

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

Working Papers **Adaptive Clinical Trial Designs with Surrogates: When Should We Bother?**
(with Arielle Anderer and John Silberholz)

Meta Dynamic Pricing: Learning Across Experiments
(with David Simchi-Levi and Ruihao Zhu)
Spotlighted presentation in INFORMS RM&P Conference (2019)
Major Revision, Management Science

Do Policies with Limited Enforcement Reduce Harm? Evidence from Transshipment Bans
(with Joann de Zegher)
People's Choice Award, Early-Career Sustainable OM Workshop (2019)
Preliminary version in MSOM Sustainable SIG (2019)
Major Revision, Management Science

Predicting with Proxies
Preliminary version in IMA Data-Driven Supply Chain Mgmt Workshop (2018)
Major Revision, Management Science

Learning Personalized Product Recommendations with Customer Disengagement
(with Pavithra Harsha, Georgia Perakis and Divya Singhvi)
Honorable Mention, POMS Best Student Paper in Supply Chain (D. Singhvi, 2019)

	<p>Interpreting Predictive Models for Human-in-the-Loop Analytics (with Osbert Bastani and Carolyn Kim) <i>Finalist</i>, Pierskalla Award for Best Paper in Healthcare (2018) Preliminary version in FATML Workshop (2017), MSOM Healthcare SIG (2019)</p>
	<p>Mostly Exploration-Free Algorithms for Contextual Bandits (with Mohsen Bayati and Khashayar Khosravi) <i>Major Revision</i>, <i>Management Science</i></p>
	<p>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)</p>
Published Papers	<p>Online Decision-Making with High-Dimensional Covariates (with Mohsen Bayati) <i>1st Place</i>, Pierskalla Award for Best Paper in Healthcare (2016) <i>1st Place</i>, George Nicholson Student Paper Competition (2016) <i>1st Place</i>, MSOM Student Paper Competition (2016) <i>1st Place</i>, IBM Service Science Best Student Paper Award (2016) Accepted in <i>Operations Research</i></p>
	<p>Evidence of Upcoding in Pay-for-Performance Programs (with Joel Goh and Mohsen Bayati) <i>1st Place</i>, Health Applications Society Best Student Paper Award (2015) <i>Management Science</i> (2018)</p>
Other Publications	<p>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)</p>
	<p>Multiplex coherent anti-Stokes Raman scattering (MCARS) for chemically sensitive, label-free flow cytometry (with C. Camp, S. Yegnanarayanan, A. Eftekhari, and A. Adibi) <i>Optics Express</i> (2009)</p>
	<p>Creating Optical Vortex Modes with a Single Cylinder Lens (with M. Cohen and J. Noe) Proceedings of <i>SPIE</i> (2010)</p>
Students	<p>Arielle Anderer, Wharton OID Pia Ramchandani, Wharton OID Kan Xu, Penn Econ</p>

Khashayar Khosravi, Stanford EE (co-author, advised by M. Bayati)
Park Sinchaisri, Wharton OID (co-author, advised by G. Allon)
Divya Singhvi, MIT ORC (co-author, advised by G. Perakis)
Ruihao Zhu, MIT IDSS (co-author, advised by D. Simchi-Levi)

Teaching

Wharton OID, University of Pennsylvania

Instructor, Introduction to Management Science (OIDD 321), 2018-2019

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

MIT IDSS Data Science Lab, November 2019
UC Irvine Algorithms, Combinatorics & Optimization Center, October 2019
Wharton Empirical Research in OM Workshop, September 2019
Information & Learning Workshop, IESE, September 2019
ISOM Workshop, Goizueta Business School, Emory, August 2019
Healthcare SIG, MSOM Conference, June 2019
Healthcare & Service Operations Workshop, CUHK Shenzhen, June 2019
Naveen Jindal School of Management, UT Dallas, May 2019
Wharton OID, April 2019
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, June 2018
IDinsight, May 2018
MIT ORC IAP Seminar on OR for Social Impact, January 2018
MIT IDSS Data Science Lab, 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
 Chicago Booth OM, January 2017
 Cornell ORIE, December 2016
 Wharton OIR, 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 OM, November 2016
 Stanford GSB OIR, November 2016
 Biostatistics Workshop, Stanford, 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 Empirical Research in OM Workshop, September 2014

Awards

People's Choice Award, Early-Career Sustainable OM Workshop, 2019
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, AAAI Conference on Artificial Intelligence, 2020
 Judge, Elwood S. Buffa Doctoral Dissertation Award, 2019
 Area Chair, Mechanism Design for Social Good Workshop, 2019
 Committee Member, George Nicholson Student Paper Competition, 2019-2020
 Judge, MSOM Student Paper Competition, 2019
 Committee Member, Revenue Management & Pricing Conference, 2019
 Judge, Healthcare Applications Society Student Paper Competition, 2019
 Program Committee, EC Mechanism Design for Social Good Workshop, 2018
 Judge, Healthcare SIG in MSOM Conference, 2018-2019
 Meritorious Service Award for *Management Science*, 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*, *M&SOM*, *Journal of the Royal Statistical Society: Series B*, and *Annals of Statistics*

Languages

English (native), Tamil (native), French (beginner)

and Skills

R, Stata, L^AT_EX, Matlab