

CONTACT INFORMATION:

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EMPLOYMENT:

2016-present Associate Professor, Department of Agricultural and Resource Economics,
University of California, Davis
2009-2016 Assistant Professor, Department of Agricultural and Resource Economics,
University of California, Davis

AFFILIATIONS:

2024-2025 Visiting Professor, Agricultural and Resource Economics, UC Berkeley
2021-present J-PAL Affiliate
2017-2022 Chancellor's Fellow
2017-present Associate Director, Center for Watershed Sciences
Fall 2015 Visiting Researcher, Energy Institute at Haas, UC Berkeley
2014-present Faculty Affiliate, The E2e Project

EDITORIAL POSITIONS:

2020-present Co-Editor, Journal of the Association of Environmental and Resource Economists
2019-present Editorial Council, Journal of Environmental Economics and Management
2021-present Editorial Board, Review of Environmental Economics and Policy

EDUCATION:

2009 Ph.D. Environmental and Natural Resource Economics (with distinction), School of
Forestry and Environmental Studies, Yale University
2004 M.E.S.M. Environmental Science & Management, UC Santa Barbara
2002 B.A. Ecology and Evolutionary Biology, Princeton University

RESEARCH INTERESTS:

Environmental, energy and resource economics

PUBLICATIONS

“AMI Water Meters Deliver End-Use Water and Financial Savings in Leaky Households: Experimental Evidence from California,” with A. Rupiper, R. Good, J. Ackerman, J. Gregory, and F. Loge, *Environmental Research Letters*, 19, 2024: 114010.

“The Dynamic Impacts of Pricing Groundwater,” with E. Bruno and M. Hanemann, *Journal of the Association of Environmental and Resource Economists*, 11(5), 2024: 1201-1227.

“Designing Water Markets for Climate Change Adaptation,” with E. Bruno, *Nature Climate Change*, 14, 2024: 331-339.

“Untapped Potential: Leak Reduction is the Most Cost-effective Urban Water Management Tool,” with A. Rupiper, J. Weill, E. Bruno and F. Loge, *Environmental Research Letters*, 17(3), 2022: 034201.

“Residential Water Conservation During Drought: Experimental Evidence from Three Behavioral Interventions,” with G. Lade, F. Loge and E. Spang, *Journal of Environmental Economics and Management*, 110, 2021: 102519.

“Missing Markets: Evidence on Agricultural Groundwater Demand From Volumetric Pricing,” with E.

Bruno, *Journal of Public Economics*, 191, 2021: 104374

“Using Price Elasticities of Water Demand to Inform Policy,” with E. Bruno, *Annual Review of Resource Economics*, 13(1), 2021: 427-441.

“Spillovers from Behavioral Interventions: Experimental Evidence from Water and Energy Use,” with G. Lade, F. Loge and E. Spang, *Journal of the Association of Environmental and Resource Economists*, 8(2), 2021: 315-346.

“Utilities Included: Split Incentives in Commercial Electricity Contracts,” with M. Papineau and D. Rapson, *The Energy Journal*, 41(5), 2020: 271-297.

“Climate Change and Labor Allocation in Rural Mexico: Evidence from Annual Fluctuations in Weather,” with D. Manning and J. E. Taylor, *The Economic Journal*, 128, February 2018: 230-261.

“Commercial and Industrial Demand Response under Mandatory Time-of-Use Pricing,” with D. Rapson. *Journal of Industrial Economics*, 63(3), September 2015: 397-421.

“Towards Understanding the Role of Price in Residential Electricity Choices: Evidence from a Natural Experiment,” with D. Rapson and J. Smith. *Journal of Economic Behavior and Organization*, 107, November 2014: 191-208.

“Knowledge is (Less) Power: Experimental Evidence from Residential Energy Use,” with D. Rapson. *American Economic Review*, 104(4), April 2014: 1417-1438.

“Improved Source, Improved Quality? Demand for Drinking Water Quality in Rural India.” *Journal of Environmental Economics and Management*, 66(3), November 2013: 460-475.

“Development and the Environment: The Implications of Agricultural Electricity Subsidies in India,” with R. Badiani and S. Plant. *Journal of Environment and Development*, 21(2), June 2012: 244-262.

“Sampling Out: Regulatory Design and the Total Coliform Rule,” with L. Benneer and S. Olmstead. *Environmental Science and Technology*, 43(14), July 2009: 5176-5182.

BOOK CHAPTERS AND OTHER PUBLICATIONS:

“The Costs of Changes in Energy Use in a Warming World: News and Views,” with F. Moore. *Nature*, 598(7880), October 2021: 262-263.

“Climate Change and California Agriculture,” with A. Ortiz-Bobea and P. Merel. In Rachael Goodhue, Phil Martin and Brian Wright, ed. *California Agriculture: Dimensions and Issues*, University of California: Giannini Foundation and Division of Agriculture and Natural Resources, 2021: 347-372.

“Electricity Prices, Groundwater and Agriculture: The Environmental and Agricultural Impacts of Electricity Subsidies in India,” with R. Badiani. In Wolfram Schlenker, ed. *Understanding Productivity Growth in Agriculture*, National Bureau of Economic Research, University of Chicago Press, 2019: 157-181.

“Utilization and Customer Behavior: Smart Choices for the Smart Grid,” with D. Rapson and J. Smith. In Chen-Ching Liu, Stephen McArthur and Seung-Jae Lee, ed. *The Smart Grid Handbook*, John Wiley and Sons, Ltd, 2016: 1159-1173.

WORKING PAPERS:

The Effects of Storage on Water Price Sensitivity to Droughts, revise and resubmit, *Nature Sustainability*, (with M. Turland, C. Carter, B. Gafarov, and J. Hilscher)

Externalities of Climate Adaptation in Common-Pool Groundwater Resources (with E. Bruno, J. Hadachek, and N. Hagerty), submitted.

RESEARCH GRANTS, CONTRACTS & FELLOWSHIPS:

Co-PI: USDA NIFA Grant, 2021-26, “Sustaining Groundwater and Irrigated Agriculture in the Southwestern United States Under a Changing Climate,” \$10,000,000 (with I. Kisekka as PI).

Co-PI: Belmont Forum/NSF, 2021-25, “INCLUSIVE – Stakeholder Supported Decision Making for Sustainable Groundwater,” \$235,000 (with T. Harter and J. Lund).

PI: Giannini Foundation:

2023-24, “Agricultural Adaptation to Climate Change: The Role of Water Storage,” \$32,500.

2022-23, “Water Markets in California: Evidence from the Nasdaq Water Index,” \$30,000.

2021-22, “Drought and Access to Safe Drinking Water,” \$27,000.

2020-21, “Land and Water Impacts of Cannabis Cultivation,” \$27,000.

2016-17, “Sustainable Groundwater in California,” \$27,000 (with R. Sexton)

2012-13, “The Safe Drinking Water Act and Water Quality: Nitrate Contamination,” \$22,327

2010-11, “Price and Non-price Instruments for Water Conservation,” \$15,349

PI: USDA, 2021-22, “Agricultural Production and Water Quality in Rural Communities,” \$30,000.

Co-PI: State Water Resources Control Board, 2019-20, “Life Cycle Cost and Economic Analysis for Water Loss Performance Standards,” \$330,000 (with F. Loge).

Co-PI: Sloan Foundation, 2018-25, “Energy Savings from Commercial Energy Efficiency Investments,” \$256,933 (with G. Lade).

PI: UC Water, 2017-18, “Sustainable Groundwater in California: Managing Water Use with Economic Instruments,” \$59,923.

Co-PI: Department of Water Resources, 2015-17, “Smart Water Energy Savings,” \$800,000 (with F. Loge and E. Spang)

Co-PI: The E2e Project, 2016, “Water-Based Behavioral Interventions and Energy Efficiency Investments,” \$24,360 (with G. Lade and E. Spang)

Hellman Faculty Fund Award, 2014-15, “Conservation during Drought,” \$35,889

Co-PI: UC Center for Energy and Environmental Economics, 2012-13, “Choice-Neutral Defaults and Residential Energy Use: A Randomized Controlled Trial,” \$16,955 (with D. Rapson)

Co-PI: UC Center for Energy and Environmental Economics, 2010-11, “Getting the Most out of Home Area Networks: A Randomized Controlled Trial,” \$16,931 (with D. Rapson)

PI: EPA Science to Achieve Results (STAR), 2007-2010, “Welfare Gains from Improved Drinking Water Sources,” \$111,000

PI: Teresa Heinz Scholar for Environmental Research, 2007-08, “Welfare Gains from Improved Drinking Water Sources,” \$11,400

TEACHING:

Government Regulation of Business (UC Davis Spring 2010, Fall 2012, Fall 2013, Spring 2016, Spring 2017, Fall 2017, Fall 2018, Spring 2020, Fall 2020, Winter 2021, Spring 2021, Fall 2021, Fall 2022, Spring 2024), Environmental Economics (UC Davis Spring 2017) Environmental Policy Instruments (UC Davis Fall 2010, Winter 2013, Winter 2014, Winter 2015, Winter 2017, Winter

2018, Fall 2018, Fall 2020, Fall 2021, Fall 2022, Spring 2024), Resource and Environmental Policy Analysis (UC Davis Winter 2011, Spring 2012, Winter 2015), Undergraduate Honors Thesis (Fall 2013, Winter 2014)

UC DAVIS PhD ADVISING (INITIAL PLACEMENT), DISSERTATION COMMITTEE:

Diane Charlton, 2016, Montana State University
 Abbie Turiansky, 2016, Mathematica
 Gerardo Aragon, chair, 2017, University of Monterrey
 Tianxia Zhou, 2018, Uber
 Ellen Bruno, co-chair, 2018, UC Berkeley
 Natalie Popovich, chair, 2019, Lawrence Berkeley National Laboratory
 Matthew Gammans, 2020, Michigan State University
 Jesus Arellano Gonzalez, co-chair, 2020, Bank of Mexico
 Andrew Hobbs, 2020, University of San Francisco,
 Mengxin Ji, 2020, Facebook
 Kevin Nakolan, 2020, Department of Energy
 Jack Gregory, 2022, World Trade Organization
 Joakim Weill, co-chair, 2022, Federal Reserve Board
 Bret Stevens, 2023, Oregon Public Utility Commission
 Anderson Ospino, co-chair, 2023, Inter-American Development Bank
 Zheng Fu, 2023, Cainiao Network
 Jinmahn Jo, 2023, Korea Energy Economics Insitute
 Jeffrey Hadachek, 2023, co-chair, University of Wisconsin
 Madeline Turland, 2024, chair, University of Alberta
 Thomas Anderson, 2024, University of Florida
 Isabelle Picciotto, 2025, Arizona State University

CONFERENCES AND SEMINARS:

2025: AEA (discussant), UC Santa Cruz, Cornell, AERE Annual Conference
 2024: USDA NIFA, Georgia Tech, University of Nevada, UC Berkeley ARE, UC/Stanford Environmental and Energy Economics Festival, U.S. Water Policy Workshop
 2023: UC Berkeley Groundwater Panel, NBER EEE (discussant), USF, NBER Distributional Impacts of Climate Change
 2022: The World Bank, North Carolina State University, RWI Essen, University of Alabama, PERC
 2021: University of Massachusetts, Amherst, University of Chicago EPIC, Jinan University, Montana State University, Resources for the Future Electricity Demand Workshop
 2020: AEA, AERE at ASSA (discussant), Big Ag Data conference, UC Davis, University of Pittsburgh/Carnegie Mellon University, Sierra Club
 2019: AERE at ASSA (discussant), AEA (discussant), Heartland Workshop, University of Connecticut, Oregon State University, Colorado School of Mines, Occasional Workshop (discussant) at UCSB
 2018: TREE, NBER EEE (discussant), UC Center Sacramento, Paris School of Economics, Toulouse School of Economics, London School of Economics, JEEM Inaugural Conference (discussant), Purdue, NBER Research and Innovation in Agriculture Conference
 2017: AERE at ASSA (discussant), Governing Green Power at University of Hawaii, University of Illinois Urbana-Champaign, NBER Ag Productivity, Stanford Workshop on Climate Change (discussant), RFF, UC Irvine, USC Workshop on Microeconomic Impacts of Climate Change
 2016: AEA (discussant), AERE at ASSA (discussant), University of Maryland ARE, Arizona State University School of Sustainability, UC Santa Cruz, AERE Annual Conference, Rutgers University Center for Research in Regulated Industries
 2015: AERE at ASSA, Yale Blueprint for Efficiency Seminar, UC Davis ARE 50th anniversary, UC Berkeley ARE, Haas Energy Institute Research Briefing
 2014: AERE at ASSA (discussant), Claremont McKenna College, UCLA, UC Drought Summit, Giannini Foundation Climate Change Conference, California Water Association, NBER EEE (discussant), Northwest A&F University
 2013: UC Davis (economics), Environmental and Development Economics Workshop UCSB, AERE Annual Conference, NBER Summer Institute EEE (discussant), Workshop on Identification of Causal Effects in Environmental and Energy Economics University of Tennessee (discussant)

- 2012: AERE at ASSA (discussant), POWER Conference, UC Davis Energy Institute, NBER Summer Institute EEE, Behavior Energy and Climate Change Conference
- 2011: UC Berkeley (ARE and EI), TREE, UC San Diego, AERE Annual Conference, UCE3
- 2010: UC Davis (ARE), PacDev, World Congress of Environmental and Resource Economists, UCEI lunch, UC Davis Energy Institute, Occasional California Workshop on Environmental and Natural Resource Economics (discussant)
- 2009: UC Davis (ARE), Emory University (Rollins School of Public Health), University of Michigan (Erb Institute), CU Boulder, EPA National Center for Environmental Economics, Boston University (Geography), Indiana University (School of Public and Environmental Affairs), Resources for the Future, Yale School of Medicine, APPAM Conference, CU Environmental and Resource Economics Workshop, Occasional California Workshop on Environmental and Natural Resource Economics

REFEREE SERVICE:

American Economic Journal: Applied Economics, American Economic Journal: Economic Policy, American Economics Review, American Economic Review: Insights, American Journal of Agricultural Economics, Annual Review of Resource Economics, B.E. Journal of Economic Analysis & Policy, Canadian Journal of Economics, Climate Change Economics, Ecological Economics, Economic Inquiry, Economic Journal, Energy Journal, Environment and Resource Economics, Journal of the Association of Environmental and Resource Economists, Journal of Development Economics, Journal of Econometrics, Journal of Economic Behavior and Organization, Journal of Environmental Economics and Management, Journal of Political Economy: Microeconomics, Journal of Public Economics, JPAL, King Climate Action Initiative, Management Science, National Science Foundation (individual and panel reviewer), National Tax Journal, Nature, Nature Energy, Nature Sustainability, Proceedings National Academy of Sciences, Quarterly Journal of Economics, Review of Economics and Statistics, Science, Sloan Foundation, Social Sciences and Humanities Research Council of Canada, Southern Economic Journal, Water Resource Economics, Water Resources Research, 3ie

PROFESSIONAL AND ASSOCIATION SERVICE:

Board Member, Association of Environmental and Resource Economists, 2025-present
 CSWEP Mentor 2021
 Co-Chair (with Maximilian Auffhammer) of the AERE Annual Conference 2019
 AERE Program Committee for AERE sessions at AEAs and AAEEs (2014-2017)
 Reviewer, AERE annual conference and World Congress (2010-present)
 Program Committee, Environment and Resource Economics sessions at AAEE annual meeting (2010-2012)

DEPARTMENTAL AND UNIVERSITY SERVICE (July 2016 - present):

Graduate Administrative Committee, ARE Department, 2017-present, Chair 2021-present
 Search Committee Member, ARE Department, 2016, 2017, 2018
 Undergraduate Council, ARE Department, 2017-2018
 Faculty Executive Committee, College of Ag and Environmental Sciences, 2021-present
 Scholarships or Fellowship Committee, UC Davis, 2016-2017, 2018-2019, 2021-present
 Undergraduate Council, UC Davis, 2016-2019
 Closing the Preparation Gap, UC Davis, 2018-2020