

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 Specialist in Cooperative Extension
Department of Agricultural and Resource Economics
University of California, Berkeley

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

PEER-REVIEWED PUBLICATIONS

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.

EXTENSION PUBLICATIONS

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.

WORKING PAPERS

"Missing Markets: Evidence on Agricultural Water Demand from Volumetric Pricing" with Katrina Jessoe. R & R at *Journal of Public Economics*.

"Using Price Elasticities of Water Demand to Inform Policy" with Katrina Jessoe. Submitted to *Annual Review of Resource Economics*.

WORK IN PROGRESS

"Untapped Potential: Leak Reduction is the Most Cost-effective Urban Water Management Tool" with Amanda M. Rupiper, Joakim A. Weill, Katrina Jessoe, and Frank J. Loge

"Industry Impacts of a Pollution Tax: Groundwater Externalities and Agricultural Land Use" with Katrina Jessoe and W. Michael Hanemann.

"Groundwater Quality, Crop Choice, and the Cost of Sea-level Rise" with Molly Sears and W. Michael Hanemann.

TEACHING EXPERIENCE

2017 *Instructor*: Intermediate Microeconomics, UC Davis

2014 *Teaching Assistant*: Econometric Theory and Applications, UC Davis

2014 *Teaching Assistant*: Intermediate Microeconomics, UC Davis

AWARDS

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

GRANTS

- 2020 Giannini Foundation of Agricultural Economics: “Assessing Measurement Error in Remotely Sensed Land Use Data for Economic Applications.”
- 2020 National Science Foundation: “Compounding Human and Natural Disasters: Implications for the Agricultural Sector” (With D. Zilberman and A. Mishra)
- 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”
- 2017 UC Water Challenge Grant: “Sustainable Groundwater in California: Managing Water Use with Economic Instruments” (with K. Jessoe, R. Sexton, and W.M. Hanemann)
- 2017 Giannini Foundation of Agricultural Economics: “Managing Agricultural Water Use for Sustainable Groundwater in California” (with K. Jessoe and R. Sexton)
- 2014 National Science Foundation Integrative Graduate Education & Research Traineeship

PRESENTATIONS

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

2019: AGU/WCRP 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 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 Annual Meeting in Chicago, IL; Western Agricultural Economics Association Annual Meeting in Lake Tahoe, NV.

JOURNAL REFEREE

Agricultural Economics, American Journal of Agricultural Economics, Environmental and Resource Economics, Food Policy, Journal of Agricultural & Applied Economics, Journal of Environmental Management, Journal of the Association of Environmental and Resource Economists, Journal of Environmental Economics and Management, Journal of Water Resources Planning and Management, PLOS One, Resource and Energy Economics, Water Resources Research

PROFESSIONAL ACTIVITIES

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 - present UC Berkeley Representative, UC ANR Academic Assembly Council
2019 - 2020 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 - present Co-editor, *ARE Update*
2018 - 2019 Member, Economic Advisory Subcommittee for Flood-MAR Program, California Department of Water Resources (DWR)