Hamsa Bastani

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Operations, Information & Decisions (OID) Group
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Academic Position	**Assistant Professor, Wharton School, University of Pennsylvania**
	Operations, Information & Decisions (OID), 2018 – present
	  - *Affiliate*, Warren Center for Networks & Data Sciences
	  - *Affiliate*, Penn Research in Machine Learning
	  - *Affiliate*, Analytics at Wharton & Wharton AI for Business
	  - *Senior Fellow*, Leonard Davis Institute for Health Economics
	
	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

Journal Papers	**Adaptive Clinical Trial Designs with Surrogates: When Should We Bother?** A. Anderer, H. Bastani and J. Silberholz
	Minor Revision, ***Management Science***
	  - *1st Place*, Pierskalla Award for Best Paper in Healthcare (2019)
	  - *1st Place*, MSOM Student Paper Competition (Anderer, 2020)
	  - *Finalist*, Public Sector in Operations Best Paper Award (2020)
	
	Meta Dynamic Pricing: Transfer Learning Across Experiments
	H. Bastani, D. Simchi-Levi and R. Zhu
	Accepted, ***Management Science***
	
	Predicting with Proxies: Transfer Learning in High Dimension
	H. Bastani
	Management Science (2020)
	
	Mostly Exploration-Free Algorithms for Contextual Bandits
	H. Bastani, M. Bayati and K. Khosravi
	Management Science (2020)
	
	Online Decision-Making with High-Dimensional Covariates
	H. Bastani and M. Bayati
	Operations Research (2020)
	  - *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)

Evidence of Upcoding in Pay-for-Performance Programs
H. Bastani, J. Goh and M. Bayati
Management Science (2019)
- *1st Place*, Health Applications Society Best Student Paper Award (2015)

Multiplex coherent anti-Stokes Raman scattering (MCARS) for chemically sensitive, label-free flow cytometry
C. Camp, S. Yegnanarayanan, A. Eftekhar, H. Sridhar and A. Adibi
Optics Express (2009)

Working Papers	**Deploying an Artificial Intelligence System for COVID-19 Testing at the Greek Border**, H. Bastani*, K. Drakopoulos*, V. Gupta*, J. Vlachogiannis, C. Hadjicristodoulou, P. Lagiou, G. Magiorkinis, D. Paraskevis and S. Tsiodras (* denotes equal contribution)

Are Bans Effective under Limited Monitoring? Evidence from High Seas Management, H. Bastani and J. F. de Zegher
Major Revision, ***Management Science***
- *People's Choice Award*, Early-Career Sustainable OM Workshop (2019)

Learning Personalized Product Recommendations with Customer Disengagement, H. Bastani, P. Harsha, G. Perakis and D. Singhvi
Major Revision, ***M&SOM***
- *2nd Place*, Service Science Best Paper Award (2019)
- *Hon. Mention*, POMS Best Student Paper in Supply Chain (Singhvi, 2019)

Interpreting Predictive Models for Human-in-the-Loop Analytics
H. Bastani, O. Bastani and C. Kim
- *Finalist*, Pierskalla Award for Best Paper in Healthcare (2018)

Responsible Sourcing: The First Step is the Hardest
P. Ramchandani, H. Bastani and K. Moon
- *People's Choice Award*, Early-Career Sustainable OM Workshop (2020)

Learning Best Practices: Can Machine Learning Improve Human Decision-Making? H. Bastani, O. Bastani and W. Sinchaisri

Group-Sparse Matrix Factorization for Transfer Learning of Word Embeddings, K. Xu, X. Zhao, H. Bastani and O. Bastani

The Value of Transfer Learning in Retailing: Theory and Empirical Evidence, H. Bastani, Y. Jiang, J. Sun and D. J. Zhang |

Refereed Conference Papers	**Exploring the Causal Relationships between Initial Opioid Prescriptions and Outcomes**, J. Zhang, V. Iyengar, D. Wei, B. Vinzamuri, H. Bastani, A. Macalalad, A. Fischer, G. Yuen-Reed, A. Mojsilović, and K. Varshney

AMIA Workshop on Data Mining for Medical Informatics (2017)

Interpretability via Model Extraction
O. Bastani, C. Kim and H. Bastani
FATML Workshop on Fairness, Accountability, and Transparency (2017)

Analysis of Medicare Pay-for-Performance Contracts
H. Bastani, M. Bayati, M. Braverman, R. Gummadi and R. Johari
EC Workshop on Mechanism Design for Social Good (2017)

Creating Optical Vortex Modes with a Single Cylinder Lens
H. Sridhar, M. Cohen and J. Noe
Proceedings of *SPIE* (2010)

Book Chapters	**Proceed with Care: Integrating Predictive Analytics with Patient Decision-Making**, H. Bastani and P. Shi ***Modeling for Health: Making Changes*** (editors: S. Suen, E. Enns, D. Scheinker) **Applied Machine Learning in Operations Management** H. Bastani, D. J. Zhang and H. Zhang ***Innovative Technology at the Interface of Finance and Operations*** (editors: V. Babich, J. Birge, G. Hilary)

Students	**Arielle Anderer**, Wharton OID
	  - Advisor
	Pia Ramchandani, Wharton OID
	  - Advisor
	Kan Xu, Penn Economics
	  - Advisor
	Wichinpong Sinchaisri, Wharton OID (advisor: G. Allon), grad. in 2021
	  - Thesis committee member, co-author
	  - *Initial Placement:* Assistant Professor at UC Berkeley Haas
	Ruihao Zhu, MIT IDSS (advisor: D. Simchi-Levi), grad. in 2021
	  - Thesis committee member, co-author
	  - *Initial Placement:* Assistant Professor at Purdue Krannert
	Divya Singhvi, MIT ORC (advisor: G. Perakis), grad. in 2020
	  - Co-authored job market paper
	  - *Initial Placement:* Assistant Professor at NYU Stern
	Khashayar Khosravi, Stanford EE (advisor: M. Bayati), grad. in 2019
	  - Co-authored job market paper
	  - *Initial Placement:* Postdoctoral fellow at Google

Teaching	**Wharton OID, University of Pennsylvania**
	Instructor, Introduction to Management Science (OIDD 321), 2018 – present
	  - Recipient of Wharton Teaching Excellence Award in 2019 and 2020
	
	Instructor, Bandits, RL and Transfer Learning (OIDD 941), 2021
	  - Designed new Ph.D. course

Invited Talks	**2020:** Yale School of Management; Chicago Booth OM; U of Maryland DO&IT; Purdue Krannert; Cornell Johnson OTIM; Utah Ops Conference; Facebook Adaptive Experimentation Workshop; Simons Institute for the Theory of Computing; Keynote Speaker for KDD Workshop on Applied Data Science for Healthcare; Invited Speaker for NeurIPS Workshop on Consequential Decision-Making; INFORMS Health Applications Society Tutorial; Wharton Analytics Webinar

2019: NYU Stern OM; MIT IDSS Data Science Lab; UC Irvine Operations & Decision Technologies; UC Irvine Algorithms, Combinatorics & Optimization Center; UT Dallas Naveen Jindal OM; Wharton OID; Wharton Empirical Workshop; Information & Learning Workshop, IESE; ISOM Workshop, Emory; Healthcare SIG; CUHK Shenzhen Healthcare & Service Operations Workshop

2018: IMA Data-Driven Supply Chain Mgmt (Applied) Workshop; IMA Data-Driven Supply Chain Mgmt (Theory) Workshop; Penn Warren Center for Network & Data Sciences; IBM Research Math for AI; IDinsight; MIT ORC IAP Seminar on OR for Social Impact

2017: UCLA Anderson; Duke Fuqua; USC Marshall; Northwestern IEMS; Yale School of Management; Harvard Business School; Columbia IEOR / DRO; Ross School of Business; INSEAD; Chicago Booth OM; Kellogg OM; Purdue Krannert IS; MIT IDSS Data Science Lab; U of Cambridge, Judge Business School; IBM Research Applied Probability Seminar; Cornell Tech; Stanford-Berkeley Health Economics Workshop

2016: Cornell ORIE; Wharton OID; Indiana Kelley; London Business School; Pittsburgh Katz; MIT Sloan OM; Stanford GSB OIT; Stanford Biostatistics Workshop; Stanford Medical School Med-X Conference; Healthcare SIG

2015 & earlier: Cornell ORIE; Cornell ORIE Young Scholars Workshop; Wharton Empirical Research in OM Workshop

Awards
Wharton Teaching Excellence Award, 2020
Finalist, Public Sector in Operations Best Paper Award, 2020
People's Choice Award, Early-Career Sustainable OM Workshop, 2020
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
Wharton Teaching Excellence Award, 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
Finalist, Intel Science Talent Search, 2008

Service	Associate Editor for *M&SOM* (2021-) Reviewer for *Management Science*, *Operations Research*, *M&SOM*, *JRSS Series B*, *Annals of Statistics*, *JASA*, and *Nature* Co-Chair, George Nicholson Student Paper Competition, 2020 Co-Chair, Pierskalla Award for Best Paper in Healthcare, 2020 Program Committee, EC Conference, 2020 Program Committee, AAAI Conference on Artificial Intelligence, 2020 Program Committee, EC Mechanism Design for Social Good Workshop, 2018-2020 Wharton Dean's Advisory Council, 2019-2020 Area Chair, Mechanism Design for Social Good Workshop, 2019 Meritorious Service Award for *Management Science*, 2018 Co-Chair, Pierskalla Award for Best Paper in Healthcare, 2017 Speaker, CMU YinzOR Student Conference, 2017 *Various years:* Judge for Healthcare SIG in MSOM, Sustainability SIG in MSOM, POMS Best Healthcare OM Paper Competition, George Nicholson Student Paper Competition, Revenue Management & Pricing Conference, Healthcare Applications Society Student Paper Competition, MSOM Student Paper Competition, Elwood S. Buffa Doctoral Dissertation Award, Service Science Best Cluster Paper Award