Hamsa Bastani

IBM Thomas J. Watson Research
Math for AI Group

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Employment

Herman Goldstine Postdoctoral Fellow, IBM Research
Math for AI, 2017-2018

Assistant Professor, Wharton School, University of Pennsylvania
Operations, Information & Decisions (OID), 2018 –

Education

Stanford University
Ph.D., Electrical Engineering, 2012-2017

Harvard University
A.M. in Physics, 2011-2012
A.B. *summa cum laude* in Physics and Mathematics, 2008-2012

Research

Predicting with Proxies
Working paper

Interpreting Predictive Models for Human-in-the-Loop Analytics
(with Osbert Bastani and Carolyn Kim)
Previously titled *Interpreting Blackbox Models via Model Extraction*
Preliminary version in FATML Workshop (2017)

Mostly Exploration-Free Algorithms for Contextual Bandits
(with Mohsen Bayati and Khashayar Khosravi)
Working paper

Online Decision-Making with High-Dimensional Covariates
(with Mohsen Bayati)
1st Place, Pierskalla Award for Best Paper in Healthcare (2016)
1st Place, George Nicholson Student Paper Competition (2016)
1st Place, MSOM Student Paper Competition (2016)
1st Place, IBM Service Science Best Student Paper Award (2016)
Working paper

Analysis of Medicare Pay-for-Performance Contracts
(with Mohsen Bayati, Mark Braverman, Ramki Gummadi and Ramesh Johari)
Preliminary version in Mechanism Design for Social Good Workshop (2017)
Working paper

Evidence of Upcoding in Pay-for-Performance Programs
(with Joel Goh and Mohsen Bayati)
1st Place, Health Applications Society Best Student Paper Award (2015)
Accepted in ***Management Science***

Teaching

Wharton OID, University of Pennsylvania
Instructor, Introduction to Management Science (OIDD 321), 2018

Graduate School of Business, Stanford University
TA, Business Intelligence from Big Data (OIT 367), 2016
TA, Data for Action (OIT 536), 2015

Harvard College
TA, Quantum Mechanics (Phys 143a), 2011
TA, Linear Algebra & Real Analysis (Math 25), 2009-2010

Invited Talks

Data Science Lab, MIT IDSS, December 2017
Judge Business School, University of Cambridge, July 2017
IBM Research, June 2017
Stanford-Berkeley Health Economics Workshop, February 2017
Cornell Tech, March 2017
Anderson School of Management, UCLA, February 2017
Fuqua School of Business, Duke, February 2017
Marshall School of Business, USC, February 2017
Northwestern IEMS, February 2017
Yale School of Management, February 2017
Harvard Business School, January 2017
Columbia IEOR / DRO, January 2017
Ross School of Business, University of Michigan, January 2017
INSEAD, January 2017
Kellogg School of Management, Northwestern, January 2017
Krannert School of Management, Purdue, January 2017
Booth School of Business, University of Chicago, January 2017
Cornell ORIE, December 2016
Wharton, University of Pennsylvania, December 2016
Kelley School of Business, Indiana University, December 2016
London Business School, December 2016
Katz School of Business, University of Pittsburgh, December 2016
MIT Sloan, November 2016
Stanford Biostatistics Workshop, October 2016
Med-X Conference, Stanford Medical School, September 2016
Healthcare SIG, MSOM Conference, July 2016
Cornell ORIE, December 2015
Cornell ORIE Young Scholars Workshop, October 2015
Wharton Workshop for Empirical Research in OM, September 2014

Awards and Fellowships

1st Place, Pierskalla Award for Best Paper in Healthcare, 2016
1st Place, George Nicholson Student Paper Competition, 2016
1st Place, MSOM Student Paper Competition, 2016
1st Place, IBM Service Science Best Student Paper Award, 2016
1st Place, Health Applications Society Best Student Paper Award, 2015
National Science Foundation Fellow, 2012-2017
Stanford Department Fellowship in Electrical Engineering, 2012-2013
Intel Science Talent Search Finalist, 2008

Professional Service

Program Committee Member, Mechanism Design for Social Good Workshop, 2018
Speaker, MIT ORC IAP Seminar on OR for Social Impact, 2018
Judge, Service Science Best Cluster Paper Award, 2017
Co-Chair, Pierskalla Award for Best Paper in Healthcare, 2017
Speaker, CMU YinzOR Student Conference, 2017
Reviewer for *Management Science*, *Operations Research*, and *M&SOM*

Languages and Skills

English (native), Tamil (advanced), French (beginner)
R, Stata, LaTeX, Matlab