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 — **Sept 2016 – present**

Candidate for PhD in Operations Research

Advisor: Dimitris Bertsimas

GPA 4.9/5.0

Indian Institute of Technology Kharagpur, India — **August 2011 – May 2016**

Integrated Masters in Mathematics and Computer Science with a minor in Economics.

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 6th 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

Research Scientist — **Summer 2020**

Working on multiple projects related to COVID-19 pandemic.

IBM T.J Watson Research Center, New York, NY

Research intern, Business Analytics and Mathematical Sciences — **Summer 2016**

Worked on a dynamic pricing problem for American Airlines using demand forecasting and consumer choice models.

Columbia University, New York, NY

Intern, Industrial Engineering and Operations Research — **Summer 2015**

Worked on developing novel fast algorithms for solving robust regression problems by leveraging connections with regularized linear regression problems.

Google, Hyderabad, India

Intern, Google AI — **Summer 2014**

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.

Teaching Experience

Massachusetts Institute of Technology, Cambridge, MA — **Spring 2020**

Teaching Assistant for the course: Analytics Edge (MBA Core)

Massachusetts Institute of Technology, Cambridge, MA — **Spring 2019**

Teaching Assistant for the course: Analytics Edge (Master of Business Analytics Core)

Massachusetts Institute of Technology, Cambridge, MA — **Fall 2017**

Teaching Assistant for the course: Data, Models and Decisions (MBA Core)

Massachusetts Institute of Technology, Cambridge, MA   **Spring 2016**
Teaching Assistant for Analytics Capstone Project (Master of Business Analytics Core)

Publications   "*Optimizing Influenza Vaccine Composition: A Machine Learning Approach*", D. Bertsimas, submitted.

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

"*Robust Learning of Multivariate Gaussians and Mixtures: A Computational Discrete Optimization Approach*", with 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   *Languages:* C/C++, Python, Julia and SQL.
Skills   *Scientific Computing:* R, IPython, Matlab.
                     Technologies: TensorFlow, Map-Reduce, Borg, Wordpress and Django.