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HARVARD UNIVERSITY

Dept of Economics, Yale University	Placement Director: Jeremy Stein	jeremy_stein@harvard.edu	617-496-6455
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New Haven CT 06511	Administrative Director: Brenda Piquet	bpiquet@harvard.edu	617-495-8927

Education	**Harvard University**
	Ph.D. Economics, 2017 to 2023
	Wellesley College
	B.A. Computer Science and Economics, *magna cum laude*, 2009 to 2013
Fields	Public Economics, Labor Economics, Health Economics

References

Professor David Cutler	Professor Mark Shepard
Department of Economics	Kennedy School of Government
Harvard University	Harvard University
dcutler@fas.harvard.edu	mark_shepard@hks.harvard.edu
Professor Jason Abaluck	Professor Zack Cooper
School of Management	Department of Health Policy and Management
Yale University	Yale School of Public Health
jason.abaluck@yale.edu	zack.cooper@yale.edu

Employment	Yale University, Tobin Center for Economic Policy, Postdoctoral Associate, 2023 - present
	National Bureau of Economic Research, Research Assistant for Amanda Kowalski, 2015-2017
	Analysis Group, Senior Analyst (promoted from Analyst), 2013-2015

Teaching	*Using Big Data to Solve Economic and Social Problems*, Harvard University, teaching fellow for Professor Raj Chetty, Spring 2020 and Spring 2021
	Why Is There No Cure for Health Care, Harvard University, teaching fellow for Professor David Cutler, Fall 2019 and Fall 2020
	Introduction to Microeconomics, Wellesley College, teaching fellow for Professor Andre Switala, Fall 2012
	Introduction to Probability and Statistics, Wellesley College, teaching fellow for Professor Brett Danaher, Spring 2012
	Data Structures, Wellesley College, teaching fellow for Professor Brian Tjaden, Fall 2011

Job Market Paper	**Informative Ordeals in Healthcare: Prior Authorization of Drugs in Medicaid**, with Samantha Burn
	Health insurers frequently impose 'prior authorization' on drugs and services, requiring providers to fill out paperwork before treatment is eligible for coverage. The stated purpose of these policies is to reduce health care spending, ensure treatment complies with established guidelines and target use of treatments to those most likely to benefit. However, critics argue that these policies increase barriers to use of necessary treatment. Using all-payer claims data from Massachusetts in 2009-2013, we estimate the effect of prior authorization on the use of drugs in MassHealth, the state Medicaid fee-for-service program. We compare Medicaid beneficiaries affected by changes in prior authorization requirements to people in plans of a major commercial insurer not affected by these policy changes. Prior authorizations lead to a 50-60% drop in patients receiving a prescription. We

split prescriptions into 'on-label' and 'off-label' uses of drugs based on FDA indications and we find prior authorization requirements result in large reductions in both on- and off-label uses.

Working Papers	**Drug Adoption under Uncertain Quality and Impact of FDA (De)Certification**

We examine the adoption of untested drugs and how physicians' prescribing decisions respond to trials conducted in the pediatric population after initial market entry. While pediatric approval at market entry increases market share relative to no approval, physicians adopt drugs even in settings without corresponding FDA labeling information. Even though physicians use ex-post ineffective or unsafe drugs, the ex-post effective drugs comprise the majority of FDA-unapproved uses, indicating concordance between physician prescribing and FDA decisions. Subsequent FDA certification and decertification of pediatric uses of drugs have small impacts on prescription behavior due to high rates of off-label use and large delays between market entry and subsequent labeling changes.

Racial Disparities in COVID-19 Cases and Deaths: Theories and Evidence

Non-white individuals are 1.75 times more likely to get infected with COVID-19 and 1.54 times more likely to die of COVID-19 than white individuals. Using county-level data on COVID-19 cases by race, I find that average household size and public transportation use are statistically significantly correlated with case rates by race. Consequently, equalizing demographic, socio-economic, and environmental characteristics across racial groups, in particular average household size and percent elderly, is expected to reduce Black-white case rate differences by 66%, Hispanic-white case rate differences by 300%, and AIAN/NHPI-white case rate differences by 44.5%. Equalizing the strength of correlations between these characteristics and case rates across racial groups is expected to increase Black-white and AIAN/NHPI-white racial disparities but decrease Hispanic-white disparities due to the strong relationship between average household size and case rates among the Hispanic population.

Human Capital Spillovers and Health: Does Living Around College Graduates Lengthen Life?, with Jacob Bor, David Cutler, and Edward Glaeser *(submitted)*

Equally educated people are healthier if they live in more educated places. Every 10 percent point increase in an area's share of adults with a college degree is associated with a decline in all-cause mortality by 7%, controlling for individual education, demographics, and area characteristics. Area human capital is also associated with lower disease prevalence and improvements in self-reported health. The association between area education and health increased greatly between 1990 and 2010. Spatial sorting does not drive these externalities; there is little evidence that sicker people move disproportionately into less educated areas. Differences in health-related amenities, ranging from hospital quality to pollution, explain no more than 17% of the area human capital spillovers on health. Over half of the correlation between area human capital and health is a result of the correlation between area human capital and smoking and obesity. More educated areas have stricter regulations regarding smoking and more negative beliefs about smoking. These have translated over time into a population that smokes noticeably less and that is less obese, leading to increasing divergence in health outcomes by area education.

Papers in Progress	**Instrumental Variable Methods Reveal Large Risks of Menopausal Hormone Therapy in the Landmark Women's Health Initiative Clinical Trial**, with Josh Angrist, Amanda Kowalski and Marcia Stefanick

Evaluating state policies to regulate healthcare spending, with Zack Cooper

Staff Composition and Patient Outcomes at Nursing Homes, with Ashvin Gandhi, David Grabowski and Brian McGarry

Regional variation in health care prices, with Mai Anh Tran, Stuart Craig and Zack Cooper

Publications	**Impact of Symptomatic Skeletal Events on Healthcare Resource Utilization and Quality of Life Among Patients with Castration-Resistant Prostate Cancer and Bone Metastases**, with Rana McKay, Batool Haider, Mei Duh, Adriana Valderrama, Mari Nakabayashi, Matthew Fiorillo, Lonnie Wen and Philip Kantoff *Prostate Cancer and Prostatic Diseases*; 20, p. 276-282, 2017.
	Functional Limitations and Health Care Resource Utilization for Individuals with Cognitive Impairment without Dementia: Findings from a US Population-Based Survey, with J. Scott Andrews, Urvi Desai, Noam Kirson, Caroline Enloe, Sarah King, Howard Birnbaum, Adam Fleisher, Wenyu Ye and Kristin Kahle-Wrobleski *Alzheimer's & Dementia: Diagnosis, Assessment & Disease Monitoring*; 6, p. 65-74, 2017.
	Assessing the Economic Burden of Alzheimer's Disease Patients First Diagnosed by Specialists, with Noam Kirson, Urvi Desai, Alice Kate Cummings, Howard Birnbaum, Wenyu Ye, Scott Andrews, Daniel Ball and Kristin Kahle-Wrobleski *BMC Geriatrics*; 16(138), published online, 2016.
	Economic Outcomes among Medicare Patients Receiving Bioengineered Cellular Technologies for Treatment of Diabetic Foot Ulcers, with J. Bradford Rice, Urvi Desai, Alice Kate Cummings, Howard Birnbaum, Michelle Skornicki, David Margolis and Nathan Parsons *Journal of Medical Economics*; 18(8), p. 586-595, published online, 2015.
Other writing	**Regulations and Data Sources on Pediatric Clinical Studies in the United States and European Union** National Bureau of Economic Research and Institute for Fiscal Studies Network on the Value of Medical Research; published online, 2020.
	Political Consensus for the Economic Future of Republic of Macedonia (book; in Macedonian) with Marjan Nikolov, Borce Trenovski and Hristijan Ristovski Open Society Institute; published online, 2013.
	MTEBINARY: Stata Module to Compute Marginal Treatment Effects (MTE) with a Binary Instrument, with Amanda Kowalski and Yen Tran
	MTEMORE: Stata Module to Compute Marginal Treatment Effects (MTE) with a Binary Instrument, with Amanda Kowalski and Yen Tran
Fellowships & Awards	*Institute for Quantitative Social Science,* Affiliate, 2022-2023
	Professional Development Fund, Harvard University, 2022
	Certificate for Distinction in Teaching, Derek Bok Center for Teaching and Learning, Harvard University, 2020
	Certificate for Distinction in Teaching, Derek Bok Center for Teaching and Learning, Harvard University, 2019
	Value of Medical Research Fellowship, National Bureau of Economic Research and Institute for Fiscal Studies, 2019-2020
	Humane Studies Fellowship, Institute for Humane Studies, 2019-2020
	Peggy Howard Fellowship, Wellesley College Economics Department, 2017-2018, 2019-2020
	Phi Beta Kappa, Wellesley College, 2013
	Sigma Xi, Wellesley College, 2013
	Case Fellowship, Wellesley College Economics Department, 2012-2013
	Audrey Freedman '51 Endowed Fund for Students in Economics, Wellesley College, 2012
	Three Generations Prize for Writing in Science, Wellesley College Writing Department, 2011
	Elizabeth Vogel Falk Prize in German, Wellesley College German Department, 2010

Seminars & Conferences	American Economic Association Annual Meeting, 2025 (scheduled, coauthor presenting)
	Southeastern Health Economics Study Group Conference, 2024 (scheduled)
	Midwest Health Economics Conference, 2024
	Conference on Risky Economic Behaviors, 2024
	Toulouse School of Economics Health Care Conference, 2024
	American Society of Health Economists Annual Conference (x2), 2024
	Barcelona School of Economics Summer Forum: Public Economics, 2024
	NBER Economic Analysis of Regulation Conference, 2024 (coauthor presented)
	National Tax Association Annual Meeting (x2), 2023
	Southern Economic Association Annual Meeting, 2023
	American Society of Health Economists Annual Conference, 2023
	MIT Critical Data: Role of Data in Disaster Preparedness, 2021
	NBER/IFS Value of Medical Research Conference, 2020
Academic Service	Referee for: Journal of Urban Economics, Clinical Trials: Journal of the Society for Clinical Trials, PLOS ONE
	National Collegiate Research Conference Judge, 2020 and 2022
	Harvard and MIT Application Assistance and Mentoring Program mentor, 2021-2022
	Labor Economics and Public Finance Student Workshop at Harvard organizer, 2019-2020
	Harvard Graduate Women in Economics core team member, 2018-2020
	Harvard Economics Professional Development Team core team member, 2018-2020
	Harvard Economics Department peer mentor, 2018-2020
	Harvard University Bureau of Study Counsel tutor for Microeconomic Theory I (graduate) and Introduction to Econometrics (undergraduate), 2018-2019
Research Grants	Research Assistant Funding Grant, Franklin Delano Roosevelt Foundation, Harvard University, 2020 and 2022
	Chae Family Economics Research Fund, Harvard University Economics Department, 2022
	Warburg Fund, Harvard University Economics Department, 2021
	Lab for Economic Applications and Policy Grant, Harvard University Economics Department, 2020
Membership	American Economic Association (AEA), American Society of Health Economists (ASHEcon), National Tax Association (NTA), Southern Economic Association (SEA), Association for Public Policy Analysis and Management (APPAM)