

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 **Can Zero-Tolerance Policies Reduce Harm in Supply Chains?**
Evidence from Transshipment Bans
(with Joann de Zegher)

Predicting with Proxies

Learning 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 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 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)

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| | <p><i>1st Place</i>, George Nicholson Student Paper Competition (2016)</p> <p><i>1st Place</i>, MSOM Student Paper Competition (2016)</p> <p><i>1st Place</i>, IBM Service Science Best Student Paper Award (2016)</p> |
| Published Papers | <p>Evidence of Upcoding in Pay-for-Performance Programs (with Joel Goh and Mohsen Bayati)</p> <p><i>1st Place</i>, Health Applications Society Best Student Paper Award (2015)</p> <p>Forthcoming in <i>Management Science</i></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)</p> <p>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)</p> <p><i>Optics Express</i> (2009)</p> <p>Creating Optical Vortex Modes with a Single Cylinder Lens (with M. Cohen and J. Noe)</p> <p>Proceedings of <i>SPIE</i> (2010)</p> |
| Students | <p>Arielle Anderer, Wharton (advisor)</p> <p>Pia Ramchandani, Wharton (advisor)</p> <p>Khashayar Khosravi, Stanford (co-author, advised by M. Bayati)</p> <p>Divya Singhvi, MIT (co-author, advised by G. Perakis)</p> <p>Ruihao Zhu, MIT (co-author, advised by D. Simchi-Levi)</p> |
| Teaching | <p>Wharton OIDD, University of Pennsylvania Instructor, Introduction to Management Science (OIDD 321), 2018</p> <p>Graduate School of Business, Stanford University TA, Business Intelligence from Big Data (OIT 367), 2016 TA, Data for Action (OIT 536), 2015</p> <p>Harvard College TA, Quantum Mechanics (Phys 143a), 2011 TA, Linear Algebra & Real Analysis (Math 25), 2009-2010</p> |
| Invited Talks | <p>IMA Data-Driven Supply Chain Management Workshop, October 2018</p> <p>Warren Center for Network & Data Sciences, U Penn, October 2018</p> <p>IBM Research Math for AI Seminar, June 2018</p> <p>IDinsight, May 2018</p> |

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 and Fellowships

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–

Languages and Skills

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