

# ERIC C. EDWARDS

May 2020

Campus Box 8109  
2801 Founders Drive  
Raleigh, NC 27695  
eric.edwards@ncsu.edu  
www.ericcedwards.com

---

## POSITION

- 2018- Assistant Professor, Dept. of Ag and Resource Economics, North Carolina State Univ.  
2014-18 Assistant Professor, Dept. of Applied Economics, Utah State Univ.

## EDUCATION

- 2014 Ph.D. Economics and Environmental Science, Univ. of California, Santa Barbara  
2008 M.B.A., Simon Graduate School of Business, Univ. of Rochester  
2005 B.S., Mathematics, Univ. of Idaho

## RESEARCH

### Peer-Reviewed Publications

- Sanchez, L., Edwards, E.C., and Leonard, B. 2020. The Economics of Indigenous Water Claim Settlements in the American West. Accepted for publication at ***Environmental Research Letters***.
- Go, D.H., Edwards, E.C., and Oladi, R. 2020. Predator-Prey Interaction in a Bi-Resource Economy and the Role of Free Trade. Accepted for publication at ***Resource and Energy Economics***.
- Ge, M., Edwards, E.C. and Akhundjanov, S.B. 2020. Irrigation Investment on an American Indian Reservation. In Press at ***American Journal of Agricultural Economics***.
- Edwards, E.C. and Null, S.E. 2019. The Cost of Addressing Saline Lake Decline and the Potential for Water Conservation Markets. ***Science of the Total Environment***, vol. 651 Part 1, pp. 435-442.
- Edwards, E.C., Cristi, O., Edwards, G., and Libecap, G.D. 2018. An illiquid market in the desert: Estimating the cost of water trade restrictions in northern Chile. ***Environment and Development Economics***, vol. 23 no. 6, pp. 615-634.
- Edwards, E.C. and Smith, S.M. 2018. The Role of Irrigation in the Development of Agriculture in the United States. ***Journal of Economic History***, vol. 78 no. 4, pp. 1-39.
- Ayres, A.B., Edwards, E.C. and Libecap, G.D. 2018. How Transaction Costs Obstruct Collective Action: Evidence from California's Groundwater. ***Journal of Environmental Economics and Management***, vol. 91, pp. 46-65.
- Edwards, E.C., Bosworth, R.C., Adams, P., Baji, V., Burrows, A., Gerdes, C., Jones, M. 2017. Economic Insight from Utah's Water Efficiency Supply Curve. ***Water***, 9, 214.

Edwards, E.C. 2016. What Lies Beneath? Aquifer Heterogeneity and the Economics of Groundwater Management. *Journal of the Association of Environmental and Resource Economists*, vol. 3 no. 2, pp. 453-91.

Grafton, R.Q., Libecap, G.D., Edwards, E.C., O'Brien, R.J., and Landry, C. 2012. Comparative Assessment of Water Markets: Insights from the Murray-Darling Basin of Australia and the Western USA. *Water Policy*, 14 no. 2, pp. 175-93.

### **Working Papers**

Edwards, E.C. and Guilfoos, T. Global Groundwater Governance: Economic Framework and Cross-Country Comparison. Invited submission to *Applied Economic Perspectives and Policy*.

Sutherland, S.A. and Edwards, E.C. Community Impacts of Fishery Privatization. (CEnREP Working Paper No. 19-018). Raleigh, NC: Center for Environmental and Resource Economic Policy. Submitted.

Edwards, E.C., O'Grady, T. Jenkins, D. 2019. Land Ownership and Delay in Oil and Gas Production: A Natural Experiment. (CEnREP Working Paper No. 19-017). Raleigh, NC: Center for Environmental and Resource Economic Policy. In Preparation.

Ge, M. Edwards, E.C., and Oladi, R. Water Trade in General Equilibrium: Theory and Evidence. In Preparation.

Edwards, E.C., Fiszbein, M. and Libecap, G.D. The Long-Term Outcomes of Different Property Rights Allocations to Frontier Land: A Comparison of the Temperate US and Argentina. In Preparation.

Edwards, E.C. and Smith, S.M. Technological Change and Climatic Resiliency: Evidence from Irrigation in the United States. In Preparation.

### **Peer-Reviewed Extension Publications**

Edwards, E.C. and Sutherland, S.A. 2019. A Guide to Municipal Water Conservation Pricing in Utah. *Utah State University Extension Factsheet*, Applied Economics/2019-01pr. Available at: [https://digitalcommons.usu.edu/cgi/viewcontent.cgi?article=2956&context=extension\\_curall](https://digitalcommons.usu.edu/cgi/viewcontent.cgi?article=2956&context=extension_curall)

### **Book Chapters**

Edwards, E.C., Fiszbein, M. and Libecap, G.D. The Colonial Origins of Diverse Property-Rights to Land and the Long-Term Economic Implications in North and South America. Forthcoming in *Ernst Nordtveit and Erich Schanze eds. The Changing Role of Property Law; Rights, Values, and Concepts*, Edward Elgar.

Edwards, E.C. and Leonard, B. Contracting and the Commons: Linking the Insight of Gary Libecap and Elinor Ostrom. 2020. *M. Hansen, R. Simmons, and C. Harmer eds. The Environmental Optimism of Elinor Ostrom*, Center for Growth and Opportunity, Logan, UT, pp. 149-172. (peer-reviewed)

Edwards, E.C. and Libecap, G.D. 2015. Water Institutions and the Law of One price, *R. Halvorsen and D.F. Layton eds. Handbook on the Economics of Natural Resource*, Edward Elgar Publishing, pp. 442-473.

## **Other Publications**

- Branan, R., Edwards, E.C., Hutchens, A., and Sutherland, S.A. 2019. How North Carolinians Benefit from Water Pollution Credit Trading. ***NC State Economist***, NC State University College of Ag and Life Science, Fall 2019.
- Edwards, E.C., Sutherland, S.A., and von Haefen, R.H. 2019. Should I Stay or Should I Go? Coal Ash in North Carolina. ***NC State Economist***, NC State University College of Ag and Life Science, Winter 2019.
- Edwards, E.C. and Sutherland, S.A. 2017. Lobbying. Lobbying. Fathali M. Moghaddam ed. ***SAGE Encyclopedia of Political Behavior***, SAGE Publications, Inc. Thousand Oaks, CA, pp. 448-451.
- Edwards, E.C. 2016. Book Review: Chasing Water: A Guide for Moving From Scarcity to Sustainability. ***Water Economics and Policy***, vol. 2 no. 2.

## **TEACHING**

North Carolina State:

ARE 495: Water Resource Economics (Undergraduate and Masters), S19, S20

ARE 336: Introduction to Resource and Environmental Economics (co-taught), F18

Utah State:

APEC 1600: Natural Resources and American Economic Institutions, S17, F17, S18

APEC 5560: Natural Resource and Environmental Economics, S18

APEC 6500: Resource Economics (Masters), S15, S16, S17, S18

APEC 7500: Resource Economics (PhD), F14, S17

APEC 7950: Graduate Seminar, F15, S16, F16, S17, F17, S18

Univ. of California, Santa Barbara:

ESM 279: Fin. Mgmt. & Envr. Acct. (Masters), S13, S14; visiting: S15, S16

## **PRESENTATIONS**

- 2020 Allied Social Science Association (ASSA) Annual Meeting: Association of Environmental and Resource Economists (AERE) Session; University of Wisconsin Department of Agricultural and Applied Economics; NC State Department of Civil, Construction, Environmental Engineering; Kansas State University; Mountain West Economic History Conference; WRRRI Annual Conference (virtual); Seminar for Water Economics Online (virtual)
- 2019 Western Washington University; Utah State University, Center for Growth and Opportunity; North Carolina Society of Farm Managers and Rural Appraisers; North Carolina Water Resources Research Institute Annual Meeting; The Workshop in Environmental Economics and Data Science (TWEEDS), University of Oregon; Carolina Region Empirical Economics Day (CREED), UNC-Chapel Hill; AERE Summer Conference, Sponsored Session; Workshop on the Ostrom Workshop, Indiana University; NBER Summer Institute: Development of the American Economy; NCSU Department of Biological and Ag. Engineering; Native Waters on Arid Lands

- Tribal Summit; North Carolina Extension Conference; Workshop on Renewing Indigenous Economies, Hoover Institution at Stanford University; NC State Global Change Seminar; American Geophysical Union Annual Conference
- 2018 Utah State University Civil and Environmental Engineering Spring Seminar; Pressing Issues in Public Land Management Workshop, Las Vegas, NV—Invited Speaker; Workshop on Renewing Indigenous Economies, Hoover Institution at Stanford University; Triangle Resource and Environmental Economics Seminar, RTI International, Durham, NC; Symposium on Natural Resource Governance for Young Scholars, Ostrom Workshop at Indiana University
- 2017 ASSA Annual Meeting: AERE Session; University of Florida; North American Association of Fisheries Economists (NAAFE) Forum; “The Challenge of Balancing Competing Demands for Water,” Maui, HI—Keynote Speaker; University of Utah; AERE Summer Conference, Sponsored Session; Society for Institutional & Organizational Economics (SIOE) Annual Conference; University of Alaska Fairbanks College of Fisheries and Ocean Sciences; Occasional Workshop in Environmental and Resource Economics; iUTAH All-Hands Meeting and Symposium; Native Waters on Arid Lands: Third Annual Tribal Summit
- 2016 University of Utah; Washington State University; Western Economics Association International (WEAI) Annual Meeting; USU Plant, Soils, and Climate Seminar
- 2015 SIOE Annual Conference; WEAI Annual Meeting; NAAFE Forum; “Energy, the Environment, and Regulatory Policy” conference, Logan, UT—Invited Speaker; Weber State University; Montana State University
- 2014 Heartland Environmental and Resource Economics Workshop, University of Illinois; Water Markets Design Workshop, UC Santa Barbara—Invited Participant; Penn State University; University of Illinois; University of Oklahoma; Colorado State University
- 2013 WEAI Annual Conference—Presenter, AERE Session, CU Environmental and Resource Economics Workshop—Presenter, UCSB Environmental Politics Conference—Presenter
- 2012 All-University of California Conference in Energy and Environmental Economics, CU Environmental and Resource Economics Workshop, American Geophysical Union Fall Meeting
- 2011 “Priming California’s Water Market Pump” Workshop Participant, International Water Conference at Cornell University—Poster

## **COMPETITIVE GRANTS**

- 2019 NOAA COCA/SARP: “Wastewater Infrastructure Tipping Points: Prioritizing Implementation of Climate Adaptation Plans in Decentralized Systems.” Co-PI, \$296,709, September 2019-August 2021.
- North Carolina Division of Marine Fisheries Commercial Fishing Fund: “Economic Impact Analysis of North Carolina’s Commercial Fisheries.” Co-PI, \$378,960, September 2019-August 2020
- 2018 Utah Agricultural Experiment Station Extension Water Initiative Grant. “Conserving Utah’s Water via Markets: Alternatives for Sustaining Agriculture, Urban Growth, and the Environment.” Co-PI, \$33,988, July 2018-December 2019.

- 2017 Utah Agricultural Experiment Station Extension Water Initiative Grant. “The Potential for Water Conservation through Rate Changes: Economic Analysis and Implementation.” Co-PI, \$19,451, July 2017-June 2018.
- 2016 Utah Agricultural Experiment Station Seed Grant: “Building Utah State's Capabilities in Water, Climate, and the Economy.” PI, \$40,000, July 2016-18.
- 2015 U.S. Department of Agriculture’s Agriculture and Food Research Initiative: “Native Waters on Arid Lands,” Co-PI, USU funding \$327,805 (grant total \$4.5 million), July 2015-2020.
- USU Office of Research and Graduate Studies Research Catalyst Grant: “A Unifying Framework for Environmental Markets: A Case Study of the Bear River Development.” PI, \$19,684, July 2015-16.
- USU Office of Research and Graduate Studies Research Assistantships RFP: “Integrating ecological, economic, and social components to improve effectiveness of landscape restoration.” Co-PI, no direct funding, August 2015-2017.
- 2014 NSF Dissertation Improvement Grant: “Doctoral Dissertation Research in Economics: Institutional Adaptation to a Heterogeneous Common Pool Resource: Management of the Critical High Plains Aquifer in Kansas,” Co-PI, \$15,288, February 2014-2016.
- 2011-12 UCE<sup>3</sup> Mini-Grant: Trading Energy for Water: Desalinization and Firm Behavior in Northern Chile with Gary Libecap. Graduate Assistant, \$16,400.

## **AFFILIATED GRANTS**

- 2019 Western Association of Agricultural Experiment Station Multistate Research Project W4190; no direct funding, November 2019-present.
- 2016-18 NSF Research Traineeship Program. “Graduate Climate Adaptation Research that Enhances Education and Responsiveness of science at the management-policy intersection.” Collaborator—grad student and course development support.
- 2015-17 University of California Multi-campus Research Programs and Initiatives: Legal and Economic Data and Analysis of Environmental Markets; funded for travel; May 2015-Dec. 2016.
- 2014-17 NSF EBSCOR grant: Innovative Urban Transitions and Aridregion Hydro-Sustainability (iUTAH); collaborator, summer salary totaling \$21,465, GSR funding of \$23,000, July 2014-17.
- 2014-19 Western Association of Agricultural Experiment Station Multistate Research Project W3190: Management and Policy Challenges in a Water-Scarce World; no direct funding, November 2014-October 2019

## **FELLOWSHIPS AND AWARDS**

- 2019 Property and Environment Research Center: Lone Mountain Fellow
- 2016 Society for Institutional and Organizational Economics: Ronald H. Coase Dissertation Award, First Runner-up
- 2014 Property and Environment Research Center: Lone Mountain Fellow
- 2013 Property and Environment Research Center: Summer Graduate Fellow

- 2010-12 Decker's Outdoor Corporation Fellow
- 2009-10 UC Santa Barbara Emil Steck, Jr. Fellow
- 2009-14 University of California Regents Special Fellow

## **SERVICE**

- 2019-20 Triangle Resource and Environmental Economics (TREE) seminar coordinator
- 2017-18 The Economics of Property Rights and the Environment seminar coordinator
- 2016-18 Utah State Applied Economics Seminar series coordinator
- Referee: *Agricultural Economics, American Journal of Agricultural Economics, Applied Economic Perspectives & Policy, Australian Journal of Agricultural and Resource Economics, Conservation Letters, Ecological Economics (2), The Economic History Review, Environment and Development Economics, Institutional Economics (2), Journal of Law and Economics, Journal of the American Water Resources Association, Journal of Agricultural and Resource Economics (2), Journal of the Association of Environmental and Resource Economists (3), Journal of Environmental Economics and Management (4), Land Economics, Nature: Food; Public Choice (2), Strategic Behavior and the Environment, Sustainability, Water (2), Water Resources Research, Natural Resource Modeling, American Agricultural Economics Association Annual Meeting (2)*
- Discussant: WEAI Annual Conference: AERE Session (2016), ASSA Annual Meeting: Economic History Association Session (2016), WEAI Conference: AERE Session (2015), WEAI Conference: Water Economics and Institutions Session (2015), ASSA Annual Meeting: AERE Session (2015)
- Chair: Water Resources Research Institute Annual Meeting, Raleigh, NC—session organizer (2019); NAAFE Forum: “Distribution and ITQs”—session organizer (2017); WEAI Conference: AERE Session (2015), Occasional Workshop in Environmental and Resource Economics (2015)

## **STUDENTS SUPERVISED**

### *Advisor*

Kyle Eager, MS Applied Economics 2017, USU  
 Muyang Ge, PhD Economics 2019, USU

### *Committee Member*

Ryan Barnes, PhD Economics 2016, USU  
 Dong Hun Go, PhD Economics 2018, USU  
 Grant Patty, MS Economics 2018, USU  
 Alexandra Naumenko, PhD Economics 2019, NCSU  
 Leslie Sanchez, PhD Agriculture, Food and Environment (2020), Tufts University