSET. 2020 UC Riverside Economic Theory Workshop, Shiv Nadar University, Queen Mary University of London, European University Institute. 2019 Royal Holloway, University College London, CETC Montreal, CCC Workshop on Fairness, D-TEA Paris, SITE Stanford, BFI Conference UChicago, Yale, Workshop in honor of Arunava Sen's 60th. 2018 University of North Carolina at Chapel Hill, IMS Singapore, SAET Taiwan, ESSET, 2nd Workshop on Information and Social Economics. 2017 University of British Columbia, Canadian Economic Theory Conference, Workshop on Networks and Information at JHU, PUC Chile, Texas Theory Camp, CIREQ Montreal Microeconomic Theory Conference, Law and Economic Theory Workshop at Rice (Discussant) 2016 Cornell University, Yale University, Google NYC, Workshop on Information and Social Economics at Caltech, Texas A&M, 2nd Occasional Workshop on Economic Theory at University of Graz, Workshop on the Economics of Privacy at Cambridge University, UPenn, UIowa. 2015 Columbia University, Duke University, Caltech, UC Berkeley, Workshop on Complexity and Simplicity in Economics at Simons Institute, Boston University, UCLA, Northwestern University. 2014 American Economic Association Meetings (Discussant), University of Pennsylvania, Pan-Pennsylvania Theory Conference, Canadian Economic Theory Conference, Workshop on Social Learning at IESE (Barcelona), University of Rochester, Ohio State University, Microsoft Research NE/ Harvard University, Princeton University.</p>

- 2013 Washington University at St. Louis, Arizona State University,
Simons Foundation Workshop on Privacy, Workshop on Privacy and Economics (Caltech)
Board of Governors/ OFR Workshop on Financial Stability (Panelist)
Dagstuhl, SAET Paris, Asian Econometric Society Summer Meetings,
Philadelphia Search and Matching Workshop (Discussant), Penn State University,
University of Wisconsin, University of Pittsburgh, Booth School of Business (UChicago),
Amherst College.
- 2012 University of Toulouse, Bocconi University, Northwestern University (CS),
Yeshiva University, NBER Market Design Group, Midwest Economic Theory Conference (WashU),
NSF-NBER GE and Math Econ, NA Econometric Society Summer Meetings,
UKansas Workshop on Economic Theory.
- 2011 NYU Sloan, University of Western Ontario, University of Toronto,
Tutorial at 12th ACM Conference on Electronic Commerce.
- 2010 Cornell, MIT Sloan, Yahoo Research (NYC), Columbia GSB, UPenn, Stanford GSB,
Caltech, Microsoft Research (Silicon Valley), Microsoft Research (Redmond), ACM-EC (Boston),
NBER Market Design Group.
- 2008 Google Research (NYC), Society of Economic Design (University of Michigan).
- 2007 Midwest Economic Theory Conference (University of Michigan).
- 2006 INFORMS (Pittsburgh), Microsoft Research (Redmond).

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