## **Keyon Vafa**

Columbia University

New York, NY

Department of Computer Science

Interests Machine Learning, Deep Generative Models, Computational Social Science, NLP Education **Columbia University** 2016 -Ph.D. Computer Science Advisor: David Blei **Columbia University** 2016 - 2018 M.S. Computer Science 2012 - 2016 **Harvard University** B.A. Computer Science and Statistics, magna cum laude Awards and National Science Foundation, Graduate Research Fellow (\$34,000/year) 2016 - 2019 **Fellowships** Columbia University Dean's Fellow (full graduate funding) 2016 -Elected to Phi Beta Kappa Society 2016 Awarded high honors for undergraduate thesis 2016 Bok Center Certificate of Distinction in Teaching 2015 John Harvard Scholar (grade point average in top 5% of class) 2013 - 2015 Work Software Engineer Intern, Google Brain 2018 - 2019 Experience Research Intern, Facebook Artificial Intelligence Research 2017 Data Science Intern (Places Team), Facebook 2015 2014 Software Engineer Intern (Data Science Infrastructure), Facebook Selected D. Tran, K. Vafa, K. Agrawal, L. Dinh, B. Poole. Discrete Flows: 2019 **Papers** Invertible Generative Models of Discrete Data, NeurIPS, to appear. D. Eckles, A. Peysakhovich, and K. Vafa. Deep neural networks for 2017 interpretable instrumental variable-based estimation of heterogeneous causal effects. Conference on Digital Experimentation, MIT. K. Vafa. Training Deep Gaussian Processes with Sampling, Advances in 2016 Approximate Bayesian Inference Workshop, NeurIPS. K. Vafa, C. Haigh, A. Leung, N. Yonack. Price Discrimination in The 2015 Princeton Review's Online SAT Tutoring Service, Journal of Technology Science.

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Selected Talks	<b>Text-Based Ideal Points</b> , <i>Text as Data Conference</i> , Stanford University. Joint work with Suresh Naidu and David Blei.	2019
	<b>Text-Based Ideal Points</b> , Caselaw Access Project Research Summit, Harvard Law School. Joint work with Suresh Naidu and David Blei.	2019
Teaching Experience	Department of Computer Science, Columbia University Teaching Assistant, Foundations of Graphical Models (graduate level) Professor: David Blei	2018
	Department of Computer Science, Harvard University Teaching Fellow, CS 281: Advanced Machine Learning (graduate level) Professor: Finale Doshi-Velez	2015
	Teaching Fellow, CS 181: Introduction to Machine Learning Professor: Ryan Adams	2015
Conference Reviewing	International Conference on Machine Learning Neural Information Processing Systems Advances in Approximate Bayesian Inference International Conference on Learning Representations	2017 - 2019 2017 - 2019 2017 - 2018 2017 - 2018
Press	Harvard Law Today blog post: Text-Based Ideal Points ProPublica article: Princeton Review Price Discrimination Today Show segment: Princeton Review Price Discrimination	
Languages and Skills	Python (+ PyTorch and TensorFlow), R (+ Stan), SQL, Java, PHP, Go English (native), French (advanced), Farsi (proficient) Long distance running (ran 2016 Boston Marathon)	