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**EDUCATION** Massachusetts Institute of Technology, 2010  
Ph.D. Economics  
Brigham Young University, 2004  
B.S. Physics and Economics (*Summa cum Laude* and University Honors)

**CITIZENSHIP** USA **DATE OF BIRTH** August 1980

**LANGUAGES** English (native), Hungarian (fluent)

**FIELDS** Primary Fields: Labor Economics, Econometrics  
Secondary Fields: Health Economics, Public Finance

**RELEVANT POSITIONS** Associate Professor, Department of Economics, BYU 2018-present  
Visiting Associate Professor, Department of Economics, MIT 2018-2019  
Assistant Professor, Department of Economics, BYU 2012-2018  
Robert Wood Johnson Scholar in Health Policy Research, Harvard 2010-2012  
Management Consultant, McKinsey & Company 2004-2006

**FELLOWSHIPS, HONORS, AND AWARDS** NSF Graduate Research Fellowship  
NSF Doctoral Dissertation Research Improvement Grant (\$15,000), 2009  
MIT Economics Department Graduate Fellowship, 2006-2008  
Best Graduate Teaching Assistant, MIT Economics Department, 2009,2010

**PUBLICATIONS:** **“Discussion on ‘Instrumental variable estimation of the causal hazard ratio,’”** accepted at *Biometrics*  
  
**“Machine Labor”** (with Joshua Angrist), *Journal of Labor Economics*  
**Vol. 40 (S1) April 2022**

- PUBLICATIONS (CONTINUED)** “The Surprising Impacts of Unionization: Evidence from Matched Employer-Employee Data,” *Journal of Labor Economics* Vol. 39 (4) October 2021
- “Partial Identification of the Distribution of Treatment Effects, with an Application to the Knowledge is Power Program (KIPP)” (with Lars Lefgren), *Quantitative Economics*, volume 12 (1), January 2021
- “Fragmented Division of Labor and Healthcare Costs: Evidence from Moves Across Regions” (with Leila Agha and James Rebitzer), *Journal of Public Economics*, Vol. 169, p. 144-159, January 2019
- “Sticking Points: Common Agency Problems and Contracting in the U.S. Healthcare System” (with Michael Powell and James Rebitzer) *RAND Journal of Economics*, Vol. 50, No. 2, Summer 2019 pp. 251–285
- “Testing Censoring Point Independence,” *Journal of Business & Economic Statistics*, 2019 37:3, 496-505
- “Testing Rank Similarity,” with Lars Lefgren, *Review of Economics and Statistics*, 2018 100:1, 86-91
- “Public Employee Pensions and Collective Bargaining Rights: Evidence from State and Local Government Finances,” accepted, *Journal of Law, Economics & Policy*”
- “Party Bias in Union Representation Elections: Testing for Manipulation in the Regression Discontinuity Design when the Running Variable is Discrete,” *Advances in Econometrics* vol. 38, 2017
- “Treatment Effects with Censoring and Endogeneity,” *Journal of the American Statistical Association*, volume 110, issue 512, 2015
- “The Effects of Collective Bargaining Rights on Public Employee Compensation: Evidence from Teachers, Fire Fighters, and Police,” *Industrial and Labor Relations Review* 69(1) January 2016
- “Impacts of Unionization on Quality and Productivity: Regression Discontinuity Evidence from Nursing Homes,” *Industrial & Labor Relations Review*. 68(4): 771-806 August 2015 (with Aaron Sojourner, Robert Town, David Grabowski, and Michelle Chen)
- “Structuring Incentives within Organizations: The Case of Accountable Care Organizations,” *The Journal of Law, Economics, and Organizations* 31 August 2015, with James Rebitzer
- “Care Fragmentation, Quality, and Healthcare Spending among Chronically Ill, Commercially Insured Patients,” *American Journal of Managed Care*, 21(5):355-362 May 2015 (with Ashish Jha, Karen Joynt, and Jim Rebitzer)
- “Randomization Inference in the Regression Discontinuity Design: An

**Application to Party Advantages in the U.S. Senate,”** *The Journal of Causal Inference*, 3(1):1-24 March 2015, (with Rocio Titiunik and Matias Cattaneo)

**“Quantile Treatment Effects in the Regression Discontinuity Design,”** *Journal of Econometrics* 168(2) June 2012, with Markus Froelich and Blaise Melly

**“Did Vietnam Veterans Get Sicker in the 1990s? The Complicated Effects of Military Service on Self-Reported Health,”** *Journal of Public Economics* 94(11-12) December 2010, with Joshua Angrist and Stacey Chen

**“Some Variations on Standard Income Measurement Error Models,”** *Journal of Income Distribution*, 2004, with James B. McDonald

**“Acceleration of Free Electrons in a Symmetric Evanescent Wave,”** *Laser Physics*, 2006, with Justin B. Peatross and Scott A. Glasgow

**RESEARCH  
PAPERS:**

**“Judging Judge Fixed Effects”**  
NBER Working Paper 25528, with Lars Lefgren and Emily Leslie,  
revise and resubmit at *AER*

We propose a test for the identifying assumptions invoked in designs based on random assignment to one of many "judges." We show that standard identifying assumptions imply that the conditional expectation of the outcome given judge assignment is a continuous function with bounded slope of the judge propensity to treat. The implication leads to a two-part test that generalizes the Sargan-Hansen overidentification test and assesses whether implied treatment effects across the range of judge propensities are possible given the domain of the outcome. We show the asymptotic validity of the testing procedure, demonstrate its finite-sample performance in simulations, and apply the test in an empirical setting examining the effects of pre-trial release on defendant outcomes in Miami. When the assumptions are not satisfied, we propose a weaker average monotonicity assumption under which IV still converges to a proper weighted average of treatment effects.

**“Simultaneous Confidence Intervals for Partially Identified Parameters”**

This article extends the Manski and Imbens (2004) and Stoye (2009) confidence interval for a partially identified scalar parameter to a vector-valued parameter. The proposed method produces uniformly valid simultaneous confidence intervals for each dimension, or, equivalently, a rectangular confidence region that covers points in the identified set with a specified probability. The method applies when asymptotically normal estimates of upper and lower bounds for each dimension are available. The intervals are computationally simple and fast relative to methods based on test inversion or bootstrapped calibration, and do not suffer from the conservativity of projection-based approaches.

**“Common Agent or Double Agent? Pharmacy Benefit Managers in the Prescription Drug Market,”** with Rena Conti, Mike Powell, and Jim

**Rebitzer**

Pharmacy benefit managers (PBMs) play a central role in the U.S. market for prescription drugs, but are poorly understood and controversial. PBMs act as market intermediaries who operate drug formularies on behalf of payers and their activities are generally understood to produce lower prices and savings for their clients. Here we model PBMs as a common agent across payers and receive payments from branded 'on patent' drug makers for helping them sell their products to these consumers. The latter payments are called rebates and are calculated per unit sold and as a percentage of the drug's list price set by the drug maker. Rebates are a central focus of controversy; observers question whether rebates turn these common agents into 'double agents', furthering their own for profit interests at the expense of their payer clients and contributing to inflated branded drug prices. Our model is useful for identifying conditions under which PBMs greatly enhance market efficiency. The model also identifies conditions under which PBMs threaten market efficiency. For example, we find that when PBMs are highly concentrated, these efficiency gains accrue to PBMs rather than consumers or drug makers. Our model offers a framework for understanding current market organization and evaluating proposed market reforms.

**PROFESSIONAL  
ACTIVITIES****Referee:**

*American Economic Journal: Applied Economics*  
*American Economic Journal: Policy*  
*American Economic Review*  
*Biometrics*  
*Biostatistics*  
*Contemporary Economic Policy*  
*Econometric Theory*  
*Econometrica*  
*Economic Inquiry*  
*Economic Journal*  
*Economics of Education Review*  
*Empirical Economics*  
*Health Affairs*  
*Industrial and Labor Relations Review*  
*Industrial Relations*  
*International Journal of Health Economics and Management*  
*Journal of Applied Econometrics*  
*Journal of Business & Economic Statistics*  
*Journal of Econometrics*  
*Journal of Experimental Political Science*  
*Journal of Health Economics*  
*Journal of Human Resources*  
*Journal of Labor Economics*  
*Journal of Political Economy*  
*Journal of Public Economics*  
*Journal of the American Statistical Association*  
*Journal of the European Economic Association*  
*Labour*  
*MIT Press*  
*National Science Foundation*  
*Oxford Bulletin of Economics and Statistics*  
*Oxford Economic Papers*  
*Quarterly Journal of Economics*

*Quarterly Journal of Political Science*  
*Review of Economics and Statistics*  
*Social Science Quarterly*

**Presentations:**

International Association of Applied Econometrics, London	June 2022
California Econometrics Conference, Stanford	May 2022
ASSA Annual Meeting	January 2022
Federal Trade Commission Bureau of Economics Seminar	October 2021
Rice University Health Economics Guest Lecture	October 2021
American Society of Health Economists (ASHEcon) Annual Conference	June 2021
Congressional Budget Office Health Analysis Division Seminar	June 2021
University of Massachusetts Amherst Applied Micro Seminar, Amherst, MA	March 2021
BU/Harvard/MIT Health Economics Seminar, Cambridge, MA	February 2021
JOLE Conference in Honor of Alan Krueger	October 2020
Duke-Northwestern Causal Inference Workshop, Durham, NC	August 2019
Conference in honor of Whitney Newey, MIT, Cambridge, MA	May 2019
Iowa Econometrics Conference, University of Iowa	May 2019
MIT Applied Micro Seminar, Cambridge, MA	February 2019
Brown University Economics Seminar, Providence, RI	January 2019
CREST Econometrics Seminar, Paris, France	December 2018
CM Statistics, Pisa, Italy	December 2018
Boston University Econometrics Seminar, Boston, MA	November 2018
Duke University Econometrics Seminar, Durham, North Carolina	October 2018
Boston College Econometrics Seminar, Boston, MA	September 2018
Western Economic Association Summer Meetings, Vancouver	June 2018
Southern Utah University Economics Seminar, Cedar City, UT	March 2018
University of Michigan Econometrics Seminar, Ann Arbor, Michigan	September 2017
Institute for Economic and Social Research, Jinan University, Guangzhou, China	August 2017
Brookings Institution Municipal Finance Conference, Washington, D.C.	July 2017
Society of Labor Economists Annual Meeting, San Diego, CA	June 2017
University of Utah Entrepreneurship and Strategy Seminar, Salt Lake City, Utah	April 2017
Syracuse University Economics Seminar, Syracuse, New York	April 2017
Public Policy Conference on Solving the Public Pension Crisis, GMU Scalia Law School	December 2016
UC Riverside Economics Seminar, Riverside, California	November 2016
APPAM	November 2016
California Econometrics Conference, Provo, Utah	October 2016
Research Roundtable on Solving the Public Pension Crisis, GMU Scalia Law School	September 2016
University of Utah Economics Seminar, Salt Lake City, Utah	September 2016
Advances in Econometrics Conference, University of Michigan	May 2016
Federal Reserve NYC Microeconomics Seminar, NYC	May 2016
UC Irvine Econometrics Seminar, Irvine	May 2016
UCLA Econometrics Seminar, Los Angeles	April 2016
Columbia University Econometrics Seminar, NYC	October 2015
California Econometrics Conference, USC	September 2015
Econometric Society World Congress, Montreal	August 2015
Western Economic Association Summer Meetings, Honolulu	June 2015
Harvard-MIT Econometrics Seminar, Cambridge	May 2015
University of Minnesota Carlson School of Management Seminar, Minneapolis	May 2015

UC Davis Econometrics Seminar, Davis	May 2015
Econometric Society North American Winter Meetings, Boston	January 2015
AEA Annual Meetings, Boston	January 2015
California Econometrics Conference, Stanford University	September 2014
Econometric Society North American Summer Meetings, University of Minnesota	June 2014
Econometric Society North American Summer Meetings, University of Southern California	June 2013
Conference on Healthcare Markets, Kellogg School of Management, Evanston	May 2013
AEA Annual Meetings, San Diego	January 2013
Haas-Sloan Conference on the Law and Economics of Organizations, UC Berkeley	December 2012
Econometric Society North American Summer Meetings, Northwestern University	June 2012
American Society of Health Economists Annual Meeting, University of Minnesota	June 2012
Northwestern Searle Center Conference on Government Unions in the United States, Chicago	October 2011
Econometric Society North American Summer Meetings, Washington University, St. Louis	June 2011
AEA Annual Meetings, Denver	January 2011
Census Research Data Center Annual Conference, University of Maryland	November 2010
NBER Labor Studies Program Meeting, Cambridge, MA	October 2010
Econometric Society World Congress, Shanghai	August 2010
Society of Labor Economists Annual Meetings, University College London	June 2010
Econometric Society North American Summer Meetings, Boston University	June 2009
Society of Labor Economists Annual Meetings, Cambridge, MA	May 2009
Census Research Data Center Annual Conference, Duke University	October 2008