Rahul Ladhania

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Experience

University of Michigan 2020 -
Ann Arbor, MI, USA
Assistant Professor (effective August 2020)
Health Management & Policy, School of Public Health

The Wharton School, University of Pennsylvania 2019 - 2020
Philadelphia, PA, USA
Post-doctoral Scholar (effective July 2019)
Behavior Change for Good Initiative

Education

Carnegie Mellon University 2014 - 2019
Pittsburgh, PA, USA
Ph.D., Public Policy & Management
M.Phil., Public Policy & Management

Indian Institute of Technology Madras 2006 - 2010
Chennai, India
B.Tech., Metallurgical & Materials Engineering

Research

Proposing & Testing Sub-groups with Heterogeneous Treatment Effects: A Sequence of Two Studies — Thesis Work
Ladhania R
Committee: Haviland AM, Sood N, Kennedy EH, & Mehrotra A

The Effect of Medicaid Expansion on the Nature of New Enrollees' Emergency Department Use — Medical Care Research and Review (2019)
Ladhania R, Haviland AM, Venkat A, Telang R, & Pines JM

Changes in Reimbursement to Physicians After Medicaid Expansion Under The Affordable Care Act — Annals of Emergency Medicine (2019)
Pines JM, **Ladhania R**, Black B, Corbit C, Carlson J, & Venkat A

PhD Coursework

Statistics & Machine Learning	**Economics/Econometrics**
Intermediate Statistics	Microeconomics
Advanced Introduction to Machine Learning	Econometric Theory
Convex Optimization	Game Theory
Causal Inference	Structural Models
Statistical Machine Learning	
Graduate Artificial Intelligence	
Probability Modeling & Stochastic Processes	
Hierarchical Models	

Teaching Experience	**Microeconomics (PhD)** Teaching Assistant	Fall '18, '17, '16
	Economic Analysis (Masters') Online Instructor	Summer '18
	Statistics for IT Managers (Masters') Online Instructor	Spring '18, '17, '16
	Exploring & Visualizing Data (Masters') Teaching Assistant	Spring '19, '17; Fall '18
	Decision Making Under Uncertainty (Masters') Teaching Assistant	Spring '19; Summer '18
Paper Talks	Joint Statistical Meetings (JSM) 2019 (Accepted) Denver, CO, USA	July '19
	2019 ASHEcon Conference (Accepted) Washington, DC, USA	June '19
	Atlantic Causal Inference Conference 2019 Montreal, QC, Canada	May '19
	Fall 2018 Penn-CMU Roybal Center Retreat Skytop, PA, USA	October '18
	Joint Statistical Meetings (JSM) 2018 Vancouver, BC, Canada	August '18
	Machine Learning in Health Care Meeting, NBER Cambridge, MA, USA	June '18
	International Conference on Health Policy Statistics Charleston, SC, USA Travel Award Recipient	January '18
	Fall 2017 Penn-CMU Roybal Center Retreat Skytop, PA, USA	October '17
	12th World Congress of the International Health Economics Association, Boston, MA, USA	July '17
	81st Annual Meeting of the Midwest Economics Association, Cincinnati, OH, USA	April '17
Poster Presentations	ML4H: Machine Learning for Health Workshop at NeurIPS 2018, Montreal, QC, Canada	December '18
	Academy Health 2018 Annual Research Meeting, Seattle, OR, USA	June '18
	Academy Health 2017 Annual Research Meeting, New Orleans, LA, USA	June '17

Summary of Interest in AI

Rahul Ladhania

I am a post-doctoral researcher with the Behavior Change for Good machine learning team at The Wharton School of the University of Pennsylvania. I received my PhD in May 2019 from the Heinz College of Information Systems & Public Policy at Carnegie Mellon University. My research is in the area of health policy and statistics. I am particularly enthused by recent developments in the area of causal inference, with a focus on using statistical machine learning methods to estimate causal impacts of policy, digital and/or behavioral interventions on patient behavior, health outcomes and physician productivity.

Specifically, my published and ongoing work has involved estimating the causal effect(s) - average/heterogeneous – of interventions (Medicaid expansion/switch to high-deductible health plans) on patients' use of care across health-care settings. My dissertation was on proposing and testing heterogeneous treatment effects using a sequence of two studies. Some characteristics of the studies I am involved in - large co-variate space, lack of a priori hypotheses, and relative small sample sizes - have informed my push toward leveraging machine learning methods in combination with traditional econometric tools for "causal" prediction. My work has been accepted at meetings such as the Joint Statistical Meetings, International Conference on Health Policy Statistics, NeurIPS ML4H workshop, ASHEcon, and Academy Health. I am also a reviewer for Artificial Intelligence in Medicine and Medical Care.

Over the course of my PhD, I have taken an extensive number of PhD courses in Statistics and Machine Learning, along with economics and econometric courses, which have equipped me with the tools to ask and answer questions using these methods. With my academic training and research experience, I believe I would be a great fit at the NBER PhD Workshop on the Economics of Artificial Intelligence, and will be able to be an effective learner and contributor in such an enriching setting.