# Hamsa Sridhar Bastani

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## Employment

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

Computational and Mathematical Sciences

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

## 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 – 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).