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PRIMARY AFFILIATION

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

OTHER AFFILIATIONS

2022 – Advisor/consultant on trade & environment, European Commission,
Directorate General for Trade
2022 – Faculty Affiliate, Clausen Center for International Business & Policy
2019 – Associate Editor, Journal of Political Economy
2019 – Co-Editor, Journal of Public Economics
2018 – Research Associate, National Bureau of Economic Research (NBER)
2018 – Research Associate, Energy Institute at Haas
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

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, 2015, 2016, 2017, 2019
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

NIH, 1R01AG079914-01. 2022-2027. Co-I: Dave Keiser, Bhash Mazumder, and David Molitor. Time-sharing Experiments for the Social Sciences TESS-1559. 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

Google Cloud Platform Grant, 2022

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

EPA and Resources for the Future Grant on Retrospective Analysis of Federal Environmental Regulation. 2021. With Arthur van Benthem, James Sallee, and Mark Jacobsen

NBER Economics of Transportation in the 21st Century Grant, "Regulating Untaxable Externalities," 2020-2021. With Arthur van Benthem, James Sallee, and Mark Jacobsen

NSF, "The Environmental Bias of Trade Policy," SES 1850790, 2019-2022

NSF, "Leakage from Environmental Regulation," SES 1530494, 2015-2018, with Arthur van Benthem

NBER Economics of Energy Markets Grant (with Reed Walker), 2016-2017

EPA Science to Achieve Results (STAR) Graduate Fellowship, 2010-2013

Internal Grants

Center on the Economics and Demography of Aging, 2022-2023

Giannini Foundation, University of California 2018-2023

Clausen Center, UC Berkeley (with Andres Rodriguez-Clare), 2020-2021

MacMillan Center, Weyerhaeuser Research Grant (with Matt Kotchen), Yale, 2014, 2017

Energy Fellow, Martin Family Fellow, MIT, 2009

WORKING PAPERS

"Institutions, Comparative Advantage, and the Environment: Why Are Developing Countries Polluted?"

"The Carbon Footprint of Multinational Production" With Ezequiel Garcia-Lembergman, Natalia Ramondo, and Andres Rodriguez-Clare.

"Is Air Pollution Regulation Too Stringent?"
With Reed Walker

PUBLICATIONS/FORTHCOMING

“Regulating Untaxable Externalities: Are Air Pollution Standards for Vehicles Effective and Efficient?” Accepted, Quarterly Journal of Economics. With Mark Jacobsen, James Sallee, and Arthur van Benthem.

“Globalization and the Environment.” 2022. Handbook of International Economics Volume V, pp. 61-146. With Brian R. Copeland and M. Scott Taylor. Editors, Gita Gopinath, Elhanan Helpman, and Kenneth Rogoff. Elsevier.

“Pollution Trends and US Environmental Policy: Lessons from the Last Half Century.” 2022. Review of Environmental Economics and Policy 16(1): 42-61.

“The Evolution of the “Waters of the United States” and the Role of Economics.” 2022. Review of Environmental Economics and Policy 16(1): 146-152.
With Sheila Olmstead, Kevin Boyle, Victor Flatt, Bonnie Keeler, Dan Phaneuf, and Jay Shimshack.

“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). 2021. Science 372(6539): 241-243.

“Where is Pollution Moving? Environmental Markets and Environmental Justice” (with Reed Walker). 2021, AEA Papers & Proceedings 111: 410-14.

“The Environmental Bias of Trade Policy.” 2021, Quarterly Journal of Economics 136(2): 831-886.

Synopsis published in Science 371(6528) p. 479

“The Incidence of Carbon Taxes in U.S. Manufacturing: Lessons from Energy Cost Pass-Through” (with Sharat Ganapati and Reed Walker). 2020. American Economic Journal: Applied Economics 12(2): 303-42.

“US Water Pollution Regulation over the Last Half Century: Burning Waters to Crystal Springs?” (with Dave Keiser). 2019. Journal of Economic Perspectives 33(4): 51-75.

“The Low but Uncertain Measured Benefits of US Water Quality Policy” (with David Keiser and Catherine Kling). 2019. Proceedings of the National Academy of Sciences 116(12): 5262-5269.

“Consequences of the Clean Water Act and the Demand for Water Quality” (with David Keiser). 2019. Quarterly Journal of Economics 134(1): 349-396.

Editor’s Choice, Science 2018 362(6414): 555.

“Why is Pollution from U.S. Manufacturing Declining? The Roles of Environmental Regulation, Productivity, and Trade” (with Reed Walker). 2018. American Economic Review 108(12): 3814-54.

“Regulating Mismeasured Pollution: Implications of Firm Heterogeneity for Environmental Policy” (with Eva Lyubich and Reed Walker). 2018. AEA Papers and Proceedings 108: 136-142.

“Defensive Investments and the Demand for Air Quality: Evidence from the NO_x Budget Program” (with Olivier Deschênes and Michael Greenstone). 2017. American Economic Review 107(10): 2958-2989.

“Trade Costs, CO₂, and the Environment.” 2016. American Economic Journal: Economic Policy 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). 2016. Journal of Political Economy 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). 2015. American Economic Review Papers and Proceedings 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). 2010. World Development 38(6): 895-907.

“The Benefits of Delayed Primary School Enrollment: Discontinuity Estimates Using Exact Birth Dates” (with Patrick J. McEwan). 2008. Journal of Human Resources 43(1): 1-29.

“Community-Based Production of Open-Source Software: What do we Know About the Developers who Participate?” (with Paul A. David). 2008. Information Economics and Policy 20(4): 364-398.

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

VISITING POSITIONS

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

TALKS

Keynotes and public lectures

Nordic International Trade Seminars (NOITS) conference, 2023

Keynote Address, NBER Conference on Economic Analysis of Regulation, 2022

Kiel Lecture on Economic and Social Transformation in a Globalized World, 2022

Keynote Address, Assoc. of Environmental & Resource Economists Summer Conference, 2021

Keynote Address, International Agricultural Trade Consortium Annual Conference, 2021

Invited seminar, conference, policy organization, and paper discussions

Academic seminars: Arizona State; Berkeley/Harvard/Yale; Carnegie Mellon-Tepfer-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; 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 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 Meeting; Empirical Investigations in International Trade; Energy Institute at Haas; Federal Reserve Bank (Atlanta; San Francisco); Heartland; NBER (Energy/Environmental; Energy Markets; International Trade and Investment; Public; Urban); US Census; Western Economic Association International; Yale Energy-Environment Day

Policy: Brookings; 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; Federal Reserve Bank of San Francisco; Flexport; Inter-American Development Bank; KAS & E3G; Kiel Institute; OECD; Sweden Ministry of Foreign Affairs; US International Trade Commission; Vienna Institute for International Economic Studies; World Bank; 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: 2018-2022

Ph.D. level Public Finance: 2014-2017

International Environmental Economics: 2013-2022

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; Trans-Atlantic Platform Recovery, Renewal, and Resilience in a Post-Pandemic World; United States Department of Agriculture

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

Conference session chair or organizer: American Economic Association (2017, 2018, 2020), National Tax Association (2017), Western Economic Association Presidential Invited Session (2020)

Conference creator and organizer: Yale Energy/Environment Day (2016)

OTHER SERVICE TO DEPARTMENT AND UNIVERSITY

Environmental/energy economics workshop organizer (2019-2022)

Graduate second-year paper advisor (2020-2022)

Committee on Memorial Resolutions (2022-3)

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

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

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

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

Ph.D. Admissions (2013-2014)

OTHER

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

Columns at VoxEU, Energy Institute Blog, NBER Reporter

Special Sworn Status, US Census Bureau (2008-)

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

Citizenship: USA