

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)
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)
2nd Place, Service Science Best Paper Award (2019)
Hon. Mention, POMS Best Student Paper in Supply Chain (D. Singhvi, 2019)
Major Revision, *M&SOM*

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)
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 OID
Pia Ramchandani, Wharton OID
Kan Xu, Penn Econ
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 OI, 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 OI, 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
2nd Place, Service Science Best Paper Award, 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^AT_EX, Matlab