

# Hamsa Bastani

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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)

**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)

**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)

**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), MSOM Healthcare SIG (2019)

**Mostly Exploration-Free Algorithms for Contextual Bandits**  
(with Mohsen Bayati and Khashayar Khosravi)  
*Major Revision*, *Management Science*

**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)

## Published Papers

**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)  
Accepted in *Operations Research*

**Evidence of Upcoding in Pay-for-Performance Programs**  
(with Joel Goh and Mohsen Bayati)  
*1st Place*, Health Applications Society Best Student Paper Award (2015)  
*Management Science* (2018)

## 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 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

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

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

MIT ORC IAP Seminar on OR for Social Impact, January 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**      *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**      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 and Skills**      English (native), Tamil (native), French (beginner)  
R, Stata, L<sup>A</sup>T<sub>E</sub>X, Matlab