

JOSEPH S. SHAPIRO

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PRIMARY AFFILIATION

2019 – Associate Professor, UC Berkeley,
Agricultural & Resource Economics and Department of Economics

OTHER AFFILIATIONS

2024 – Faculty Affiliate, Berkeley Opportunity Lab
2024 – Invited Researcher, J-PAL North America
2022 – Member, Coase Project
2022 – Faculty Affiliate, Clausen Center for International Business & Policy
2019 – Co-Editor, Journal of Public Economics
2018 – Research Associate, National Bureau of Economic Research (NBER)
2018 – Research Associate, Energy Institute at Haas
2022 –2023 Advisor/consultant on trade & environment, European Commission,
Directorate General for Trade
2019 – 2024 Associate Editor, Journal of Political Economy
2018 – 2019 Associate Professor, Agricultural & Resource Economics (ARE), UC Berkeley
2014 – 2018 Faculty Research Fellow, NBER
2013 – 2018 Assistant Professor, Economics, Yale University
2014 – 2018 Courtesy Secondary Appointment, Yale Forestry & Environmental Studies
2015 – 2018 Staff Member, Cowles Foundation
2015 – 2018 Faculty Fellow, Institution for Social and Policy Studies

EDUCATION

Ph.D., Economics, MIT, 2013
M.Sc., Statistics (with Distinction), LSE, 2007
M.Sc., Economics for Development (with Distinction), University of Oxford, 2006
B.A., Economics (with Distinction and Honors in the Ethics in Society Program), Stanford, 2003

FIELDS OF INTEREST

Environmental/Energy, Trade, Public Finance, Health

HONORS AND FELLOWSHIPS

Bakar Fellows Spark Award (\$300,000), 2024
Energy Article of the Year, 2020, American Energy Society. For “The Environmental Bias of Trade Policy.”

Kiel Institute Excellence Award in Global Economic Affairs (Siebert Fellowship), 2019
Alfred P. Sloan Research Fellowship, 2018-2020
Excellence in Refereeing Award, American Economic Review 2014- 2017, 2019, 2021, 2023
Arthur Greer Memorial Prize for Outstanding Scholarly Publication or Research, Yale, 2017
George Webb Medley Prize for Best Performance in M.Sc., Oxford, 2006
Marshall Scholar, 2005-2007
Phi Beta Kappa, Stanford, 2003
Robert M. Golden Medal for Excellence in the Humanities, Stanford, 2003

GRANTS

External Grants

USDA, “The Scope of US Wetland Regulation and its Impacts on Rural Economies,” NIFA 2024-67023-42616, 2024-2027 (\$650,000).
Alfred P. Sloan Foundation, 2024-2027. “Energy, Trade, and Macroeconomics.” With Lint Barrage (\$353,00).
NSF, “Consequences of Environmental Regulation: Evidence from Clean Air Act Thresholds.” SES 2417375, 2024-2027. With Reed Walker (\$486,000).
NIH R01, 1R01AG079914-01. “Drinking Water and the Health of Older Americans.” 2022-2027. Co-I Dave Keiser, Bhash Mazumder, David Molitor (\$4,115,000).
Time-sharing Experiments for the Social Sciences “Why Do Governments Use Inefficient Environmental Policies?” TESS-1559. 2022-2023. With Maximiliano Lauletta, Ro’ee Levy, and Dmitry Taubinsky.
NSF, “The Carbon Footprint of Multinational Production” SES 2214949, 2022-2025. With Natalia Ramondo and Andres Rodriguez-Clare (\$509,000).
Google Cloud Platform Grant, 2022, 2023 (\$10,000)
NSF, “Regulating Untaxable Externalities: Are Vehicle Air Pollution Standards Effective and Efficient?” SES 2117158, 2021-2024. With Arthur van Benthem, James Sallee, and Mark Jacobsen (\$527,000).
EPA and Resources for the Future Grant on Retrospective Analysis of Federal Environmental Regulation. 2021. With Arthur van Benthem, James Sallee, and Mark Jacobsen (\$25,000).
NBER Economics of Transportation in the 21st Century Grant, “Regulating Untaxable Externalities,” 2020-2021. With Arthur van Benthem, James Sallee, and Mark Jacobsen (\$34,000).
NSF, “The Environmental Bias of Trade Policy,” SES 1850790, 2019-2022 (\$293,000).
NSF, “Leakage from Environmental Regulation,” SES 1530494, 2015-2018, with Arthur van Benthem (\$426,000).
NBER Economics of Energy Markets Grant (with Reed Walker), 2016-2017 (\$23,000).
EPA Science to Achieve Results (STAR) Graduate Fellowship, 2010-2013

Internal Grants

Institute for Research on Labor and Employment, 2024-2025
Giannini Foundation, University of California 2018-2025

Center on the Economics and Demography of Aging, 2022-2023
Clausen Center, UC, 2020, 2023
MacMillan Center, Weyerhaeuser Research Grant (with Matt Kotchen), Yale, 2014, 2017
Energy Fellow, Martin Family Fellow, MIT, 2009

WORKING PAPERS

- “Water Works: Causes and Consequences of Safe Drinking Water in America.”
(with Dave Keiser, Bhash Mazumder, and David Molitor)
Quarterly Journal of Economics, revise and resubmit
- “Is Air Pollution Regulation Too Lenient? Evidence from US Offset Markets”
(with Reed Walker)
American Economic Review, conditionally accepted (data),
- “The Effects of “Buy American”: Electric Vehicles and the Inflation Reduction Act”
(with Hunt Allcott, Reigner Kane, Max Maydanchik, and Felix Tintelnot)
- “Spatial Environmental Economics”
(with Clare Balboni)
Prepared for Handbook of Regional and Urban Economics, Vol. VI, edited by Dave Donaldson and Stephen Redding.
- “Optimal Carbon Taxation with Concerns for Redistribution”
(with Arnaud Costinot, Danny O’Connor, and Ivan Werning)
- “The Carbon Footprint of Multinational Production”
(with Ezequiel Garcia-Lembergman, Natalia Ramondo, and Andres Rodriguez-Clare)
- “Understanding Support for Inefficient Environmental Policy Instruments.”
(with Maximiliano Lauletta, Ro’ee Levy, and Dmitry Taubinsky)

PUBLICATIONS/FORTHCOMING/ACCEPTED

- “Institutions, Comparative Advantage, and the Environment.”
Review of Economic Studies, accepted
- “Do Earmarks Target Low-Income and Minority Communities? Evidence from US Drinking Water.”
(with Dave Keiser, Bhash Mazumder, David Molitor, and Brant Walker)
AEA Papers and Proceedings 2024. Volume 114: 36-40.
- “Machine Learning Predicts Which Rivers, Streams, and Wetlands the Clean Water Act Regulates”
(with Simon Greenhill, Hannah Druckenmiller, Sherrie Wang, David A. Keiser, Manuela Giroto, Jason K. Moore, Nobuhiro Yamaguchi, and Alberto Todeschini)

Science 2024. Volume 383(6681): 406-412.

“Regulating Untaxable Externalities: Are Vehicle Air Pollution Standards Effective and Efficient?”

(with Mark Jacobsen, James Sallee, and Arthur van Benthem)

Quarterly Journal of Economics 2023. Volume 138(3): 1907-1976.

“Globalization and the Environment.”

(with Brian R. Copeland and M. Scott Taylor)

Handbook of International Economics 2022. Editors Gita Gopinath, Elhanan Helpman, and Kenneth Rogoff. Volume V: 61-146. Elsevier.

“Pollution Trends and US Environmental Policy: Lessons from the Last Half Century.”

Review of Environmental Economics and Policy 2022. Volume 16(1): 42-61.

“The Evolution of the “Waters of the United States” and the Role of Economics.”

(with Sheila Olmstead, Kevin Boyle, Victor Flatt, Bonnie Keeler, Dan Phaneuf, and Jay Shimshack)

Review of Environmental Economics and Policy 2022. Volume 16(1): 146-152.

“A water rule that turns a blind eye to transboundary pollution”

(with Dave Keiser, Sheila Olmstead, Kevin Boyle, Victor Flatt, Bonnie Keller, Catherine Kling, Daniel Phaneuf, and Jay Shimshack)

Science 2021. Volume 372(6539): 241-243.

“Where is Pollution Moving? Environmental Markets and Environmental Justice”

(with Reed Walker)

AEA Papers & Proceedings 2021. Volume 111: 410-14.

“The Environmental Bias of Trade Policy.”

Quarterly Journal of Economics 2021. Volume 136(2): 831-886.

“The Incidence of Carbon Taxes in U.S. Manufacturing: Lessons from Energy Cost Pass-Through”

(with Sharat Ganapati and Reed Walker)

American Economic Journal: Applied Economics 2020. Volume 12(2): 303-42.

“US Water Pollution Regulation over the Last Half Century: Burning Waters to Crystal Springs?”

(with Dave Keiser)

Journal of Economic Perspectives 2019. Volume 33(4): 51-75.

“The Low but Uncertain Measured Benefits of US Water Quality Policy”

(with David Keiser and Catherine Kling)

Proceedings of the National Academy of Sciences 2019. Volume 116(12): 5262-5269.

- “Consequences of the Clean Water Act and the Demand for Water Quality”
(with David Keiser)
Quarterly Journal of Economics 2019. Volume 134(1): 349-396.
- “Why is Pollution from U.S. Manufacturing Declining? The Roles of Environmental Regulation, Productivity, and Trade”
(with Reed Walker)
American Economic Review 2018. Volume 108(12): 3814-54.
- “Regulating Mismeasured Pollution: Implications of Firm Heterogeneity for Environmental Policy”
(with Eva Lyubich and Reed Walker)
AEA Papers and Proceedings 2018. Volume 108: 136-142.
- “Defensive Investments and the Demand for Air Quality: Evidence from the NOx Budget Program”
(with Olivier Deschênes and Michael Greenstone)
American Economic Review 2017. Volume 107(10): 2958-2989.
- “Trade Costs, CO₂, and the Environment.”
American Economic Journal: Economic Policy 2016. Volume 8(4): 220-54.
- “Adapting to Climate Change: The Remarkable Decline in the U.S. Temperature-Mortality Relationship Over the 20th Century”
(with Alan Barreca, Karen Clay, Olivier Deschênes, and Michael Greenstone)
Journal of Political Economy 2016. Volume 124(1): 105-159.
- “Convergence in Adaptation to Climate Change: Evidence from High Temperatures and Mortality, 1900-2004”
(with Alan Barreca, Karen Clay, Olivier Deschênes, and Michael Greenstone)
American Economic Review Papers and Proceedings 2015. Volume 105(5): 247-51.
- “Globalization and the Role of Public Transfers in Redistributing Income in Latin America and the Caribbean”
(with Emmanuel Skoufias and Kathy Lindert)
World Development 2010. Volume 38(6): 895-907.
- “The Benefits of Delayed Primary School Enrollment: Discontinuity Estimates Using Exact Birth Dates”
(with Patrick J. McEwan)
Journal of Human Resources 2008. Volume 43(1): 1-29.
- “Community-Based Production of Open-Source Software: What do we Know About the Developers who Participate?”
(with Paul A. David)
Information Economics and Policy 2008. Volume 20(4): 364-398.

“Moving On, Staying Behind, Getting Lost: Lessons on poverty mobility from longitudinal data”
(with Stefan Dercon)
Moving Out of Poverty 2007, Eds. Narayan, D., and P. Petesch. 77-126. Washington,
DC: World Bank.

VISITING POSITIONS

Stanford Department of Economics (2017, 2019, 2024)
Federal Reserve Bank of San Francisco (2022)
Becker-Friedman Institute at University of Chicago (2017)
Energy Institute at UC Berkeley (2017)

TALKS

Keynotes and public lectures

Keynote, Virtual Conference on Trade, Spatial Economics, and the Environment, 2023
Keynote, Nordic International Trade Seminars (NOITS) conference, 2023
Keynote, NBER Conference on Economic Analysis of Regulation, 2022
Kiel Lecture on Economic and Social Transformation in a Globalized World, 2022
Keynote, Assoc. of Environmental & Resource Economists Summer Conference, 2021
Keynote, International Agricultural Trade Consortium Annual Conference, 2021

Invited seminar, conference, policy organization, and paper discussions

Academic seminars: Arizona State; Berkeley/Harvard/Yale; Carnegie Mellon-Tepper-U
Pittsburgh; Carleton; Chinese University of Hong Kong-Shenzen; City University of New York;
Colgate University; Columbia; Cornell; Dartmouth; Development Economics Network Berlin;
Duke; Fudan; Georgetown; Georgia State; Harvard (Business, Econ, Kennedy School);
Harvard/MIT; Indiana University; London School of Economics; Mannheim (MISES/ZEW);
Michigan State; MIT (Econ; Sloan); Monash; Northwestern-Kellogg; Paris School of
Economics; Princeton; San Diego State; Series of Webinars in Economics of Environment,
Energy and Transport; Stanford; Texas A&M; U Alberta; U Amsterdam; U Auckland; U British
Columbia (Econ, Business); U Chicago (Booth, Econ, Harris); U Connecticut; U Illinois-Urbana
Champaign; U Maryland; U Mass Amherst; U Michigan; U Pennsylvania-Wharton; U Tokyo
(AEW with NTU-Taiwan, NUS, HKUST, Sinica, HKU, NTU-Singapore, Hitotsubashi U, Seoul
National U); U Washington; U Wisconsin-Madison; UC Berkeley (Econ, Environmental, Haas);
UC Davis; UC San Diego; UC Santa Barbara; UCLA; Vanderbilt; Yale (Econ, Environmental,
Law);

Conferences: Advances in Environmental Economics-Arizona State; Agricultural and Applied
Economics Association; Air and Waste Management Association; American Economic
Association; American Geophysical Union; Association of Environmental and Resource
Economists Summer Conference; Coase Project; Empirical Investigations in International Trade;
Energy Institute at Haas; Expert Dialog on Subsidy Reform (International Monetary Fund-World

Trade Organization-U Zurich); Federal Reserve Bank (Atlanta; San Francisco); Heartland; NBER (Energy/Environmental; Energy Markets; International Trade and Investment; Public; Urban); Policy Studies Organization; US Census; Western Economic Association International; Yale Energy-Environment Day

Policy and Related: Association of Clean Water Administrators; Brookings; California Water Boards; California Wetland Monitoring Group; California-China Climate Institute; Center for Climate and Energy Solutions (C2ES); Colorado Dept of Public Health & Environment; Environmental Defense Fund; Environmental Protection Agency; European Commission-Directorate for Economic and Financial Affairs; European Central Bank-International Relations Committee Climate Change Network; Federal Reserve Banks of New York, San Francisco; Flexport; Inter-American Development Bank; International Economic Association; International Monetary Fund; KAS & E3G; Kiel Institute; Korea Development Institute / Hawaii Asia-Pacific Institute; National Association of Wetland Managers; Organization for Economic Cooperation and Development (OECD); State Bank of Pakistan; Sweden Ministry of Foreign Affairs; Trout Unlimited; US International Trade Commission; Vienna Institute for International Economic Studies; World Bank (Development Economics; Global Indicators Group; Middle East & North Africa); World Trade Organization

Paper discussions: American Economic Association; Global Open Series in Environmental Economics; NBER (Agriculture and Trade; Energy and Environment); Northeast Workshop on Energy/Environmental Economics; UC Berkeley POWER; U Minnesota Heller/Hurwicz conference on Climate Change

Government Testimony

European Union Secretariat Committee on International Trade, Session on “Trade Policy Day: A Renewed EU Trade Policy After the COVID-19 Pandemic,” Presentation on “Trade and the Environment” (2020)

TEACHING

Ph.D. level Environmental Economics: 2018-2023

Ph.D. level Public Finance: 2014-2017

International Environmental Economics: 2013-2023

SERVICE TO THE PROFESSION AND PUBLIC

Member, Review Committee on Waters of the United States Rule, External Environmental Economics Advisory Committee

Referee for: American Economic Journal (Applied, Economic Policy, Macroeconomics); American Economic Review; American Economic Review: Insights; American Journal of Agricultural Economics; Canadian Journal of Economics; Climate and Development;

Demographic Research; Econometrica; Economics of Education Review; Economic Journal; Economics Letters; Energy & Environmental Science; Environmental and Resource Economics; European Economic Review; IZA World of Labor; Journal of the Association of Environmental and Resource Economists; Journal of Economic Geography; Journal of Environmental Economics and Management; Journal of Law and Economics; Journal of Political Economy; Journal of the European Economic Association; Journal of Health Economics, Journal of Human Resources; Journal of International Economics; Journal of Population Economics; Journal of Public Economics; Journal of Urban Economics; Proceedings of the National Academy of Sciences; Quarterly Journal of Economics; Review of Economic Studies; Review of Economics and Statistics; Science; Science Advances; World Bank Economic Review

Ad Hoc Reviewer: European Commission, National Science Foundation; Oxford University Press; Palgrave MacMillan; Princeton University Press; Russel Sage Foundation; Trans-Atlantic Platform Recovery, Renewal, and Resilience in a Post-Pandemic World; United States Department of Agriculture; World Bank-Knowledge for Change

Program Committee: Association of Environmental and Resource Economists summer conference / World Congress of Environmental and Resource Economists (2017-2024); European Association of Environmental and Resource Economists (2023-2025); LSE Annual Workshop on Environmental Economics / Environment Week (2020, 2022)

Conference session organizer or co-organizer: American Economic Association (2017, 2018, 2020, 2023, 2024, 202), National Tax Association (2017), Western Economic Association Presidential Invited Session (2020)

Conference organizer or co-organizer: Yale Energy/Environment Day (2016); Stanford Institute for Theoretical Economics “Politically Feasible Environmental and Energy Policy” (2023); NBER Summer Institute-Environment and Energy Economics (2024); Cowles Foundation International Trade Conference (2024); NBER-Sloan Conference on Energy Markets, Decarbonization, and Trade (2025)

OTHER SERVICE TO DEPARTMENT AND UNIVERSITY

Environmental/energy economics workshop organizer (2019-2024)

Informal faculty advisor, predoctoral research assistants at UC Berkeley (2021-2024)

Graduate second-year paper advisor (2020-2022)

Committee on Memorial Resolutions (2022-5)

Faculty Executive Committee, 2022-2024

Junior Faculty Recruiting Committee (2014-2015, 2017-2018, 2022-2023)

Ph.D. Placement Co-Director (2015-2016)

Labor/Public Economics Workshop co-organizer (2014-2017)

Mitchell/Marshall/Rhodes Scholarship selection committee, Yale (2014-2015, 2015-2016)

Ph.D. Admissions (2013-2014)

OTHER

Patent pending, US Patent and Trademark Office, “Waters of the United States – Machine Learning.” With Simon Greenhill, Hannah Druckenmiller, Sherrie Wang, David A. Keiser, Manuela Girotto, Jason K. Moore, Nobohiro Yamaguchi, and Alberto Todeschini.

Research discussed in major media (*New York Times*, *Wall Street Journal*, *Washington Post*, *The Economist*, *Microeconomic Insights*, Bloomberg, CNN, BBC, etc.)

Columns at VoxEU, VoxDev, Energy Institute Blog, NBER Reporter

Special Sworn Status, US Census Bureau (2008-)

Junior Professional Associate and Consultant, World Bank (2003-2005)

Citizenship: USA