

Hari Bandi

Contact Information	Operations Research Center Massachusetts Institute of Technology 77 Massachusetts Avenue, E40-130 Cambridge, MA 02139	550 Memorial Drive, Apt 23C Cambridge, MA 02139 Phone: (617) 372-3894 Email: hbandi@mit.edu
Education	Massachusetts Institute of Technology , Cambridge MA <i>Candidate for PhD in Operations Research</i> Advisor: Dimitris Bertsimas	Sept 2016 – present
	Indian Institute of Technology Kharagpur , India <i>Integrated Masters in Mathematics and Computer Science with a minor in Economics.</i>	August 2011 – May 2016
Scholastic Achievements	Honorable mention in INFORMS Undergraduate OR prize competition. Awarded Institute Silver medal at IIT Kharagpur for securing the highest GPA among the graduating class. Prof. J.C. Ghosh Memorial prize for securing highest Cumulative GPA in the class at the end of 6 th semester. KVPY Fellowship (Kishore Vaigyanik Protsahan Yojna) award from Department of Science and Technology, Government of India for the year 2011-2016 to pursue undergraduate studies (Stream SB). KVPY Fellowship (Kishore Vaigyanik Protsahan Yojna) award from Department of Science and Technology, Government of India for the year 2010-2011 (Stream SX). INSPIRE Scholarship (Innovation in Science Pursuit for Inspired Research) award from Department of Science and Technology, Govt. of India 2011-2016 (Declined).	
Work Experience	Nference Inc , Cambridge, MA <i>Research Scientist</i> Working on multiple projects related to COVID-19 pandemic.	Summer 2020
	IBM T.J Watson Research Center , New York, NY <i>Research intern</i> , Business Analytics and Mathematical Sciences Worked on a dynamic pricing problem for American Airlines using demand forecasting and consumer choice models.	Summer 2016
	Columbia University , New York, NY <i>Intern</i> , Industrial Engineering and Operations Research Worked on developing novel fast algorithms for solving robust regression problems by leveraging connections with regularized linear regression problems.	Summer 2015
	Google , Hyderabad, India <i>Intern</i> , Google AI Worked on modeling natural language by understanding how conversations move from topic to topic and how dialog acts play a crucial role in predicting the structure of next utterance in a conversation.	Summer 2014
Teaching Experience	Massachusetts Institute of Technology , Cambridge, MA <i>Teaching Assistant</i> for the course: Analytics Edge (MBA Core)	Spring 2020
	Massachusetts Institute of Technology , Cambridge, MA <i>Teaching Assistant</i> for the course: Analytics Edge (Master of Business Analytics Core)	Spring 2019
	Massachusetts Institute of Technology , Cambridge, MA <i>Teaching Assistant</i> for the course: Data, Models and Decisions (MBA Core)	Fall 2017
	Massachusetts Institute of Technology , Cambridge, MA	Spring 2016

Teaching Assistant for Analytics Capstone Project (Master of Business Analytics Core)

Publications

“Exploratory analysis of immunization records highlights decreased SARS-CoV-2 rates in individuals with recent non-COVID-19 vaccinations”, submitted.

“Optimizing Influenza Vaccine Composition: A Machine Learning Approach”, D. Bertsimas, to appear in *Proceedings of Machine Learning Research*.

“Learning a Mixture of Gaussians via Mixed Integer Optimization”, D. Bertsimas and R. Mazumder, *INFORMS Journal on Optimization*, 2018.

“Robust Learning of Multivariate Gaussians and Mixtures: A Computational Discrete Optimization Approach”, R. Mazumder, under review.

“An Algorithmic Perspective on Regression Function Estimation with Smoothness and Shape Constraints”, R. Mazumder, submitted.

“Statistical Hypothesis Testing via Robust Optimization”, D. Bertsimas and R. Mazumder, submitted.

“Regularized Linear Regression via Robust Optimization Lens”, V. Goyal and G. Iyengar, working paper.

Technical Skills

Languages: C/C++, Python, Julia and SQL.

Scientific Computing: R, IPython, Matlab.

Technologies: TensorFlow, Map-Reduce, Borg, Wordpress and Django.