Hari Bandi

CONTACT
INFORMATION

Operations Research Center
Massachusetts Institute of Technology
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EDUCATION

Massachusetts Institute of Technology, Cambridge MA   2016-present

Sloan School of Management - Operations Research Center

Candidate for Ph.D in Operations Research

Advisor: Dimitris Bertsimas

Indian Institute of Technology Kharagpur, India   2011-2016

Integrated Masters in Mathematics and Computer Science
Minor in Economics

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

Mentor: Pavithra Harsha, Markus Ettl
Worked on a dynamic pricing problem for American Airlines using demand forecasting and consumer choice models.

Columbia University, New York, NY

Research Intern, Industrial Engineering and Operations Research   Summer 2015

Mentor: Garud Iyengar, Vineet Goyal
Worked on developing novel fast algorithms for solving robust regression problems by leveraging connections with regularized linear regression problems.

Google, Hyderabad, India

Software Engineering Intern, Google AI   Summer 2014

Mentor: Shailesh Kumar
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.

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: From Predictions to Prescriptions", 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, submitted.

"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, in preparation.

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

HONORS AND AWARDS	Finalist in INFORMS Undergraduate OR award.
	Award for Institute Silver medal at IIT Kharagpur.
	Award for Academic Excellence at IIT Kharagpur.
	Award for KVPY Fellowship from Department of Science and Technology, Govt. of India.
	Award for INSPIRE Scholarship from Department of Science and Technology, Govt. of India.

TEACHING EXPERIENCE	**Massachusetts Institute of Technology**
	Teaching Assistant

- 15.071 Analytics Edge (MBA Core), Spring 2020.
- 15.071 Analytics Edge (Advanced, MBAn Core), Spring 2019.
- 15.060 Data, Models and Decisions (MBA Core), Fall 2017.
- 15.089 Analytics Capstone Project (MBAn Core), Spring 2017.

TECHNICAL SKILLS	*Languages:* Python, Julia, C++, R and SQL.
	Technologies: TensorFlow, Map-Reduce and Borg.