

**Brandyn F. Churchill**  
*Curriculum Vitae, January 24<sup>th</sup>, 2023*

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**Academic Appointments**

Assistant Professor, Resource Economics, University of Massachusetts Amherst, 2022 - *Present*  
Research Assistant Professor, Economics, Vanderbilt University, 2021 - 2022

**Education**

Vanderbilt University, Ph.D. in Economics, 2021, M.A. in Economics, 2018  
Committee: Christopher S. Carpenter, Lesley J. Turner, Analisa Packham, and Carolyn J. Heinrich  
San Diego State University, M.A. in Economics, 2016  
Washington and Lee University, B.A. in Economics, 2014

**Research and Teaching Fields**

Primary: Health Economics, Public Policy, Labor Economics, Economic Demography

**Publications**

- (8) "The Roles of Cost and Recommendations in Driving Vaccine Take-Up: Evidence from the Herpes Zoster Vaccine for Shingles Prevention," with Laura E. Henkhaus – Accepted at *American Journal of Health Economics*, doi: 10.1086/723541
- (7) "The Effect of State E-Verify Mandates on Crime," with Andrew Dickinson, Taylor Mackay, and Joseph J. Sabia (2022) *Industrial and Labor Relations Review*, 75(5): 1294-1320, doi: 10.1177/00197939211044449, Previously released as *IZA DP No. 12798*
- (6) "Immigration Enforcement and Infant Health," with Catalina Amuedo-Dorantes and Yang Song (2022) *American Journal of Health Economics*, 8(3): 323-358, doi: 10.1086/718510, Previously released as *IZA DP No. 13908*
- (5) "How Important is the Structure of School Vaccine Requirement Opt-Out Provisions? Evidence from Washington, DC's HPV Vaccine School Requirement," (2021) *Journal of Health Economics* 78: 102480, doi: 10.1016/j.jhealeco.2021.102480
- (4) "E-Verify Mandates and Unauthorized Immigrants' Access to Employer-Sponsored Health Insurance," (2021) *Southern Economic Journal*, 88(2): 487-526, doi: 10.1002/soej.12535
- (3) "Insurance Coverage, Provider Contact, and HPV Vaccination," (2021) *American Journal of Health Economics* 7(2): 222-247, doi: 10.1086/713037
- (2) "Driver's Licenses, Unauthorized Immigrants, and Auto Insurance," with Taylor Mackay and Bing Yang Tan (2021) *Contemporary Economic Policy* 39(1): 107-125, doi: 10.1111/coep.12492

- (1) “The Effects of Minimum Wages on Low-Skilled Immigrants’ Wages, Employment, and Poverty” with Joseph J. Sabia (2019) *Industrial Relations* 58(2): 275-314, doi: 10.1111/irel.12232

### **Working Papers**

“Bad Lighting: Effects of Youth Indoor Tanning Prohibitions,” with Christopher S. Carpenter and Michelle M. Marcus *NBER Working Paper No. 29443*, Resubmitted to *Journal of Health Economics*

Indoor tanning beds (ITBs) emit harmful UV light at high intensity and have been classified as carcinogenic to humans by the World Health Organization since 2009. In that same year, more one in three white high school girls reported using an indoor tanning bed; by 2019 that figure had fallen to fewer than one in ten. We are the first to study the role of state laws prohibiting youths from indoor tanning on many tanning-related outcomes using difference-in-differences models and staggered adoption of ITB prohibitions across states. We find that youth ITB prohibitions reduced search intensity for tanning-related information and reduced self-reported indoor tanning participation and intensity among teen girls. We also find that youth ITB prohibitions significantly reduced the size of the indoor tanning market by increasing tanning salon closures and reducing tanning salon sales. We find little evidence of unintended consequences on other youth risky behaviors, and in fact we find evidence that youth ITB prohibitions increased sun protective behaviors. Our results demonstrate the effectiveness of youth ITB prohibitions and provide novel evidence on how public health policies affect private market outcomes.

“‘There She Is, Your Ideal’: Negative Social Comparisons and Health Behaviors,” with Christopher S. Carpenter, Revisions Requested at *Journal of Human Resources*

We provide novel evidence on the role of negative social comparisons in population health behaviors by exploiting variation in Miss America and Miss USA beauty pageant winners. We show that there was more front-page newspaper coverage and more pageant-related internet search behavior following a home-state win. Teen girls and pageant-aged women with home-state winners were more likely to report that they were trying to lose weight, and pregnant women gained less gestational weight. We do not detect meaningful changes for teen boys, young adult men, or older women for whom social comparisons were plausibly less salient.

“Mandated School-Based BMI Assessments and Health Behaviors” Revisions Requested at *Journal of Policy Analysis and Management*

I provide novel evidence on how youth-targeted anti-obesity policies affect health behaviors. From 2003 to 2017, 24 states passed laws requiring schools to perform annual Body Mass Index (BMI) assessments on students. Though intended to correct imperfect information by providing teens and their parents with a report stating whether the child is overweight or obese, there is concern that these assessments may harm self-esteem. Using the 1991-2017 National and State Youth Risk Behavior Surveys, I show that mandated school-based BMI assessments increased the likelihood that teen girls described themselves as overweight and reported that they were trying to lose weight. These changes were driven by overweight and obese girls, suggesting that the assessments were successful in improving awareness about BMI status, though I cannot say if the change was due to children or parents reviewing the assessments or changes in weight-related social pressure. I do not detect meaningful changes in calorie-expending behaviors, calorie-limiting behaviors, or BMI, indicating that combating childhood obesity will require more than correcting imperfect information about clinical weight thresholds.

“Market Responses to Vaccine Recommendations” with Laura E. Henkhaus and Emily C. Lawler

We provide novel evidence on how pharmaceutical companies and consumers respond to government-endorsed health recommendations. In 2014, the Advisory Committee on Immunization Practices recommended that elderly adults receive the pneumococcal vaccine Prevnar 13. Using a difference-in-differences identification strategy, we first show that the manufacturer (Pfizer) responded by increasing direct-to-consumer advertising. We then show that the recommendation increased Prevnar 13-related information-seeking behavior and pneumococcal vaccination. Overall, our analyses suggest that the recommendation directly increased Medicare Part B drug expenditures by over \$14 per beneficiary and Pfizer product sales by approximately \$1 billion annually, with little to no observable health benefits.

“Information Shocks and Health Behaviors: Evidence from Breast Cancer Screening Recommendations” with Emily C. Lawler

We provide novel evidence on how health care decision-making responds to changes in information by studying the effects of the United States Preventive Service Task Force’s 2009 decision to stop recommended mammogram screenings for women aged 40-49. Using a difference-in-differences identification strategy, we find that after the update women aged 40-49 were 1.4-4.9 percentage points less likely to report ever receiving a mammogram than their 50-59-year-old counterparts. We also identify large spillovers onto women aged 35-39: post-2009 they were significantly less likely to receive a mammogram recommendation or a mammogram. Additional analyses suggest the revision reduced overdiagnosis of early-stage tumors.

### **Work in Progress**

“Public Funding and Disease Prevention: Evidence from Funding Awards to Promote HPV Vaccination” with Christopher S. Carpenter and Emily C. Lawler

“Sanctuary City Policies and Infant Health” with Catalina Amuedo-Dorantes and Yang Song

### **Research Presentations**

2023 Electronic Health Economics Colloquium\*

2022 Southern Economic Association (× 2), Association for Public Policy Analysis and Management, Rensselaer Polytechnic Institute, NBER Summer Institute Health Care Program, American Society of Health Economists (× 3), NBER Program on Children, University of Massachusetts Amherst, University of Oklahoma, Fordham University, University of Memphis, University at Buffalo, University of Washington CHOICE Institute, Vanderbilt University, Haverford College

2021 NBER Health Economics Program, Southern Economic Association, Johns Hopkins Bloomberg School of Public Health, Canadian Health Economics Study Group, University of Tennessee Health Science Center, Carleton University, Mathematica, American Society of Health Economists, Vanderbilt University

2020 Association for Public Policy Analysis and Management, Eastern Economic Association, San Diego State University CHEPS, Vanderbilt University Health Policy, Vanderbilt University, Population Association of America

\* = Scheduled

### **Honors and Fellowships**

APPAM Dissertation Award Honorable Mention, 2021

Walter B. Noel Dissertation Fellowship, 2020  
Center for Growth and Opportunity, 2019  
Household International Award for Best Research Paper, 2019  
Kirk Dornbush Summer Research Grant, Vanderbilt University, 2017  
Graduate Student Fellowship, Vanderbilt University, 2016-2021  
Center for Public Economics Scholarship, San Diego State University, 2016  
McCuen Endowed Economics Scholarship, San Diego State University, 2014-2016  
Chaos Society Scholarship, Washington and Lee University, 2010-2014  
Johnston Scholarship, Washington and Lee University, 2010-2014

### **Teaching Experience**

University of Massachusetts Amherst  
Managerial Economics (RES-ECON 428): Spring 2023 (2)  
Washington and Lee University  
Applied Statistics (INTR 202): Winter 2020, Fall 2020 (2), Winter 2021 (2)  
Vanderbilt University  
Principles of Macroeconomics (ECON 1010): Summer 2019  
San Diego State University  
Principles of Economics (ECON 101) Fall 2015 (2), Spring 2016

### **Professional Affiliations**

American Economic Association  
American Society of Health Economists  
Association for Public Policy Analysis and Management  
Special Sworn Status, US Census Bureau  
Southern Economic Association

### **Referee Service**

*American Journal of Health Economics, AJPM: Focus, BMC Public Health, Health Economics (2), Industrial Relations: A Journal of Economy and Society, International Migration Review, Journal of Agricultural and Resource Economics, Journal of Health Economics (7), Journal of Human Resources (2), Journal of Policy Analysis and Management, Journal of the Royal Statistical Society-Series A, North American Actuarial Journal*

### **Conference Session Organizer**

American Society of Health Economists (2022 × 2), Southern Economic Association (2022 × 2)

### **Conference Session Chair**

Allied Social Science Association (2022, 2023), American Society of Health Economists (2022), Southern Economic Association (2022)

### **Conference Discussant/Abstract Reviewer**

Allied Social Science Association (2023), American Society of Health Economists (2022 × 2, 2023), Southern Economic Association (2019, 2022)

### **Other Conference Attendance**

NBER Health Economics Program (05/2019, 12/2020, 07/2021, 07/2022, 12/2022), Association for Public Policy Analysis and Management (2022), Allied Social Science Association (2021), NBER: Improving Health Outcomes for an Aging Population (2021), Indiana University – Risky Health Behaviors Mini Conference (2019, 2021), American Society of Health Economists (2018, 2019, 2020),

Southeastern Health Economics Study Group (2017, 2018, 2019), Southern Economic Association (2015, 2016)

### Other Service

University of Massachusetts Amherst Undergraduate Studies Committee, Fall 2022  
University of Massachusetts Amherst Computers Committee, Spring 2023  
ASHEcon Newsletter Coeditor, 2022 - *Present*  
UMass Amherst Health Economics Work-in-Progress Series Organizer, 2022 - *Present*

### Advising

Sparshi Srivastava '24 (committee member; in progress)

### Media Coverage

Boston Globe, August 22, 2022, *Fear and Loathing of Immigrants Drives License Ballot Question*  
(<https://www.bostonglobe.com/2022/08/22/opinion/fear-loathing-immigrants-drives-license-ballot-question>)  
Tradeoffs, January 14, 2022, *How Immigration Enforcement Can Affect Newborns' Health*  
(<https://tradeoffs.org/2022/01/14/immigration-undocumented-newborns-infants>)  
Tradeoffs, May 20, 2021, *Calling the Shots: Should Employers Mandate the COVID Vaccines?*  
(<https://tradeoffs.org/2021/05/20/calling-the-shots-should-employers-mandate-covid-vaccines>)

### References

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