

# 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

<b>Goldstine Postdoctoral Fellow, IBM Research</b> Computational and Mathematical Sciences	<b>2017 – 2018</b>
<b>Assistant Professor, Wharton Operations, Information and Decisions (OID)</b>	<b>2018 –</b>

## Education

<b>Ph.D. in Electrical Engineering, Stanford University</b> Thesis: Data-Driven Operations and Incentives in Healthcare Advised by Prof. Mohsen Bayati	<b>2012 - 2017</b>
<b>A.M. in Physics, Harvard University</b>	<b>2011 - 2012</b>
<b>A.B. <i>summa cum laude</i> in Physics and Mathematics, Harvard University</b> Highest honors distinction, Phi Beta Kappa (PBK) scholar.	<b>2008 - 2012</b>

## 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

**Exploiting the Natural Exploration in Contextual Bandits**

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 – 2017**

**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).