

DAVID POWELL

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EMPLOYMENT

Senior Economist, RAND Corporation, 2018 – present
Professor, Pardee RAND Graduate School, 2011 – present
Full Economist, RAND Corporation, 2014 – 2018
Associate Economist, RAND Corporation, 2009 – 2014

OTHER APPOINTMENTS

Associate Editor, *Journal of Health Economics*, 2020 – present

EDUCATION

Ph.D., Economics, MIT, 2009
Committee: Jim Poterba, Jonathan Gruber, Jerry Hausman
A.B., Applied Mathematics, Harvard, 2002

RESEARCH INTERESTS

Public and Labor Economics, Health Economics, Applied Econometrics

PUBLICATIONS – *ECONOMICS*

Abby Alpert, Bill Evans, Ethan Lieber, and David Powell (2022). “Origins of the Opioid Crisis and Its Enduring Impacts,” forthcoming at *The Quarterly Journal of Economics*

David Powell (2021). “Synthetic Control Estimation Beyond Case Studies: Does the Minimum Wage Reduce Employment?,” accepted at *Journal of Business & Economic Statistics*.

David Powell and Dana Goldman (2021). “Disentangling Moral Hazard and Adverse Selection in Private Health Insurance,” *Journal of Econometrics*, 222(1): 141-160.

Sujeong Park and David Powell (2021). “Is the Rise in Illicit Opioids Affecting Labor Supply and Disability Claiming Rates?,” *Journal of Health Economics*, 76: 102430.

David Powell and Rosalie Liccardo Pacula (2021). “The Evolving Consequences of OxyContin Reformulation on Drug Overdoses,” *American Journal of Health Economics*, 7(1): 41-67.

David Powell (2020). “Quantile Treatment Effects in the Presence of Covariates,” *Review of Economics and Statistics*, 102(5): 994-1005.

Layla Parast, Priscillia Hunt, Beth Ann Griffin, and David Powell (2020). “When is a Match Sufficient? A Score-based Balance Metric for the Synthetic Control Method,” *Journal of Causal Inference*, 8(1): 209-228.

- Abby Alpert and David Powell (2020). “Estimating Intensive and Extensive Tax Responsiveness,” *Economic Inquiry*, 58(4): 1855-1873.
- David Powell, Rosalie Liccardo Pacula, and Erin Taylor (2020). “How Increasing Medical Access to Opioids Contributes to the Opioid Epidemic: Evidence from Medicare Part D,” *Journal of Health Economics*, 71: 102286.
- David Powell (2020). “Does Labor Supply Respond to Transitory Income? Evidence from the Economic Stimulus Payments of 2008,” *Journal of Labor Economics*, 38(1): 1-38.
- David Powell (2019). “The Distortionary Effects of the Health Insurance Tax Exclusion,” *American Journal of Health Economics*, 5(4): 428-464.
- David Powell and Seth Seabury (2018). “Medical Care Spending and Labor Market Outcomes: Evidence from Workers’ Compensation Reforms,” *American Economic Review*, 108(10): 2995-3027.
- Abby Alpert, David Powell, and Rosalie Liccardo Pacula (2018). “Supply-Side Drug Policy in the Presence of Substitutes: Evidence from the Introduction of Abuse-Deterrent Opioids,” *American Economic Journal: Economic Policy*, 10(4): 1-35.
- David Powell, Rosalie Liccardo Pacula, and Mireille Jacobson (2018). “Do Medical Marijuana Laws Reduce Addiction and Deaths Related to Pain Killers?” *Journal of Health Economics*, 58: 29-42.
- Fabian Duarte, Srikanth Kadiyala, Samuel H. Masters, and David Powell (2017). “The Effect of the 2009 Influenza Pandemic on Absence from Work,” *Health Economics*, 26(12): 1682-1695.
- Rosalie Liccardo Pacula, David Powell, Paul Heaton, and Eric Sevigny (2015). “Assessing the Effects of Medical Marijuana Laws on Marijuana Use: The Devil is in the Details,” *Journal of Policy Analysis and Management*, 34(1): 7-31.
- David Powell and Joachim Wagner (2014). “The Exporter Productivity Premium along the Productivity Distribution: Evidence from Quantile Regression with Nonadditive Firm Fixed Effects,” *Review of World Economics*, 150(4): 763-85.
Reprinted in *Microeconomic Studies of Firms’ Imports and Exports: Advanced Methods of Analysis and Evidence from German Enterprises*
- David Powell and Hui Shan (2012). “Income Taxes, Compensating Differentials, and Occupational Choice: How Taxes Distort the Wage-Amenity Decision.” *American Economic Journal: Economic Policy*, 4(1): 224-47.
- David Powell (2012). “Compensating Differentials and Income Taxes: Are the Wages of Dangerous Jobs More Responsive to Income Tax Changes than the Wages of Safe Jobs?” *Journal of Human Resources*, 47(4): 1023-54.

PUBLICATIONS – MEDICAL / DRUG POLICY

Rahi Abouk and David Powell (2021). “Can Electronic Prescribing Mandates Reduce Opioid-Related Overdoses?” *Economics and Human Biology*, 42: 101000.

Beth Ann Griffin, Megan S. Schuler, Elizabeth A. Stuart, Stephen Patrick, Elizabeth McNeer, Rosanna Smart, David Powell, Bradley Stein, Terry Schell, and Rosalie Liccardo Pacula (2021). “Variation in Performance of Commonly Used Statistical Methods for Estimating Effectiveness of State-Level Opioid Policies on Opioid-Related Mortality”, accepted at *BMC Medical Research Methodology*.

Jonathan Cantor, David Powell, Aaron Kofner, and Bradley D. Stein (2021). “Population-based estimates of geographic accessibility of medication for opioid use disorder by substance use disorder treatment facilities from 2014 to 2020.” *Drug and Alcohol Dependence*, 229: 109107.

Bradley D. Stein, Rosanna Smart, Christopher M. Jones, Flora Sheng, David Powell, and Mark Sorbero (2021). “Individual and Community Factors Associated with Naloxone Co-Prescribing Among Long-Term Opioid Patients: A Retrospective Analysis.” *Journal of General Internal Medicine*: 1-6.

Megan S. Schuler, Sara E. Heins, Rosanna Smart, Beth Ann Griffin, David Powell, Elizabeth A. Stuart, Bryce Pardo, Sierra Smucker, Stephen W. Patrick, Rosalie Liccardo Pacula, and Bradley D. Stein (2020). “The State of the Science in Opioid Policy Research.” *Drug and Alcohol Dependence*, 214(1): 108137.

Rahi Abouk, Rosalie Liccardo Pacula, and David Powell (2019). “Association Between State Laws Facilitating Pharmacy Distribution of Naloxone and Risk of Fatal Overdose.” *JAMA Internal Medicine*, 179(6): 805-811.

David Powell, Abby Alpert, and Rosalie Liccardo Pacula (2019). “A Transitioning Epidemic: How the Opioid Crisis is Driving the Rise in Hepatitis C.” *Health Affairs*, 38(2): 287-294.

BOOK CHAPTERS and OTHER PUBLICATIONS

Rosalie Liccardo Pacula and David Powell (2018). “A Supply-Side Perspective on the Opioid Crisis.” *Journal of Policy Analysis and Management*, 37(2): 438-446.

David Powell and Rosalie Liccardo Pacula (2017). “Prescription Opiates and Opioid Abuse: Regulatory Efforts to Limit Diversion from Medical Markets to Black Markets in the United States” in *Dual Markets: Comparative Approaches for Regulation*, edited by E. Savona and M.A.R. Kleiman. New York: Springer.

WORKING PAPERS

“The Value of Working Conditions in the United States and Implications for the Structure of Wages” (with Nicole Maestas, Kathleen J. Mullen, Till von Wachter, and Jeffrey Wenger), revisions requested by *American Economic Review*

“The Effect of Population Aging on Economic Growth, the Labor Force and Productivity” (with Nicole Maestas and Kathleen J. Mullen), revisions requested by *American Economic Journal: Macroeconomics*

“How Do Alternative Work Arrangements Affect Income Risk After Workplace Injury?” (with Nicholas Broten and Michael Dworsky), revisions requested by *Journal of Public Economics*

“Quantile Estimation with Nonadditive Fixed Effects”, revisions requested by *Empirical Economics*

“The Labor Supply Consequences of the Opioid Crisis”

“Understanding the Demographics of the Opioid Overdose Death Crisis”

“Imperfect Synthetic Controls”, *under review*

“Panel Data Inference with Dependent Clusters”

“Pain Management and Work Capacity: Evidence from Marijuana Legalization” (with Rahi Abouk, Keshar Ghimire, and Johanna Catherine Maclean), *under review*

PEER-REVIEWED REPORTS

Nicole Maestas, Kathleen J. Mullen, David Powell, Till von Wachter, and Jeffrey B. Wenger (2017). “Working Conditions in the United States: Results of the 2015 American Working Conditions Survey,” https://www.rand.org/pubs/research_reports/RR2014.html.

STATA PACKAGES

Matthew Baker, David Powell, and Travis Smith (2016). “QREGPD: Stata module to perform quantile regression for panel data.”

Matthew Baker, David Powell, and Travis Smith (2016). “GENQREG: Stata module to perform Generalized Quantile Regression.”

TEACHING

Microeconomics I (PhD), Pardee RAND Graduate School, Santa Monica, CA, 2011-2015
Research Methods in Empirical Economics (PhD), Pardee RAND Graduate School, Santa Monica, CA, 2016

INVITED CONFERENCES AND SEMINARS (since 2010)

2021: Center for Health Economics & Policy Studies at San Diego State University
Urban Institute

Southeastern Health Economics Study Group (discussant)

Center for Causal Inference Symposium (discussant)

Conference of the American Society of Health Economists

North American Summer Meeting of the Econometric Society

Centers for Disease Control and Prevention

University of Pennsylvania Health Policy & Center for Health Incentives and Behavioral Economics

Society of Labor Economists Annual Conference

American Economic Association Annual Meeting

2020: APPAM Fall Research Conference

Conference of the American Society of Health Economists

American Economic Association Annual Meeting (discussant)

2019: Population Health Science Research Workshop (University of Pennsylvania)

Federal Reserve Board
 Southern Health Economics Study Group (discussant)
 Annual Health Economics Conference (discussant)
 Centers for Disease Control and Prevention (Atlanta)
 SSA Retirement and Disability Research Consortium (Washington D.C.)
 NBER Summer Institute Crime Workshop
 Conference of the American Society of Health Economists
 Midwest Health Economics Conference (University of Michigan)
 Uber (San Francisco)
 University of Southern California (Schaeffer Center)
 Texas Economics of Crime Workshop (discussant)
2018: American Economic Association Annual Meeting (discussant)
 Temple University, Department of Economics
 Conference of the American Society of Health Economists (Emory)
2017: National Tax Association Annual Conference on Taxation
 Annual Health Economics Conference (USC)
 Annual Health Econometrics Workshop (Washington University)
 Conference in Honor of Daniel McFadden (USC)
 NBER Summer Institute Health Economics Workshop
 NBER Summer Institute Crime Workshop
 Midwest Health Economics Conference (University of Minnesota)
 Michigan Retirement Research Center Researcher Workshop (University of Michigan)
2016: University of California, Irvine, Department of Economics
 Michigan Retirement Research Center Researcher Workshop (University of Michigan)
 Southern California Conference in Applied Microeconomics (discussant only)
 Conference of the American Society of Health Economists (University of Pennsylvania)
 North American Summer Meeting of the Econometric Society (University of Pennsylvania)
 Empirical Microeconomics Workshop (Banff)
 The Balanced Recipe Project Workshop (Milan)
 APPAM Fall Research Conference (Washington D.C.)
 National Tax Association Annual Conference on Taxation (Baltimore)
2015: American Economic Association Annual Meeting
 Annual Health Econometrics Workshop (University of Hawaii)
 NBER Spring Meeting Health Care Workshop
 University of California, Irvine, Department of Economics
 NBER Summer Institute Crime Workshop
 All-California Labor Economics Conference (UCLA)
 Michigan Retirement Research Center Researcher Workshop (University of Michigan)
 Social Security Administration
 Center for Causal Inference Seminar (RAND Corporation)
 International Comparison Workshop (discussant only)
2014: American Economic Association Annual Meeting
 Conference of the American Society of Health Economists (USC)
 Annual Health Econometrics Workshop (University of Toronto)
 Annual Health Economics Conference (Rice University)
 Midwest Health Economics Conference (University of Illinois at Urbana-Champaign)
 Southern California Conference in Applied Microeconomics (Claremont McKenna College)
 NBER Summer Institute Aging Workshop
 Stata Conference
 Michigan Retirement Research Center Researcher Workshop (University of Michigan)
 University of Southern California, Schaeffer Center for Health Policy and Economics
 University of Nevada, Reno, Department of Economics

Drug Policy Research Center Seminar (RAND Corporation)
2013: American Economic Association Annual Meeting
 Southern California Conference in Applied Microeconomics (Claremont McKenna College)
 North American Summer Meeting of the Econometric Society (USC)
 APPAM Fall Research Conference
 National Tax Association Annual Conference on Taxation
 Addiction Health Services Research Conference
 Michigan Retirement Research Center Researcher Workshop (University of Michigan)
2012: American Economic Association Annual Meeting
 North American Summer Meeting of the Econometric Society (Northwestern University)
 Annual Joint Conference of the Retirement Research Consortium (Washington D.C.)
 American Society of Criminology Annual Meeting
 Michigan Retirement Research Center Researcher Workshop (University of Michigan)
2011: Western Economic Association International Annual Conference
 Michigan Retirement Research Center Researcher Workshop (University of Michigan)
2010: Congress of the European Economic Association (University of Glasgow)

AWARDS RECEIVED

2004-2007 National Science Foundation Graduate Fellowship
 2007-2009 NBER Aging and Health Pre-Doctoral Fellowship
 2016 RAND Emerging Policy Research and Methods Spotlight Award for Innovation

GRANTS (Selected)

Co-Principal Investigator – 2021-2023 National Institute on Drug Abuse, “Changes to which Drugs and Drug Combinations are Prescribed in Response to Opioid Supply-Side Policies?”: \$478,000

Site Principal Investigator – 2020-2022 National Institute on Drug Abuse, “Assessing the Impact of Opioid Prescription Duration Limits”: \$98,000

Co-Investigator – 2018-2020 National Institute of Child Health and Human Development, “Assessing Factors in Birth Outcomes”: \$506,000

Co-Principal Investigator – 2019-2023 Sloan Foundation, “Can Firms Offer Working Conditions that Older Workers Want?”: \$599,000

Co-Principal Investigator – 2019-2022 Social Security Administration, “Firm Willingness to Offer Bridge Employment”: \$95,000

Principal Investigator – 2019-2021 National Institute on Drug Abuse, “Can Mandatory Electronic Prescriptions Reduce Opioid Abuse?”: \$467,000

Principal Investigator – 2018-2023 National Institute on Drug Abuse, “Measuring the Presence of Opioid Markets in Local Communities and Their Impacts on Harm”: \$1,420,000

Site Principal Investigator 2018-2022 National Institute on Aging, “Impact of POLST Adoption of Financial Incentives on Care Receipt”: \$300,000

Principal Investigator – 2018-2021 Centers for Disease Control, “Improving Naloxone Access and Its Effects on Drug Abuse and Overdoses”: \$1,900,000

Co-Principal Investigator – 2018-2020 Social Security Administration, “The Long-Term Effects of Workplace Injuries on Labor Force Exit, DI Eligibility, and Early Retirement”: \$94,700

Principal Investigator – 2018-2019 Social Security Administration, “Will the Rise in Heroin and Fentanyl Abuse Affect SSDI and SSI Application Rates?": \$115,000

Principal Investigator – 2017-2019 National Institute on Drug Abuse, “Prescription Drug Abuse, Access to Opioids, and Drug Abuse”: \$525,000

Co-Principal Investigator – 2017-2018 Social Security Administration, “Are Alternative Work Arrangements a Risk Factor for Long-Term Disability and Labor Force Exit?": \$100,000

Co-Principal Investigator – 2016-2018 Social Security Administration, “Understanding Job and Retirement Transitions”: \$75,000

Co-Principal Investigator – 2016-2017 NBER Disability Research Center, “Exploring the Socioeconomic Gradient in Disability Risk”: \$50,000

Co-Investigator – 2014-2018 Sloan Foundation, “Sustainable Work Conditions and Employment of Older Workers”: \$1,120,000

Principal Investigator – 2014-2016 Agency for Healthcare Research and Quality, “How Will the Cadillac Tax Affect Private Insurance Plans?": \$96,000

Principal Investigator – 2014-2015 Michigan Retirement Research Center, “Labor Supply Responses to Changes in the Payroll Tax for Older Individuals”: \$50,000

Principal Investigator – 2014-2015 Bing Center for Health Economics, “The Consequences of the ACA’s Cadillac Tax”

Co-Investigator – 2013-2016 National Institute of Allergy and Infectious Disease, “Implications of the 2004-2005 Influenza Vaccine Shortage”: \$520,000

Co-Investigator – 2012-2014 Sloan Foundation, “The Effect of Labor Demand on Work and Retirement Outcomes”: \$540,000

Principal Investigator – 2012-2013 NIA P30, “How Do Large Wealth Shocks Affect Retirement Behavior?": \$50,000

Principal Investigator – 2012-2013 Bing Center for Health Economics, “Using Earnings to Evaluate the Cost-Effectiveness of Medical Care”

Co-Investigator – 2011-2016 National Institute on Drug Abuse, “Implementation of Medical Marijuana and Its Impact on Health”: \$3,200,000

Principal Investigator – 2011-2012 Social Security Administration, “Tax Elasticity of Labor Earnings for Older Individuals”: \$75,000

Co-Investigator – 2006-2011 National Institute on Drug Abuse, “Economic Cost of Drug Use and Abuse”: \$2,800,000

ADDITIONAL PROFESSIONAL ACTIVITIES

Referee: American Economic Review, Journal of Political Economy, Quarterly Journal of Economics, Journal of Public Economics, Journal of Labor Economics, American Economic Review: Insights, Economic Journal, Journal of Human Resources, American Economics Journal: Economic Policy, Journal of Business & Economic Statistics, Journal of the Royal Statistical Society: Series B, Economic Inquiry, Review of Economics and Statistics, Journal of Applied Econometrics, American Journal of Health Economics, National Tax Journal, Contemporary Economic Policy, Journal of Policy Analysis and Management, Empirical Economics, Journal of the European Economic Association, International Tax and Public Finance, Journal of Law and Economics, Canadian Journal of Economics, Economics of Education Review, Journal of Health Economics, Health Economics, Economics Letters, Energy Economics, International Review of Law and Economics, Annals of Applied Statistics, Forum for Health Economics & Policy, Health Affairs, Communications in Statistics – Simulation and Computation, American Journal of Public Health, Value in Health, Economics Bulletin, Addiction, New England Journal of Medicine, Industrial and Labor Relations Review, Journal of Statistical Computation and Simulation, Sociological Methods and Research

Doctoral Student Advising: Saw Wah (2015), Ervant Maksabedian (2017), Dan Han (2020), Sujeong Park (2021)