Manish Raghavan mraghavan@seas.harvard.edu

https://mraghavan.github.io/

EDUCATION

Ph.D. Computer Science	2016 2021
Cornell University	2010-2021
Advisor: Jon Kleinberg	
M.S., Computer Science	2018
Cornell University	
GPA: 4.00	
B.S., Electrical Engineering and Computer Science	2012-2016
University of California, Berkeley	
GPA: 4.00	

EMPLOYMENT

Assistant Professor	Beginning August 2022	
Massachusetts Institute of Technology, Cambridge, MA		
Sloan School of Management and Department of Electrical Engineering and	Computer Science	
Postdoctoral Fellow	August 2021–Present	
Harvard Center for Research on Computation and Society, Cambridge, MA		
Research Intern	Mav–September 2019	
Visiting Researcher	September 2019–August 2021	
Facebook, New York, NY		
Evaluated social impacts of products		
Developed educational materials for issues related to algorithmic fairness		
Software Engineering Intern	Mav–August 2018	
Google, Mountain View, CA		
Analyzed user behavior on social media		
Developed and analyzed algorithms for stochastic probing problems (results published at ICML 2019)		
Research Intern	Mav-August 2017	
Microsoft Research New York NV	May Hugust 2011	
Descended algorithmic formass in contentual handit actions (negative published at COLT 2018)		
Researched algorithmic farmess in contextual bandit settings (results publish	ed at COLI 2018)	
Teaching Assistant	January 2014–May 2016	
UC Berkeley		
CS 61B: Data Structures and Algorithms; CS 70: Discrete Math and Probability Theory; CS 170: Introduction		
to CS Theory		
Taught 30–50-student sections, held office hours, and developed course mater	ials (4 semesters total)	
Research Intern	Mav–August 2015	
Cornell University		
Developed a graph-theoretic model for sophisticated present-biased agents (results published at EC 2016)		

PUBLICATIONS

- N. Dalvi, M. Olteanu, M. Raghavan, and P. Bohannon. Deduplicating a Places Database. In Proc. 23rd International World Wide Web Conference. April 2014
- J. Kleinberg, S. Oren, and M. Raghavan. Planning Problems for Sophisticated Agents with Present Bias. In Proc. 17th ACM Conference on Economics and Computation. July 2016
- J. Kleinberg, S. Mullainathan, and M. Raghavan. Inherent Trade-offs in the Fair Determination of Risk Scores. In The 8th Innovations in Theoretical Computer Science Conference. January 2017
- M. Olteanu, N. Dalvi, and M. Raghavan. Identifying descriptive terms associated with a physical location from a location store. In U.S. Patent No. 9613054. April 2017
- J. Kleinberg, S. Oren, and M. Raghavan. Planning with Multiple Biases. In Proc. 18th ACM Conference on Economics and Computation. June 2017
- 6. G. Pleiss, M. Raghavan, F. Wu, J. Kleinberg, K. Weinberger. On Fairness and Calibration. In Proc. 31st Annual Conference on Neural Information Processing Systems. December 2017
- J. Kleinberg, M. Raghavan. Selection Problems in the Presence of Implicit Bias. In The 9th Innovations in Theoretical Computer Science Conference. January 2018
- 8. M. Raghavan, A. Anderson, J. Kleinberg. Mapping the Invocation Structure of Online Political Interaction. In Proc. 27rd International World Wide Web Conference. April 2018
- M. Raghavan, A. Slivkins, J. W. Vaughan, Z. S. Wu. The Externalities of Exploration and How Data Diversity Helps Exploitation. In Conference on Learning Theory. July 2018
- M. Raghavan, M. Purohit, S. Gollapudi. Hiring Under Uncertainty. In International Conference on Machine Learning. June 2019
- 11. J. Kleinberg, M. Raghavan. How Do Classifiers Induce Agents To Invest Effort Strategically?. In Proc. 20th ACM Conference on Economics and Computation. June 2019; Also appeared in ACM Transactions on Economics and Computing. October 2020, and as Designing Evaluation Rules that are Robust to Strategic Behavior in Proc. 34th AAAI Conference on Artificial Intelligence, Sister Conference Track, April 2020.
- 12. M. Raghavan, S. Barocas. Challenges for mitigating bias in algorithmic hiring. In The Brookings Institution. December 2019
- R. Abebe, S. Barocas, J. Kleinberg, K. Levy, M. Raghavan, D. G. Robinson. Roles for Computing in Social Change. In Proc. Third ACM Conference on Fairness, Accountability, and Transparency. January 2020
- S. Barocas, A. D. Selbst, M. Raghavan. The Hidden Assumptions Behind Counterfactual Explanations and Principal Reasons. In Proc. Third ACM Conference on Fairness, Accountability, and Transparency. January 2020
- M. Raghavan, S. Barocas, J. Kleinberg, K. Levy. Mitigating Bias in Algorithmic Hiring: Evaluating Claims and Practices. In Proc. Third ACM Conference on Fairness, Accountability, and Transparency. January 2020
- J. Finocchiaro, R. Maio, F. Monachou, G. K. Patro, M. Raghavan, A.-A. Stoica, and S. Tsirtis. Bridging Machine Learning and Mechanism Design towards Algorithmic Fairness. In Proc. Fourth ACM Conference on Fairness, Accountability, and Transparency. January 2021
- J. Kleinberg and M. Raghavan. Algorithmic Monoculture and Social Welfare. In Proc. National Academy of Sciences 118(22). June 2021

- 18. J. Kleinberg, S. Oren, M. Raghavan, and N. Sklar. Stochastic Model for Sunk Cost Bias. In Proc. 37th Conference on Uncertainty in Artificial Intelligence. July 2021
- 19. E. Black, M. Raghavan, and S. Barocas. Model Multiplicity: Opportunities, Concerns, and Solutions. In Proc. Fourth ACM Conference on Fairness, Accountability, and Transparency. June 2022
- 20. J. Kleinberg, S. Mullainathan, and M. Raghavan. The Challenge of Understanding What Users Want: Inconsistent Preferences and Engagement Optimization. In Proc. 23rd ACM Conference on Economics and Computation. July 2022

AWARDS AND HONORS

Regents' and Chancellor's Scholar, UC Berkeley	2012 - 2016
Outstanding Graduate Student Instructor, UC Berkeley	2015 - 2016
Hertz Foundation Fellowship Finalist	2016
Cornell University Fellowship Recipient	2016 - 2017
NSF GRFP Fellowship Recipient	2017 - 2021
Microsoft Research PhD Fellowship Recipient	2018 - 2020
SIGecom Doctoral Dissertation Award Honorable Mention	2021

INVITED TALKS AND WORKSHOPS

Social Impact through Network Science	June 8–10, 2016	
Venice, Italy. Planning Problems for Sophisticated Agents with Present Bias		
Fairness, Accountability, and Transparency in Machine Learning	November 18, 2016	
New York, New York. Inherent Trade-Offs in the Fair Determination of Risk Scores		
Young Researcher Workshop on Economics and Computation	January 1–5, 2017	
Tel Aviv, Israel. Planning Problems for Sophisticated Agents with Present Bias		
Workshop on Prioritising Online Content	December 9, 2017	
Long Beach, California. The Externalities of Exploration and How Data Diversity Help	os Exploitation	
Deloitte Data Scientist Speaker Series	September 7, 2018	
Virtual. Algorithmic Fairness and Bias		
Workshop on Workshop on Ethical, Social and Governance Issues in AI	December 7, 2018	
Montreal, Canada. How Do Classifiers Induce Agents To Invest Effort Strategically?		
Privacy Law Scholars Conference	May 30–31, 2019	
Berkeley, California. Formalism, Computing, and Social Change		
Learning in the Presence of Strategic Behavior	June 28, 2019	
Phoenix, Arizona. How Do Classifiers Induce Agents To Invest Effort Strategically?		
Mechanism Design for Social Good	June 28, 2019	
Phoenix, Arizona. Mitigating Bias in Algorithmic Hiring: Evaluating Claims and Prac	tices	
NeurIPS 2019 Workshop on Robust AI in Financial Services	December 13, 2019	
Vancouver, Canada. The Hidden Assumptions Behind Counterfactual Explanations and Principal Reasons		
Workshop on Human Interpretability in Machine Learning	July 17, 2020	
Virtual. The Hidden Assumptions Behind Counterfactual Explanations and Principal Reasons		
Workshop on Participatory Approaches to Machine Learning	July 17, 2020	
Virtual. The Hidden Assumptions Behind Counterfactual Explanations and Principal Reasons		
Workshop on Law & Machine Learning	July 17, 2020	
Virtual. Mitigating Bias in Algorithmic Hiring: Evaluating Claims and Practices		
AI for Social Good (AI4SG 2020)	July 20, 2020	
Virtual. Fairness and Discrimination in Mechanism Design and Machine Learning	• /	
Walmart Community of Practice	August 26, 2020	
Virtual. Algorithmic Fairness in Practice	<u> </u>	
Netflix Research Seminar	May 21, 2021	

Virtual. The Societal Impacts of Algorithmic Decision-Making Israel Algorithmic Game Theory Seminar Virtual. Understanding Societal Impacts through Machine Learning and Me	October 19, 2021 echanism Design: Automated Hir-
ing as a Case Study	
Workshop on Explainable AI in Finance	November $3, 2021$
Virtual. Explanations in Whose Interests?	
NYU Data Science Seminar	April 6, 2022
Virtual. The Challenge of Understanding What Users Want: Inconsistent	Preferences and Engagement Op-
timization	
Harvard EconCS Seminar	April 8, 2022
Virtual. The Challenge of Understanding What Users Want: Inconsistent	Preferences and Engagement Op-
timization	
Facebook Core Data Science Seminar	May 6, 2022
Virtual. The Challenge of Understanding What Users Want: Inconsistent	Preferences and Engagement Op-
timization	