

Keyon Vafa

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Interests	Machine Learning, Deep Generative Models, Computational Social Science, NLP	
Education	Columbia University Ph.D. Computer Science Advisor: David Blei	2016 -
	Columbia University M.S. Computer Science	2016 - 2018
	Harvard University B.A. Computer Science and Statistics, <i>magna cum laude</i>	2012 - 2016
Awards and Fellowships	National Science Foundation, Graduate Research Fellow (\$34,000/year)	2016 - 2019
	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 Experience	Software Engineer Intern, Google Brain	2018 - 2019
	Research Intern, Facebook Artificial Intelligence Research	2017
	Data Science Intern (Places Team), Facebook	2015
	Software Engineer Intern (Data Science Infrastructure), Facebook	2014
Selected Papers	D. Tran, K. Vafa , K. Agrawal, L. Dinh, B. Poole. Discrete Flows: Invertible Generative Models of Discrete Data , <i>NeurIPS</i> , to appear.	2019
	D. Eckles, A. Peysakhovich, and K. Vafa . Deep neural networks for interpretable instrumental variable-based estimation of heterogeneous causal effects. <i>Conference on Digital Experimentation</i> , MIT.	2017
	K. Vafa . Training Deep Gaussian Processes with Sampling , <i>Advances in Approximate Bayesian Inference Workshop</i> , NeurIPS.	2016
	K. Vafa , C. Haigh, A. Leung, N. Yonack. Price Discrimination in The Princeton Review's Online SAT Tutoring Service , <i>Journal of Technology Science</i> .	2015

Selected Talks	Text-Based Ideal Points , <i>Text as Data</i> , Stanford University. Joint work with Suresh Naidu and David Blei.	2019
	Text-Based Ideal Points , <i>Caselaw Access Project Research Summit</i> , 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	2017 - 2019
	Neural Information Processing Systems	2017 - 2019
	Advances in Approximate Bayesian Inference	2017 - 2018
	International Conference on Learning Representations	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)	