Hamsa Sridhar Bastani

1101 Kitchawan Road, Yorktown Heights, NY 10598
Phone: 631-697-4356 E-Mail: hamsabastani@ibm.com Web: http://hamsabastani.github.io

Employment

Goldstine Postdoctoral Fellow, IBM Research **2017 - 2018**

Assistant Professor, Wharton Operations, Information and Decisions (OID) **2018 - present**

Education

Ph.D. in Electrical Engineering, Stanford University **2012 - 2017**

Thesis: Data-Driven Operations and Incentives in Healthcare

Advised by Prof. Mohsen Bayati

A.M. in Physics, Harvard University **2011 - 2012**

A.B. *summa cum laude* in Physics and Mathematics, Harvard University **2008 - 2012**

Highest honors distinction, Phi Beta Kappa (PBK) scholar.

Research Interests

- Data-driven dynamic decision-making under uncertainty
- Healthcare operations management and mechanism design
- High-dimensional statistics and causal inference

Working Papers

Online Decision-Making with High-Dimensional Covariates (submitted to *Management Science*)

Joint work with M. Bayati

- Winner, 2016 Pierskalla Award for Best Paper in Healthcare
- Winner, 2016 George Nicholson Student Paper Competition
- Winner, 2016 MSOM Student Paper Competition
- Winner, 2016 IBM Service Science Best Student Paper Award
- Selected talks: MSOM (2015, 2016), INFORMS (2015, 2016), Cornell Workshop for Data-Driven Decision-Making (2015), Revenue Management & Pricing Workshop (2016), World Congress of Probability and Statistics (2016), Stanford Biostatistics Workshop (2016), Stanford Medicine-X (2016)

Evidence of Upcoding in Pay-for-Performance Programs (revised & resubmitted to *Management Science*)

Joint work with J. Goh and M. Bayati

**Previously circulated as "Evidence of Strategic Behavior in Medicare Claims Reporting"*

- Winner, 2015 INFORMS Health Applications Society Best Student Paper Award
- Selected talks: Wharton Workshop for Empirical Research in OM (2014), MSOM (2015), INFORMS Healthcare (2015), INFORMS (2015, 2016), MSOM SIG Healthcare (2016)

Analysis of Medicare Pay-for-Performance Contracts (submitted to *Management Science*)
Joint work with M. Bayati, M. Braverman, R. Gummadi and R. Johari

Asymptotic Optimality of Greedy Policies in Online Decision-Making
Joint work with M. Bayati and K. Khosravi

Teaching & Professional Experience

Teaching Assistant, OIT 367 (Business Intelligence from Big Data), Stanford GSB **Winter, 2016**
MBA Core course taught by Mohsen Bayati.

Teaching Assistant, OIT 536 (Data for Action), Stanford GSB **Winter, 2015**
MBA Elective course co-taught by Mohsen Bayati and Guido Imbens. This was the first iteration of the course; I assisted with choosing topics, designing the syllabus, and determining metrics for student evaluation.

Data Science Ph.D. Intern, eBay Search Science **Summer, 2013**

Teaching Fellow, PHYS 143a (Quantum Mechanics I), Harvard Physics Department **Spring, 2011**

Course Assistant, MATH 25 (Linear Algebra & Real Analysis), Harvard Math Department **Fall / Spring, 2010**

Selected Honors

Winner, Pierskalla Award for Best Paper in Healthcare **2016**

Winner, George Nicholson Student Paper Competition **2016**

Winner, MSOM Student Paper Competition **2016**

Winner, IBM Service Science Best Student Paper Award **2016**

Winner, INFORMS Health Applications Society Best Student Paper Award **2015**

National Science Foundation Fellow **2012 – present**

Stanford Departmental Fellowship, Electrical Engineering **2012 – 2013**

Intel Science Talent Search Finalist **2008**

Other Publications

Zero-Shot Learning Through Cross-Modal Transfer
Joint work with R. Socher, M. Ganjoo, O. Bastani, C. Manning, and A. Ng. Oral presentation at International Conference on Learning Representations (ICLR) Workshop Track (2013).

Multiplex coherent anti-Stokes Raman scattering (MCARS) for chemically sensitive, label-free flow cytometry
Joint work with C. Camp, S. Yegnanarayanan, A. Eftekhar, and A. Adibi. Published in *Optics Express* (2009).

Creating Optical Vortex Modes with a Single Cylinder Lens
Joint work with M. Cohen and J. Noe. Published in *Proceedings of SPIE* (2010).