### **CRAIG GARTHWAITE**

Strategy Department
Kellogg School of Management, Northwestern University
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#### **APPOINTMENTS**

Kellogg School of Management, Northwestern University

Professor of Strategy, 2020 - Present

Herman R. Smith Research Professor in Hospital and Health Services, 2017-Present

Director, Program on Healthcare at Kellogg, 2016 - Present

Associate Professor of Strategy (with tenure), 2016 – 2020

Assistant Professor of Strategy, 2010 - 2016

Senior Lecturer and Donald P. Jacobs Scholar in Management and Strategy, 2009 - 2010

National Bureau of Economic Research

Research Associate, 2016-Present

Faculty Research Fellow, 2011-2016

Institute for Policy Research, Northwestern University

Faculty Associate, 2015 - Present

## **EDUCATION**

Ph.D. Economics, University of Maryland at College Park, 2009

M.A. Economics, University of Maryland at College Park, 2008

M.P.P Gerald R. Ford School of Public Policy at the University of Michigan, 2001

B.A. Political Science, cum laude, University of Michigan, 2000

### PUBLIC SERVICE

Member, Congressional Budget Office Panel of Healthcare Advisers (2020 – Present)

Member, Congressional Budget Office Technical Review Panel for the Health Insurance Simulation Model (2018-2020)

Member, Health Affairs Council on Spending and Value (2018-Present)

Testimony, United States House of Representatives, 2018

- House Judiciary Committee, Subcommittee on Regulatory Reform, Commercial and Antitrust Law: "Competition in the Pharmaceutical Supply Chain: The Proposed Merger of CVS Health and Aetna"

Testimony, United States House of Representatives, 2019

- House Judiciary Committee, Subcommittee on Regulatory Reform, Commercial and Antitrust Law: "Diagnosing the Problem: Exploring the Effects of Consolidation and Anticompetitive Conduct in Health Care Markets"

Testimony, United States Senate, 2019

- Senate Judiciary Committee, Subcommittee on Antirust, Competition Policy, and Consumer Rights: "Your Doctor/Pharmacist/Insurer Will See You Now: Competitive Implications of Vertical Consolidation in the Healthcare Industry"

Testimony, United States House of Representatives, 2019

- House Education and Labor Committee, Subcommittee on Health, Education, Labor and Pensions: "Making Health Care More Affordable: Lowering Drug Prices and Increasing Transparency"

#### ACADEMIC PUBLICATIONS

"The Impact of Early Discharge Laws on the Health of Newborns," (with William Evans and Heng Wei), *Journal of Health Economics*, 2008, 27(4): 843-870.

"The Economic Benefits of Pharmaceutical Innovations: The Case of Cox-2 Inhibitors," *American Economic Journal: Applied Economics*, 2012, 4(3): 116-137.

"Empirical Evidence on the Value of Pharmaceuticals," (with Mark Duggan), in *The* [Oxford] Handbook of the Economics of the Biopharmaceutical Industry: Oxford University Press: Oxford, 2012: 463-492.

"The Doctor Might See You Now: The Supply Side Effects of Public Health Insurance Expansions." *American Economic Journal: Economic Policy* 2012, 4(3): 190-217.

"Heterogeneity in the Benefits of Greater Treatment Intensity" (with William Evans), *The Review of Economics and Statistics*, 2012, 94(3): 635-649.

"Can Celebrity Endorsements Affect Political Outcomes: Evidence from the 2008 US Democratic Presidential Primary," (with Tim Moore), *The Journal of Law, Economics, and Organizations*, 2013, 29(2): 355-384.

"Demand Spillovers, Combative Advertising, and Celebrity Endorsements," *American Economic Journal: Applied Economics*, 2014, 6(2): 76-104.

"Giving Mom a Break: The Effect of Higher EITC Payments on Maternal Health" (with William Evans), *American Economic Journal: Economic Policy*, 2014, 6(2): 258-290.

"Public Health Insurance, Labor Supply, and Employment Lock," (with Tal Gross and Matthew Notowidigdo), *Quarterly Journal of Economics*, 2014, 129(2): 653-696.

"Health Spending Slowdown Is Mostly Due to Economic Factors, Not Structural Change in the Health Care Sector" (with David Dranove and Christopher Ody), *Health Affairs*, 2014, 33(8): 1399-1406.

"The Economic Downturn and its Lingering Effects Reduced Medicare Spending Growth by \$4 Billion In 2009–12," (with David Dranove and Christopher Ody), *Health Affairs*, 2015, 34(8): 1368-1375.

- "Investment Subsidies and the Adoption of Electronic Medical Records in Hospitals." (with David Dranove, Chris Ody, and Bingyang Li), *Journal of Health Economics*, 2015, 44: 309-19.
- "The Market Impacts of Product Patents in Developing Countries," (with Mark Duggan and Aparajita Goyal), American Economic Review, 2016, 106(1): 99-135
- "The Black/White Educational Gap, Stalled Progress, and the Long Term Consequences of the Emergence of Crack Markets," (with William Evans and Timothy J. Moore), *The Review of Economics and Statistics*, 2016, 98(5): 832-847.
- "Affordable Care Act's Medicaid Expansion Led to Substantial Decreases in Uncompensated Care but Levels and Many Hospitals Remain High," (with David Dranove and Christopher Ody), *Health Affairs*, 2016, 35(8): 1471-1479.
- "How do Hospitals Respond to Negative Financial Shocks? The Impact of the 2008 Stock Market Crash (with David Dranove and Christopher Ody)," *The RAND Journal of Economics*, 2017, 48(2): 485–525.
- "Insurance Expansion and Hospital Emergency Department Access: Evidence from the Affordable Care Act," (with John Graves, Tal Gross, and Matthew Notowidigdo), *Annals of Internal Medicine*, Feb 7 2017, 166(3):172-179
- "Success and Failure in the Insurance Exchanges (with John Graves)," *New England Journal of Medicine*, March 9, 2017, 376(10):907-910
- "The Economics of Indication Based Pricing (with Amitabh Chandra)," *New England Journal of Medicine*, July 2017, 377(2):103-106.
- "Hospitals as Insurers of Last Resort," (with Tal Gross and Matthew Notowidigdo), *American Economic Journal: Applied Economics*, 2018, 10(1): 1-39.
- "The CVS-Aetna Merger: Another Large Bet on the Changing U.S. Health Care Landscape," (with Austin Frakt), *Annals of Internal Medicine*, January 9, 2018.
- "The Orphan Drug Act at 35: Observations and an Outlook for the Twenty-First Century," (with Nicholas Bagley, Benjamin Berger, Amitabh Chandra, and Ariel D. Stern) in *Innovation Policy and the Economy*, 2018, Volume 19, pages 97-137, National Bureau of Economic Research, Inc.
- "Characterizing the Drug Development Pipeline for Precision Medicine, (with Chandra, Amitabh, Garthwaite, Craig and Stern, Ariel Dora Stern), *Economic Dimensions of Personalized and Precision Medicine*, 2018, National Bureau of Economic Research, Inc.
- "It's Time to Reform the Orphan Drug Act," (with Nicholas Bagley, Amitabh Chandra, and Ariel D. Stern), *NEJM Catalyst*, Dec 19, 2018.

"Economic Principles for Medicare Reform (with Amitabh Chandra)," *ANNALS of the American Academy of Political and Social Science*, 2019, 686(1): 63-92.

"All Medicaid Expansions Are Not Created Equal: The Geography and Targeting of the Affordable Care Act," *Brookings Papers on Economic Activity*, Fall 2019 (with John Graves, Tal Gross, Zeynal Karaca, Victoria Marone, and Matthew Notowidigdo)

"The Economics of Medicare for All," book chapter in *Maintaining the Strength of American Capitalism* published by the *Aspen Economic Strategy Group*, eds. Melissa Kearney and Amy Ganz, December 2019.

"Insurance access and demand response: Price and welfare implications," (with David Dranove and David Besanko), *Journal of Health Economics*, 2020, 73.

# **WORKING PAPERS**

"Who Profits From Amateurism: Rent-Sharing in Modern College Sports," NBER Working Paper #27734 (with Jordan Keener Matthew J. Notowidigdo Nicole F. Ozminkowski)

"Endogenous Quality Investments in the US Hospital Market," NBER Working Paper #27440 (with Chris Ody and Amanda Starc)

"The Impact of Private Contracting on Healthcare for the Old and Sick: Evidence from California's Medicaid Program" (with Mark Duggan and Adelina Wang)

"Reinsuring the Insurers of Last Resort" (with Chris Ody and David Dranove)

"Expected Profits and The Scientific Novelty of Innovation," NBER Working Paper #27093 \, (with David Dranove and Manuel Hermosilla)

"The Opportunities and Limitations of Monopsony Power in Healthcare: Evidence from the United States and Canada," July 2019 (with Jillian Chown, David Dranove, and Jordan Keener)

Guns and Violence: The Enduring Impact of Crack Cocaine Markets on Young Black Males, NBER Working Paper #24819, (with Bill Evans and Timothy J. Moore)

Pharmaceutical Profits and the Social Value of Innovation, NBER Working Paper #20212, (with David Dranove and Manuel Hermosilla)

## **OTHER PUBLICATIONS**

The Impact of the ACA's Medicaid Expansion on Hospitals' Uncompensated Care Burden and the Potential Effects of Repeal (with David Dranove and Christopher Ody), *Commonwealth Fund Issue Brief*, May 2017.

"A Floor and Trade Proposal for Hospital Charity Care," The Hamilton Project working

paper.

#### CASES

Wildcat Physical Therapy (with Dylan Duffy), 2019

Evaluating Vertical Integration at AB-Inbev Across the Globe (with Sarit Markovich, Eugenio Gomez A Latorre, and Andrea Meyer), 2018, Kellogg 5-118-002)

Consumer Cost Sharing in Health Insurance (with Chris Ody), 2018

Quality Provision in the Nursing Home Industry (with Chris Ody), 2017

Renal Care in the United States, 2020

Sovaldi: Pricing a Breakthrough Drug (with Meghan Busse), 2015

The Global Aircraft Manufacturing Industry, 2002-2011 (with Jen Brown), 2012. Kellogg Case #5-312-505.

Starbucks: A Story of Growth, (with Jen Brown and Meghan Busse), 2011. Kellogg Case #5-211-259.

## PERMANENT WORKING PAPERS

"The Effect of In-Utero Conditions on Long Term Health: Evidence from the 1918 Spanish Flu Pandemic," April 2008 (First Draft, July 2007).

### **TEACHING**

Core Business Strategy (STRT 431), Kellogg School of Management, 2009-Present Foundations of Strategy, Kellogg-HKUST EMBA, 2016-Present Strategy Frameworks Kellogg EMBA, 2017-Present Healthcare Strategy (STRT 443), Kellogg School of Management, 2017-Present Healthcare Strategy (STRTX 945), Kellogg School of Management EMBA, 2017-Present

# HONORS AND AWARDS

Kellogg Chairs' Core Course Teaching Award, 2019
Lavengood Professor of the Year Finalist, 2019
Lavengood Professor of the Year Finalist, 2018
Kellogg Faculty Impact Award, Healthcare Strategy, 2018
Sidney J. Levy Teaching Award for Electives, 2017
Poets and Quants 40 Best Under 40 Professors, 2015
Kellogg Faculty Impact Teaching Award, Business Strategy, 2012
Kellogg Faculty Impact Teaching Award, Business Strategy, 2012

Kellogg Chairs' Core Course Teaching Award, 2011 International Institute of Public Finance (IIPF) Young Economists Award, 2011 Kellogg Faculty Impact Teaching Award, Business Strategy, 2010 University of Maryland Third Year Paper Fellowship

### **INVITED PRESENTATIONS**

- 2008: University of Notre Dame
- 2009: Chicago Booth Graduate School of Business
- 2010: University of Wisconsin-Madison, Dartmouth College, University of Notre Dame
- 2011: AEA Annual Meeting, University of Illinois-Chicago, Olin Business School at Washington University, Harris School of Public Policy at the University of Chicago, Indiana University SPEA, National Tax Association Annual Meeting, AcademyHealth Research Insights Meeting
- 2012: AEA Annual Meeting (Presenter and Discussant), Society of Labor Economists Annual Meeting, NBER Summer Institute, University of Illinois Urbana-Champaign, University of California-Davis, Columbia University
- 2013: University of Chicago Health Economics Workshop, University of British Columbia, University of California-San Diego, University of Kentucky, Texas A&M University, Wharton School of the University of Pennsylvania, University of Maryland, Brookings Institution, UC-Davis Poverty Center
- 2014: AEA Annual Meeting, Northwestern Law School, RAND Corporation, Rice University/University of Houston, HDMS User Forum, Bates/White Life Science Conference, Vanderbilt University, University of Michigan RWJF Scholars, Northwestern University Economics Department
- 2015: AEA Annual Meeting, Stanford University, University of California-Irvine, MIT/BU Health Economics Seminar, Syracuse University, NBER Summer Institute, UT-Austin, University of Maryland
- 2016: Harris School of Public Policy at the University of Chicago, Owen School of Management, Vanderbilt University.
- 2017: National Tax Association Annual Meeting
- 2018: University of Georgia, Auburn University, Harvard University, Boston University, American Enterprise Institute, University of Southern California
- 2019: American Medical Association, Ohio State University, University of Louisville, Emory University, Aspen Ideas Festival, Aspen Economic Strategy Group, University of Utah, Aspen Ideas Festival, Aspen Ideas Health Festival, Aspen Economic Strategy Group
- 2020: Harris School of Public Policy at the University of Chicago

## **ACADEMIC ACTIVITIES**

Co-Editor, *Journal of Public Economics*, (2016 – 2020)

Reviewer: American Economic Review, Quarterly Journal of Economics; Journal of Political Economy; Econometrica; Review of Economic Studies; New England Journal of Medicine, The Journal of Public Economics; American Economic Journal: Economic Policy; Health Affairs; The Review of Economics and Statistics; The Journal of Industrial Economics; The Journal of Health

Economics; The Journal of Human Resources; Journal of Policy Analysis and Management; International Journal of Industrial Organization; Health

Economics; Social Science and Medicine; Economic Inquiry

# **PAST EMPLOYMENT**

Employment Policies Institute, Washington, DC

Director of Research and Chief Economist, 2003-2005

Public Sector Consultants, Lansing, MI

Economist, 2002-2003

# **OUTSIDE ACTIVITIES**

Affiliated Consultant, Analysis Group (2018-Present)