

ELLEN M. BRUNO

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Berkeley, CA 94720-3310

EDUCATION

University of California, Davis

Ph.D. in Agricultural and Resource Economics

2018

M.S. in Agricultural and Resource Economics

2016

University of California, San Diego

2013

B.S. in Management Science, *summa cum laude*

Minors in Math, Environmental Science

APPOINTMENTS

07/2018 - present Assistant Professor of Cooperative Extension
Department of Agricultural and Resource Economics
University of California, Berkeley

01/2019 - 07/2021 Associate Director
University of California Agricultural Issues Center

RESEARCH PUBLICATIONS

Rupiper, Amanda, Joaquim Weill, Ellen M. Bruno, Katrina Jessoe, and Frank Loge. (2022) “[Untapped Potential: Leak Reduction is the Most Cost-Effective Urban Water Management Tool.](#)” *Environmental Research Letters* 17.3: 4021.

Bruno, Ellen M. and Katrina Jessoe. (2021) “[Using Price Elasticities of Water Demand to Inform Policy.](#)” *Annual Review of Resource Economics* 13.9: 1-15.

Bruno, Ellen M. and Katrina Jessoe. (2021) “[Missing Markets: Evidence on Agricultural Water Demand from Volumetric Pricing.](#)” *Journal of Public Economics* 196: 104374.

Mishra, Ashok, Ellen M. Bruno, and David Zilberman. (2020) “[Compound Natural and Human Disasters: Managing Drought and COVID-19 to Sustain Global Agriculture and Food Sectors.](#)” *Science of the Total Environment* 754: 142210.

Bruno, Ellen M. and Richard J. Sexton. (2020) “[The Gains from Agricultural Groundwater Trade and the Potential for Market Power: Theory and Application.](#)” *American Journal of Agricultural Economics* 102.3: 884-910.

DeVincentis, Alyssa J., Sam Sandoval Solis, Ellen M. Bruno, Amber Leavitt, Anna Gomes, Sloane Rice, and Daniele Zaccaria. (2020) “[Using Cost-Benefit Analysis to Understand Adoption of Winter Cover Cropping in California’s Specialty Crop Systems.](#)” *Journal of Environmental Management* 261: 110025.

Saitone, Tina L. and Ellen M. Bruno. (2020) “[Cost Effectiveness of Livestock Guardian Dogs for Predator Control.](#)” *Wildlife Society Bulletin* 44.1: 101-109.

WORKING PAPERS

“Strawberry Fields Forever: Willingness-to-Pay for Groundwater Quality in Agriculture” with Molly Sears and W. Michael Hanemann.

“The Dynamic Impacts of Pricing Groundwater Externalities” with Katrina Jessoe and W. Michael Hanemann.

“The Political Economy of Groundwater Management: Descriptive Evidence from California” with Arthur R. Wardle and Nick Hagerty.

EXTENSION PUBLICATIONS

Ayres, Andrew, Christina Babbitt, Ellen M. Bruno, and Arthur R. Wardle. (2022). “[Designing Groundwater Markets in Practice: Lessons from Three California Groundwater Basins.](#)” Property & Environment Research Center (PERC) Policy Brief.

Rupiper, Amanda, Joakim Weill, Ellen Bruno, Katrina Jessoe, and Frank Loge. (2022). “[Could Fixing Leaky Pipes Help Solve California’s Water Problems?](#)” *ARE Update* 25.4: 1-4.

Bruno, Ellen M. (2021) “[Identifying Policies to Mitigate the Costs of Drought.](#)” *ARE Update* 25.1: 13-15.

Ayres, Andrew, Ellen Hanak, Brian Gray, Gokce Sencan, Ellen Bruno, Alvar Escriva-Bou, and Greg Gartrell. (2021). “[Improving California’s Water Market: How Water Trading and Banking Can Support Groundwater Management.](#)” Public Policy Institute of California (PPIC) Technical Report.

Bruno, Ellen M., Brittney Goodrich, and Richard J. Sexton. (2021) “[The Outlook for California’s Almond Market.](#)” *ARE Update* 24.6: 9-11.

Goodrich, Brittney, Kristin Kiesel, and Ellen Bruno. (2021) “[Differential Impacts of the COVID-19 Pandemic on California’s Produce and Nut Industries.](#)” *Western Economics Forum* 19.1: 58-74.

Bruno, Ellen M. and Heidi Schweizer. (2021) “[Why Wall Street Investors’ Trading California Water Futures is Nothing to Fear– and Unlikely to Work Anyway.](#)” *The Conversation*.

Wardle, Arthur R., Paige Griggs, and Ellen M. Bruno. (2021) “[A Progress Report on California’s Sustainable Groundwater Management Act.](#)” *ARE Update* 24.3: 1-4.

Bruno, Ellen M., Alyssa DeVincentis, Sam Sandoval Solis, and Daniele Zaccaria. (2020) “[Assessing the Costs and Benefits of Winter Cover Cropping in California.](#)” *ARE Update* 23.6: 9-11.

Bruno, Ellen M., Richard J. Sexton, and Daniel A. Sumner. (2020) “[The Coronavirus and the Food Supply Chain.](#)” *ARE Update* 23.4: 1-4.

Bruno, Ellen M., Andrew Ayres, and Emmanuel Asinas. (2019) “[Managing Flood Water for Aquifer Recharge: Economic Considerations for Policy.](#)” *Global Water Forum*.

Bruno, Ellen M. and Tina Saitone. (2019) “[Livestock Guardian Dogs: Do the Benefits Outweigh the Costs for Sheep Producers?](#)” *ARE Update* 22.6: 9-11.

Bruno, Ellen M. and David Zilberman. (2019) “[What Does the 2018 Farm Bill Mean for California and the Environment? Spotlight on the Conservation Programs.](#)” *ARE Update* 22.3: 6-8.

Bruno, Ellen M. and Katrina Jessoe. (2018) “[Climate Change and California’s Water Supply: How Can We Adapt?](#)” *ARE Update* 22.1: 1-3.

Bruno, Ellen M. (2018) “The Economic Impacts of Agricultural Groundwater Markets.” *ARE Update* 21.6: 9-11.

Maples, Stephen R., Ellen M. Bruno, Alejo W. Kraus-Polk, Stacy N. Roberts, and Lauren M. Foster. (2018) “Leveraging Hydrologic Accounting and Water Markets for Improved Water Management: The Case for a Central Clearinghouse.” *Water* 10.12: 17-20.

Bruno, Ellen M. (2017) “California’s New Groundwater Law and the Implications for Groundwater Markets.” *ARE Update* 20.4: 1-4.

Bruno, Ellen M. (2015) “Coping with Future Water Woes in the Western United States.” *EOS* 96.

GRANTS

- 2022 CDFA Specialty Crop Block Grant: “Assessing the Potential of Regenerative Agriculture to Support Soil Health and Carbon Sequestration” (with C. Lazcano, Lead PI)
- 2021 Foundation for Food & Agriculture Research (FFAR) New Innovator Research Award: “Advancing Water Policy for Agricultural Sustainability”
- 2021 USDA NIFA Sustainable Agricultural Systems: “Securing a Climate Resilient Water Future for Agriculture and Ecosystems through Innovation in Measurement, Management, and Markets” (with J. Viers, Lead PI)
- 2020 Giannini Foundation of Agricultural Economics: “Assessing Measurement Error in Remotely Sensed Land Use Data for Economic Applications”
- 2020 National Science Foundation RAPID: “Compounding Human and Natural Disasters: Implications for the Agricultural Sector” (with D. Zilberman and A. Mishra)
- 2019 Giannini Foundation of Agricultural Economics: “The Political Economy of Implementing California’s Sustainable Groundwater Management Act (SGMA)” (with R. Sexton)
- 2018 California Institute for Water Resources and U.S. Geological Survey: “Groundwater Regulation and Land Fallowing: How Does Water Scarcity Impact Land Use?”
- 2018 California Water Resources Control Board (SWRCB): “Life Cycle Cost and Economic Analysis for Water Loss Performance Standards” (with K. Jessoe and F. Loge)
- 2018 Giannini Foundation of Agricultural Economics: “The Economics of Groundwater Quality in California Agriculture”
- 2014 National Science Foundation Integrative Graduate Education & Research Traineeship

AWARDS

- 2020 Award for Most Downloaded Article in the 2019-2020 Issue of *ARE Update*
- 2019 Award for Most Downloaded Article in the 2018-2019 Issue of *ARE Update*
- 2019 Outstanding Doctoral Dissertation Award, *Agricultural & Applied Economics Association*
- 2019 Gordon A. King Award for Best Dissertation, ARE Dept, UC Davis
- 2017 Award for Most Downloaded Article in the 2016-2017 Issue of *ARE Update*
- 2017 Outstanding Graduate Paper Award, *Western Agricultural Economics Association*
- 2013 Joel Dean Award for Excellence in Management Science, UC San Diego

PRESENTATIONS

2022: AAEA Annual Meeting in Anaheim, CA; AERE Summer Conference in Miami, FL; Kern County Water Summit in Bakersfield, CA; NBER-USDA Conference on Water Resources, Climate Change, and Agricultural Sustainability; University of Nevada, Reno; Securing a Climate-Resilient Water Future Conference at UC Merced; UC ANR Water Program Team Meeting

2021: The National Academy of Sciences, Water Science and Technology Board Meeting; Property and Environment Research Center (PERC) Workshop on Water Markets; Pennsylvania State University; SWELL (Seminar in Water Economics onLLine); University of Arizona; Groundwater Resources Association Future of Water Conference

2020: AGU Conference; UC Davis; Cal Poly College of Agriculture, Food, and Environmental Sciences; AAEA Pre-conference Workshop on Specialty Crop Challenges; UC ANR Pistachio Workgroup Meeting; Groundwater Resources Association 3rd Annual GSA Summit; UC ANR Silver Solutions Seminar; NGO Groundwater Collaborative Workshop; UC ANR Water Program Team Meeting, Davis, CA; Giannini Foundation Big Ag Data Conference, Davis, CA; AERE @ ASSA, San Diego, CA.

2019: AGU Early Career Workshop on Water Cycle in a Warmer World, Plenary Speaker, San Francisco, CA; Flood-MAR Public Forum, Sacramento, CA; Camp Resources XXVI, Asheville, NC; Conjunctive Use of Groundwater and Surface Water Symposium, Davis, CA; State Water Board Public Stakeholder Meeting, Sacramento, CA; Groundwater Resources Association 2nd Annual GSA Summit, Fresno, CA; AERE Summer Conference in Lake Tahoe, CA; NBER-USDA Conference on Economics of Research and Innovation in Agriculture, Washington D.C.; UC ANR Agricultural Production Systems Program Team Meeting, Davis, CA; UC ANR Water Program Team Meeting, Davis, CA; UC-USDA Brown Bag Seminar, Davis, CA.

2018: National Bureau of Economic Research Pre-Conference, Cambridge, MA; The 17th Occasional Workshop in Environmental and Resource Economics, UC Santa Barbara; Agricultural & Applied Economics Association Annual (AAEA) Meeting in Washington, D.C.; Community Water Center, Sacramento, CA; Department of Environmental Science & Policy, University of California, Davis.

2017: Department of Environment, Water, and Natural Resources, Government of South Australia; Australian Agricultural & Resource Economics Society, Southern Australian Branch; Department of Agricultural & Resource Economics, University of Western Australia; Agricultural & Applied Economics Association (AAEA) Annual Meeting in Chicago, IL; Western Agricultural Economics Association Annual Meeting in Lake Tahoe, NV.

JOURNAL REFEREE

Agricultural Economics, American Journal of Agricultural Economics, Applied Economic Perspectives & Policy, Australian Journal of Agricultural and Resource Economics, Environment & Development Economics, Environmental and Resource Economics, European Review of Agricultural Economics, Food Policy, Journal of Agricultural & Applied Economics, Journal of Agricultural and Resource Economics, Journal of the Association of Environmental and Resource Economists, Journal of Environmental Economics and Management, Journal of Environmental Management, Journal of Water Resources Planning and Management, PLOS One, Resource and Energy Economics, Scientific Reports, Water Economics and Policy, Water Resources Research

EDITORIAL SERVICE

09/2018 - present Co-editor, *ARE Update*
01/2022 - present Associate Editor, *California Agriculture*

OTHER PROFESSIONAL ACTIVITIES

2022 - present Member, Expert Panel for CDFA's Drought Impact Assessment Platform
2022 Abstract Reviewer, AAEA Annual Meeting
2021 Member, Ad Hoc Advisory Panel for SWEEP, CA Department of Food & Agriculture
2020 - present Member, Public Policy Institute of California Water Policy Center Research Network
2020 - present Co-chair, UC ANR Water Program Team
2020 - present Member, Union of Concerned Scientists Groundwater Technical Assistance Network
2019 - 2021 UC Berkeley Representative, UC ANR Academic Assembly Council
2019 - 2022 Abstract Reviewer, AERE Summer Conference
2019 - present Panel Member, UC ANR Strategic Initiative: Water Quality, Quantity, and Security
2019 - 2020 Selected Paper Topic Leader, AAEA Annual Meeting
2018 - 2019 Member, Economic Advisory Subcommittee for Flood-MAR Program, California Department of Water Resources