

Keyon Vafa

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Education	Columbia University Ph.D. Computer Science Advisor: David Blei	2017 -
	Columbia University M.S. Computer Science	2017 - 2018
	Harvard University B.A. Computer Science and Statistics, <i>magna cum laude</i>	2012 - 2016
Awards and Fellowships	Cheung-Kong Innovation Doctoral Fellowship	2020 - 2022
	Columbia University Nominee for Google PhD Fellowship	2019
	National Science Foundation, Graduate Research Fellowship	2016 - 2019
	Columbia University Dean's Fellowship	2016 -
	Elected to Phi Beta Kappa Society	2016
	Bok Center Certificate of Distinction in Teaching	2015
John Harvard Scholar (grade point average in top 5% of class)	2013 - 2015	
Selected Papers	K. Vafa , E. Palikot, T. Du, A. Kanodia, S. Athey, D. Blei. CAREER: Economic prediction of labor sequence data under distribution shift. <i>NeurIPS Workshop on Distribution Shifts</i> . Selected for spotlight presentation (among 8% of accepted papers).	2022
	K. Vafa , S. Athey, D. Blei. Adjusting the gender wage gap with a low-dimensional representation of job history. <i>NeurIPS Workshop on Algorithmic Fairness through the Lens of Causality and Privacy</i> .	2022
	C. Shi, C. Zheng, K. Vafa , A. Feder, D. Blei. An invariant learning characterization of controlled text generation. <i>NeurIPS Workshop on Robustness in Sequence Modeling</i> . Selected for spotlight presentation.	2022
	K. Vafa , Y. Deng, D. Blei, A. Rush. Rationales for sequential predictions. <i>Proceedings of EMNLP</i> . Selected for oral presentation.	2021
	A. Schein, K. Vafa , D. Sridhar, V. Veitch, J. Moffet, J. Quinn, N. Makiya, D. Blei, Donald Green. A digital field experiment reveals large effects of friend-to-friend texting on voter turnout. <i>The Web Conference (WWW)</i> .	2021

	K. Vafa , S. Naidu, D. Blei. Text-based ideal points . <i>Proceedings of ACL</i> . 2020	
	D. Tran, K. Vafa , K. Agrawal, L. Dinh, B. Poole. Discrete flows: Invertible generative models of discrete data . <i>Proceedings of NeurIPS</i> . 2019	
	K. Vafa . Training deep Gaussian processes with sampling . <i>NeurIPS Workshop on Advances in Approximate Bayesian Inference Workshop</i> . 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	Learning a Low-Dimensional Representation of Job History for Economic Adjustment, Federal Committee on Statistical Methodology Conference . 2022	
	Learning Transferrable Representations of Career Trajectories for Economic Prediction (invited talk), ETH Zurich 2022	
	Rationales for Sequential Predictions (invited talk), Google AI NLP Reading Group. 2021	
	Rationales for Sequential Predictions (invited talk), Hugging Face . 2021	
	Rationales for Sequential Predictions (oral), EMNLP Conference. 2021	
	Text-Based Ideal Points, CFE-CMStatistics Conference , London 2021	
	Text-Based Ideal Points (invited talk), Milstein Program Summer Speaker Series . Cornell Tech. 2020	
	Text-Based Ideal Points, Text as Data Conference , Stanford University. 2019	
	Text-Based Ideal Points, <i>Caselaw Access Project Research Summit</i> , Harvard Law School. 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 -
	Neural Information Processing Systems	2017 -
	Advances in Approximate Bayesian Inference	2017 -
	International Conference on Learning Representations	2018 - 2021
	I Can't Believe It's Not Better Workshop	2020 -
	Association for Computational Linguistics	2021
	ACL Rolling Review	2021 -
Reviewer Recognition	Top 33% Reviewer for ICML	2020
	Top 10% Reviewer for NeurIPS	2020
	ICML Expert Reviewer	2021
	ICLR Reviewer Award	2021
Other Volunteering	Machine Learning in New York City Speaker Series , Organizer Co-organizer of ML-NYC , a monthly speaker series featuring New York-based machine learning academics and researchers.	2022 -
	GetUsPPE , Data Scientist Volunteered as a data scientist for GetUsPPE , an organization formed to distribute personal protective equipment during the COVID-19 pandemic.	2020
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
Press	Harvard Law Today blog post : Text-based ideal points ProPublica article : Princeton Review price discrimination Today Show segment : Princeton Review price discrimination	