EDUCATION Massachusetts Institute of Technology (MIT) 2018-2024 Ph.D., in Electrical Engineering and Computer Science CGPA: 5.00/5.00 Advisors: Prof. Devavrat Shah, Prof. Gregory W. Wornell, & Prof. Alberto Abadie Indian Institute of Technology, Bombay (IIT Bombay) 2014-2018 Bachelor of Technology in Electrical Engineering with Honors CGPA: 9.61/10.00 Minor in Computer Science RESEARCH INTERESTS Causal Inference, Statistical Inference, Algorithmic Fairness, Differential Privacy INTERNSHIP Google Research with Johannes Ballé, Lucas Theis, and Peter Kairouz Summer 2021 Experience IBM Research with Kush Varshney, Kartik Ahuja, Karthikeyan Shanmugam, Dennis Wei, and Amit Dhurandhar Summer 2020 Best Presentation, Laboratory of Information & Decision Systems (LIDS) Student Conference, MIT Selected Awards 2024 AND ACHIEVEMENTS Presidential Graduate Fellowship, MIT 2018-19 Undergraduate Research Award for exemplary contribution towards research, IIT Bombay 2017 Institute Academic Prize for excellent academic performance in the junior year, IIT Bombay 2017 Best Project for Social Cause at Technical, Research, and Development Exposition, IIT Bombay 2015 All India Rank 126 out of 1.4 million, IIT Joint Entrance Exam Advanced 2014 Bronze medal, 32nd Annual Mathematics Olympiad, IIT Bombay 2013 NEWS COVERAGE Research on "Fair selective regression" featured in MIT News article, "A technique to improve both fairness and accuracy in artificial intelligence" July 2022 **PRE-PRINTS** († denotes alphabetical ordering; title is hyperlinked to the online pdf of the paper) 1. Alberto Abadie[†], Anish Agarwal, Raaz Dwivedi, **Abhin Shah**, "Doubly Robust Inference in Causal Latent Factor Models", under review at ACM Conference on Economics and Computation (EC), full version in preparation for submission to Econometrica 2. Abhin Shah, Raaz Dwivedi, Devavrat Shah, Gregory W. Wornell "On counterfactual inference with unobserved confounding", NeurIPS 2022 Workshop on Causality for Real-world Impact (CML4Impact), full version under review at Operations Research 3. Abhin Shah, Devavrat Shah, Gregory W. Wornell, "On computationally efficient learning of exponential family distributions", under review at IEEE Transactions on Information Theory Selected (* denotes equal contribution; title is hyperlinked to the online pdf of the paper) 1. Abhin Shah, Maohao Shen, Jongha Jon Ryu, Subhro Das, Prasanna Sattigeri, Yuheng Bu, Gregory W. PUBLICATIONS Wornell, "Group fairness with uncertainty in sensitive attributes", IEEE International Symposium on Information Theory (ISIT), US Patent Application, 18/503166 2024 2. Abhin Shah, Karthikeyan Shanmugam, Murat Kocaoglu, "Front-door adjustment beyond Markov equivalence with limited graph knowledge", Conference on Neural Information Processing Systems (NeurIPS) 2023 3. Abhin Shah*, Yuheng Bu*, Joshua Ka-Wing Lee, Subhro Das, Rameswar Panda, Prasanna Sattigeri, Gregory W. Wornell, "Selective regression under fairness criteria", International Conference on Machine Learning (ICML), 🖓 link 2022

Abhin Shah

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| References | Devavrat Shah Professor of EECS, MIT Ph. D., Advisor ■ devavrat@mit.edu | GREGORY W. WORNELL Professor of EECS, MIT Ph.D., Advisor ☑ gww@mit.edu | Alberto Abadie Professor of Economics, MIT Ph.D., Advisor ■ abadie@mit.edu |