

# Hamsa Bastani

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Wharton School, University of Pennsylvania  
Operations, Information & Decisions (OID) Group  
557 Jon M. Huntsman Hall

hamsab@wharton.upenn.edu  
hamsabastani.github.io  
(215) 573-5365

**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 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)

**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 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) <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)
Published Papers	<b>Evidence of Upcoding in Pay-for-Performance Programs</b> (with Joel Goh and Mohsen Bayati) <i>1st Place</i> , Health Applications Society Best Student Paper Award (2015) Forthcoming in <i>Management Science</i>
Other Publications	<b>Exploring the Causal Relationships between Initial Opioid Prescriptions and Outcomes</b> (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)  <b>Multiplex coherent anti-Stokes Raman scattering (MCARS) for chemically sensitive, label-free flow cytometry</b> (with C. Camp, S. Yegnanarayanan, A. Eftekhari, and A. Adibi) <i>Optics Express</i> (2009)  <b>Creating Optical Vortex Modes with a Single Cylinder Lens</b> (with M. Cohen and J. Noe) Proceedings of <i>SPIE</i> (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	<b>Wharton OIDD, University of Pennsylvania</b> Instructor, Introduction to Management Science (OIDD 321), 2018  <b>Graduate School of Business, Stanford University</b> TA, Business Intelligence from Big Data (OIT 367), 2016 TA, Data for Action (OIT 536), 2015  <b>Harvard College</b> TA, Quantum Mechanics (Phys 143a), 2011 TA, Linear Algebra & Real Analysis (Math 25), 2009-2010
Invited Talks	IMA Data-Driven Supply Chain Management 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 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,  $\text{\LaTeX}$ , Matlab