## **Keyon Vafa**

Columbia University

New York, NY

Department of Statistics

Interests Machine Learning, Data Science, Approximate Bayesian Inference Education **Columbia University** 2016 -Ph.D. Statistics Advisor: David Blei **Harvard University** 2012 - 2016 B.A. (honors) Computer Science and Statistics Awards and National Science Foundation, Graduate Research Fellow (\$34,000/year) 2016 - 2019 **Fellowships** Columbia University Dean's Fellow (full graduate funding) 2016 -Graduated from Harvard magna cum laude 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 Research Training and Inference for Deep Gaussian Processes 2016 Experience Supervised by Alexander Rush

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Proposed the Deep Gaussian Process Sampling algorithm, an approximate inference method for deep Gaussian Processes (a regression model that combines Gaussian processes with deep architectures) as part of undergraduate thesis.

## Price Discrimination in The Princeton Review's Online SAT Tutor- 2015 ing Service

Supervised by Latanya Sweeney

Uncovered evidence of geographic-based price discrimination for Princeton Review's online tutoring service. Published in Journal of Technology Science, presented to Federal Trade Commission in Washington D.C., and featured in Propublica and on the Today Show on NBC.

	Predicting Restaurant Hygiene with Yelp Supervised by Michael Luca	2014 - 2015
	Explored using Support Vector Machines and Supervised LDA as methods to predict health inspection scores for restaurants in San Francisco using the text of Yelp reviews.	
Work Experience	Data Science Intern, Facebook  Queried data with Apache Hive and Presto to model Facebook traveling patterns, city categorizations, and tourist engagement levels.	2015
	<b>Software Engineering Intern, Facebook</b> As member of Data Science Infrastructure team, created dashboards with relevant statistics for data scientists and implemented historical experiment repository.	2014
Teaching Experience	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
Selected Posters	<b>Training Deep Gaussian Processes with Sampling</b> , NIPS Advances in Approximate Bayesian Inference Workshop, Barcelona, Spain.	2016
Languages and Skills	Python, R, Stan, SQL, Java, PHP English (native), French (advanced), Farsi (proficient) Long distance running (ran 2016 Boston Marathon)	