

# 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)  
*1st Place, Pierskalla Award for Best Paper in Healthcare (2019)*  
*Major Revision, Management Science*

**Meta Dynamic Pricing: Learning Across Experiments**  
(with David Simchi-Levi and Ruihao Zhu)  
*Major Revision, Management Science*

**Are Bans Effective despite Limited Enforcement? Evidence from the High Seas**  
(with Joann de Zegher)  
*People's Choice Award, Early-Career Sustainable OM Workshop (2019)*  
*Major Revision, Management Science*

**Predicting with Proxies: Transfer Learning in High Dimension**  
*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)*  
*Major Revision, M&SOM*

	<p><b>Interpreting Predictive Models for Human-in-the-Loop Analytics</b>  (with Osbert Bastani and Carolyn Kim)  <i>Finalist</i>, Pierskalla Award for Best Paper in Healthcare (2018)  Preliminary version in FATML Workshop (2017)</p>
	<p><b>Mostly Exploration-Free Algorithms for Contextual Bandits</b>  (with Mohsen Bayati and Khashayar Khosravi)  <i>Major Revision</i>, <i>Management Science</i></p>
	<p><b>Analysis of Medicare Pay-for-Performance Contracts</b>  (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><b>Online Decision-Making with High-Dimensional Covariates</b>  (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><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)  <i>Management Science</i> (2018)</p>
Other Publications	<p><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)</p>
	<p><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)</p>
	<p><b>Creating Optical Vortex Modes with a Single Cylinder Lens</b>  (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

Utah Operations Conference, February 2020  
Chicago Booth OM seminar, February 2020  
MIT IDSS Data Science Lab, November 2019  
NYU Stern OM seminar, November 2019  
UC Irvine Operations & Decision Technologies, October 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

*1st Place*, Pierskalla Award for Best Paper in Healthcare, 2019  
*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, EC Conference, 2020  
 Program Committee, AAAI Conference on Artificial Intelligence, 2020  
 Wharton Dean's Advisory Council, 2019-2020  
 Judge, POMS Best Healthcare Ops Mgmt Paper Award, 2019  
 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 and Skills

English (native), Tamil (native), French (beginner)  
R, Stata, L<sup>A</sup>T<sub>E</sub>X, Matlab