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ASHESH RAMBACHAN

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Employment

2022-2023 Postdoctoral Researcher, Microsoft Research New England.

2023- Assistant Professor, Department of Economics, M.I.T.

Education

2017-2022 Ph.D. in Economics, Harvard University.

Dissertation title: “Essays on Identification and Causality”

Dissertation committee: Isaiah Andrews, Sendhil Mullainathan, Neil Shephard,
Elie Tamer.

2013-2017 A.B., Economics, Princeton University, *Summa Cum Laude*.

Research Interests

Econometrics, Machine Learning, Public Economics.

Fellowships and Awards

2022 David A. Wells Prize for Best Dissertation in Economics.

2022 Review of Economic Studies European Tour.

2022 China Star Tour.

2017-2020 National Science Foundation Graduate Research Fellowship.

Working Papers

“Identifying Prediction Mistakes in Observational Data.” Working paper.

“An Economic Approach to Regulating Algorithms” (with Jon Kleinberg, Jens Ludwig, and Sendhil Mullainathan). NBER Working Paper No. 27111.

“A More Credible Approach to Parallel Trends” (with Jonathan Roth). Working paper. Revise and Resubmit at *The Review of Economic Studies*.

“When do Common Time Series Estimands have Nonparametric Causal Meaning?” (with Neil Shephard). Working paper.

“Design-based Uncertainty in Quasi-Experiments” (with Jonathan Roth). Working paper.

Publications

“Panel Experiments and Dynamic Causal Effects: A Finite Population Perspective” (with Iavor Bojinov and Neil Shephard). 2021. *Quantitative Economics*, 12 (4), Pp. 1171-1196.

“Characterizing Fairness over the Set of Good Models under Selective Labels” (with Amanda Coston and Alexandra Chouldechova). 2021. *Proceedings of the 38th International Conference on Machine Learning (ICML)*, 139, Pp. 2144-2155.

“An Economic Perspective on Algorithmic Fairness” (with Jon Kleinberg, Jens Ludwig, and Sendhil Mullainathan). 2020. *AEA Papers and Proceedings*, 110, Pp. 91-95.

“Bias In, Bias Out? Evaluating the Folk Wisdom” (with Jonathan Roth). 2020. *1st Symposium on the Foundations of Responsible Computing (FORC)*, LIPIcs, 156, Pp. 6:1-6:15.

“Algorithmic Fairness” (with Jon Kleinberg, Jens Ludwig, and Sendhil Mullainathan). 2018. *AEA Papers and Proceedings*, 108, Pp. 22-27.

Seminars and Presentations

Scheduled	University of Wisconsin Madison (Business School); Caltech (Economics); Workshop on Economics of Algorithms (Brown); INFORMS Annual Meeting; Southern Economic Association Annual Meeting; Penn State (Economics); Brown University (Economics); Chamberlain Seminar; University of Toronto (Economics); Michigan State University (Economics); NBER Economics of Artificial Intelligence Conference.
2022	American Economic Association Annual Meeting; ACM SIGEcom Winter Meeting; Princeton, Microsoft Research New England; Harvard Business School (TOM Unit); MIT (Economics); University of Chicago Booth School of Business (Microeconomics); Northwestern Kellogg School of Management (MEDS); Microsoft Office of the Chief Economist; University of Pennsylvania (Economics); University of California – Berkeley (ARE); Columbia University (Economics); Yale University (Statistics and Data Science); Columbia Business School (DRO Division); Carnegie Mellon Heinz College of Information Systems and Public Policy; Stanford University (MS&E); University of California – Berkeley (Economics); Society for Economic Dynamics Annual Meeting.
2021	Econometric Society North American Winter Meeting; Brookings Institution's Artificial Intelligence Conference; ACM FAccT 2021 Tutorial on Algorithmic Fairness and Economics; ETH Online Seminar in Economics + Data Science; ZEW Conference on the Economics of Information and Communication Technologies; NBER Summer Institute (Forecasting and Empirical Methods); Southern Economic Association Annual Meeting.
2020	American Economic Association Annual Meeting; NBER Economics of Artificial Intelligence Conference; Carnegie Mellon Fairness, Accountability, and Transparency in Machine Learning Reading Group.
2019	NBER-NSF Time Series Conference; CEMMAP Workshop on Causal Inference with Interactions; European Conference of the Econometrics Community (EC) ² .

Professional Service

Referee	<i>Econometrica</i> ; <i>Epidemiology</i> ; <i>Journal of Applied Econometrics</i> ; <i>Journal of Business and Economic Statistics</i> ; <i>Journal of Econometrics</i> ; <i>Journal of Money, Credit and Banking</i> ; <i>The Econometrics Journal</i> ; <i>The Review of Economics and</i>
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Statistics; The Quarterly Journal of Economics; 35th Conference on Neural Information Processing Systems (NeurIPS) 2021; The International Conference on Machine Learning (ICML) 2022; 36th Conference on Neural Information Processing Systems (NeurIPS) 2022.

Awards	Best Reviewer -- ACM Conference on Fairness, Accountability, and Transparency (FAccT) 2022; Outstanding Reviewer – The International Conference on Machine Learning (ICML) 2022.
Program Committee	NeurIPS 2021 Workshop on Machine Learning Meets Econometrics; ACM Conference on Fairness, Accountability, and Transparency (FAccT) 2022; International Conference on Computational Social Science (IC2S2) 2022.
Discussant	Southern Economic Association Annual Meeting 2020, American Economic Association Annual Meeting 2022, Becker Friedman Institute 2022 Conference on Discrimination in the 21 st Century, Southern Economic Association Annual Meeting 2022, American Economic Association Annual Meeting 2023.
Organizer	Machine Learning in Economics Summer Institute (MLESI) 2022.

Teaching

Fall 2019	<i>Time Series Analysis</i> , Harvard University (Graduate) Teaching Fellow.
Fall 2018	<i>Principles of Econometrics</i> , Harvard University (Graduate) Teaching Fellow.