

Hamsa Bastani

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

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

Education **Stanford University**
Ph.D. in Electrical Engineering, 2012-2017

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

Research Interests Theory: transfer learning, bandits, high-dimensional statistics
Applications: healthcare, revenue management, sustainability

Working Papers **Do Policies with Limited Enforcement Reduce Harm? Evidence from Transshipment Bans**
(with Joann de Zegher)
Preliminary version in Early-Career Sustainable OM Workshop (2019)

Predicting with Proxies
Preliminary version in IMA Data-Driven Supply Chain Mgmt Workshop (2018)

Sequential Learning of Product Recommendations with Customer Disengagement
(with Pavithra Harsha, Georgia Perakis and Divya Singhvi)

Interpreting Predictive Models for Human-in-the-Loop Analytics
(with Osbert Bastani and Carolyn Kim)
Finalist, Pierskalla Award for Best Paper in Healthcare (2018)
Preliminary version in KDD FATML Workshop (2017)

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

Analysis of Medicare Pay-for-Performance Contracts

(with Mohsen Bayati, Mark Braverman, Ramki Gummadi and Ramesh Johari)
Preliminary version in EC Mechanism Design for Social Good Workshop (2017)

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)

Published
Papers

Evidence of Upcoding in Pay-for-Performance Programs

(with Joel Goh and Mohsen Bayati)

1st Place, Health Applications Society Best Student Paper Award (2015)

Forthcoming in *Management Science*

Other
Publications

Exploring the Causal Relationships between Initial Opioid Prescriptions and Outcomes

(with J. Zhang, V. Iyengar, D. Wei, B. Vinzamuri, A. Macalalad, A. Fischer, G. Yuen-Reed, A. Mojsilović, and K. Varshney)

AMIA Workshop on Data Mining for Medical Informatics (2017)

Multiplex coherent anti-Stokes Raman scattering (MCARS) for chemically sensitive, label-free flow cytometry

(with C. Camp, S. Yegnanarayanan, A. Eftekhari, and A. Adibi)

Optics Express (2009)

Creating Optical Vortex Modes with a Single Cylinder Lens

(with M. Cohen and J. Noe)

Proceedings of *SPIE* (2010)

Students

Arielle Anderer, Wharton (advisor)

Pia Ramchandani, Wharton (advisor)

Khashayar Khosravi, Stanford (co-author, advised by M. Bayati)

Divya Singhvi, MIT (co-author, advised by G. Perakis)

Ruihao Zhu, MIT (co-author, advised by D. Simchi-Levi)

Teaching

Wharton OIDD, 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

IMA Data-Driven Supply Chain Mgmt (Applied) Workshop, December 2018
IMA Data-Driven Supply Chain Mgmt (Theory) Workshop, October 2018
Warren Center for Network & Data Sciences, U Penn, October 2018
IBM Research Math for AI Seminar, June 2018
IDinsight, May 2018
Data Science Lab, MIT IDSS, December 2017
Judge Business School, University of Cambridge, July 2017
IBM Research Applied Probability Seminar, June 2017
Cornell Tech, March 2017
Stanford-Berkeley Health Economics Workshop, February 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 Graduate School of Business, 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

Finalist, Pierskalla Award for Best Paper in Healthcare, 2018
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, EC Mechanism Design for Social Good Workshop, 2018
Program Committee, KDD ML for Medicine & Healthcare Workshop, 2018
Judge, Healthcare SIG in MSOM Conference, 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*, 2017–
Meritorious Service Award for *Management Science*, 2018

Languages and Skills

English (native), Tamil (native), French (beginner)
R, Stata, L^AT_EX, Matlab