

GABRIEL E. LADE

Department of Agricultural, Environmental, and Development Economics
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ACADEMIC POSITIONS AND AFFILIATIONS

The Ohio State University

Department of Agricultural, Environmental, and Development Economics
C. William Swank Chair in Rural-Urban Policy 2025-
Associate Professor 2025-

Macalester College

Associate Professor, Department of Economics 2023-2025
Assistant Professor, Department of Economics 2019-2023

University of Minnesota

Visiting Assistant Professor, Department of Applied Economics 2021

Iowa State University

Center for Agricultural and Rural Development 2015-Present
Assistant Professor, Department of Economics 2015-2019

Cornell University

Visiting Assistant Professor, Dyson School of Applied Economics and Management 2018

National Bureau of Economic Research

Research Economist 2016-2017

EDUCATION

Ph.D., Agricultural and Resource Economics, University of California, Davis, 2015

M.A., Economics, Rutgers University, 2011

B.A., Economics and International Affairs, The George Washington University, 2009

PUBLICATIONS

Refereed articles

Chen, C-T., G.E. Lade, J. Crespi, and D. Keiser. 2025. Size-Based Regulations and Environmental Quality: Evidence from the U.S. Livestock Industry. *American Journal of Agricultural Economics*. Forthcoming

A. Smith and G.E. Lade. 2025. Biofuels: Past, Present, and Future (with Aaron Smith). *Annual Review of Resource Economics*. 17: 105-125

Andarge, T., D. Ghanem, D. Keiser, and G.E. Lade. 2025. Quantifying Threshold Manipulation in the Presence of Rounding: The Case of Lead Monitoring in US Drinking Water. *American Economic Review: Insights*. 7(3): 285-305

Chandra, R., G. Moschini, and G.E. Lade. 2025. Geographical Indications and Welfare: Evidence from the US Wine Market. *American Journal of Agricultural Economics*. 107(2): 670-695

Lade, G.E., J. Comito, J. Benning, C. Kling, and D. Keiser. 2024. Rural Drinking Water Habits, Information Provision, And Pollution Exposure. *Environmental Science and Technology*. 58(33): 14596-14607

Christensen, P., D. Keiser, and G.E. Lade. 2023. Economic Effects of Environmental Crises: Evidence from Flint, Michigan. *American Economic Journal: Economic Policy*. 15(1): 196-232

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

Lade, G.E., and C.-Y.C. Lin Lawell. 2021. The Design of Renewable Fuel Policies and Cost Containment Mechanisms. *Environmental and Resource Economics*. 79(2): pp. 213-247

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

Beatty, T.K.M., G.E. Lade, and J. Shimshack. 2021. Hurricanes and Gasoline Price Gouging. *Journal of the Association of Environmental and Resource Economists*. 8(2): pp. 347-374

Lade, G.E., I Rudik. 2020. Costs of Inefficient Regulation: Evidence from the Bakken. *Journal of Environmental Economics and Management*. 102: 1-19

Lade, G.E., and J. Bushnell. 2019. Fuel Subsidy Pass-Through and Market Structure: Evidence from the Renewable Fuel Standard. *Journal of the Association of Environmental and Resource Economists*. 6(3): 563-592

Keiser, D., G.E. Lade, and I. Rudik. 2018. Air Pollution and Visitation at U.S. National Parks. *Science Advances*. 4(8): 1-6

— Top 1% of all research outputs ever tracked by Altmetric Attention Score (9/2018)

Lade, G.E., C.-Y.C. Lin Lawell, and A. Smith. 2018. Policy Shocks and Market-Based Regulations: Evidence from the Renewable Fuel Standard. *American Journal of Agricultural Economics*. 100(3): 707-731

Lade, G.E., C.-Y.C. Lin Lawell, and A. Smith. 2018. Designing Climate Policy: Lessons from the Renewable Fuel Standard and the Blend Wall. *American Journal of Agricultural Economics*. 100(2): 585-599

Yeh, S., J. Witcover, G.E. Lade, and D. Sperling. 2016. A Review of Low Carbon Fuel Policies: Principles, Program Status, and Future Directions. *Energy Policy*. 97: 220-234

Lade, G.E., and C.-Y.C. Lin Lawell. 2015. The Design and Economics of Low Carbon Fuel Standards. *Research in Transportation Economics*. 52: 91-99

Working papers

Forecasting Credit Supply Demand Balance for the Low-Carbon Fuel Standard Program (with Jim Bushnell, Aaron Smith, Julie Witcover, and Wuzheqian Xiao). Energy Institute at Haas Working Paper 340

Select works in progress

Rate of Return Regulations and the Cost of the Clean Energy Transition (with S. Stowers, M. Nguyen, and Z. Zhao)

Impacts of California's LCFS on U.S. Dairy Herds (with J. Chen)

Market Outcomes of Minimum Price Regulations: Evidence from California's Entry Into the Federal Milk Marketing Order (with Z. Zhao)

Non-peer reviewed publications and commentaries

Reaching and improving Iowa's Private Wells. *Iowa Environmental Council Blog*. 11/2024

Millions of people across the US use well water, but very few test it often enough to make sure it's safe. *The Conversation*. 10/2024

The Iowa Rural Drinking Water Survey: Water Quality Perceptions and Avoidance Behaviors Among Rural Iowa Households with Jackie Comito, Jamie Benning, David Keiser, and Catherine Kling. 10/2022

The Minnesota Clean Car Rule Isn't Nearly Enough with Sarah West. *MinnPost Op-Ed*. 8/18/2021

E15 Demand and Small Refinery Waivers: A Battle over Long-Run Market Share. *CARD Agricultural Policy Review*. Fall 2019

Ozone Pollution in U.S. National Parks is Nearly the Same as in Large Cities with David Keiser and Ivan Rudik. *The Conversation*. July 2018

Environmental Regulation of Hog Feeding Operations with Chen-Ti Chen. *CARD Agricultural Policy Review*. Spring 2018

E15 and E85 Demand Under RIN Price Caps and an RVP Waiver with Bruce Babcock and Sebastien Pouliot. *CARD Policy Brief 18-PB 21*. 2018

Economic Benefits of Nitrogen Reductions in Iowa with Chuan Tang, David Keiser, Catherine Kling, Yongjie Ji, and Yau-Huo Shr. February 2018

Efficient Environmental Regulation in the Unconventional Oil Industry with Ivan Rudik. *CARD Agricultural Policy Review*. Fall 2017

Impact on Merchant Refiners and Blenders from Changing the RFS Point of Obligation with Bruce Babcock and Sebastien Pouliot. *CARD Policy Brief 16-PB 20*. 2016

Fuel Price Impacts of the Renewable Fuel Standard with James Bushnell. *CARD Agricultural Policy Review*. Fall 2016

Ex-Post Costs and RIN Prices Under the Renewable Fuel Standard with C.-Y. Cynthia Lin Lawell and Aaron Smith. *Resources for the Future Discussion Paper 15-22*. 2015

Controlling Compliance Costs for California's LCFS with a Price Ceiling with C.-Y. Cynthia Lin. *UC Davis Policy Institute for Energy, Environment and the Economy Policy Brief*. 2014

A Report on the Economics of California's Low Carbon Fuel Standard and Cost Containment Mechanisms with C.-Y. Cynthia Lin. *Institute of Transportation Studies, UC Davis, Research Report UCD-ITS-RR-13-23*. 2013

CONGRESSIONAL TESTIMONY

U.S. House Energy and Commerce Subcommittee on Environment. Background on Renewable Identification Numbers under the Renewable Fuel Standard. July 25, 2018.

GRANTS AND FELLOWSHIPS

USDA National Institute of Food and Agriculture. The Iowa Rural Drinking Water Initiative: Reducing Pollution Exposure And Increasing Participation In Well Water Quality Testing Programs (co-Project Director. Co-Investigators: Jacqueline Comito (co-PD), David Keiser, and Catherine DeLong). \$591,010. 2026.

Macalester College Collaborative Summer Research Grant. Rate of Return Regulations and Cost of the Clean Energy Transition (Project Director). \$10,100. 2023.

Macalester College Wallace Scholarly Activities Grant. Demand for Mid-Blend Ethanol Fuels in Minnesota (Project Director). \$6,000. 2022.

USDA National Institute of Food and Agriculture. Rural Drinking Water Habits, Information Provision, and Pollution Exposure (Project Director. Co-Investigators: Jamie Benning, Jacqueline Comito, David Keiser, and Catherine Kling). \$500,000. 2019.

University of Virginia Environmental Resilience Institute Rapid Response Grant. Natural Disasters and Price Gouging: Evidence from Gasoline Sales before and after US Hurricanes (co-PI. Co-Investigators: Jay Shimshack and Tim Beatty). \$14,800. 2018.

The E2e Project and Alfred P. Sloan Foundation. Energy Savings from Commercial Energy Efficiency Investments (co-PI. Co-Investigators: Katrina Jessoe). \$256,933. 2017.

Leopold Center for Sustainable Agriculture. Information Provision, Rural Drinking Water Habits, and Pollution Exposure (co-PI. Co-Investigators: Catherine Kling, David Keiser, Jacqueline Comito, and Jamie Benning). \$35,000. 2017.

Iowa Environmental Council. Economics of Clean Water in Iowa (co-PI. Co-Investigators: Catherine Kling). \$25,000. 2017.

The E2e Project and Alfred P. Sloan Foundation. Energy Efficiency Research Seed Grant (co-PI. Co-Investigators: Katrina Jessoe and Edward Spang). \$24,360. 2016.

National Bureau of Economic Research Economics of Energy Markets Grant. Energy Markets Research (co-PI. Co-Investigators: Ivan Rudik). \$23,000. 2016.

Biobased Industries Center. RIN Pass-Through to Retail E85 Prices (co-PI. Co-Investigators: James Bushnell). \$50,000. 2015.

Resources for the Future Retrospective Studies of Regulatory Performance Grant. Ex-Post Analysis of the Renewable Fuel Standard (co-PI. Co-Investigators: C.-Y. Cynthia Lin Lawell and Aaron Smith). \$37,500. 2013.

Henry A. Jastro Research Award. University of California, Davis, College of Agricultural and Environmental Sciences (Recipient). 2014.

Chevron Energy Fellowship. Institute of Transportation Studies, University of California, Davis (Fellow). 2014.

Provost's Dissertation Year Fellowship. University of California, Davis, College of Agricultural and Environmental Sciences (Fellow). 2014.

British Petroleum Corporate Affiliate Fellowship. University of California, Davis, Institute of Transportation Studies (Fellow). 2012.

National Science Foundation IGERT Fellow. Renewable Fuel Solutions for the 21st Century (Fellow). 2010.

HONORS AND AWARDS

Excellence in Refereeing Award. Journal of the Association of Environmental and Resource Economists, 2026.

National Center for Sustainable Transportation (NCST) Outstanding Graduate Student of the Year, 2015.

Honorable Mention, UC Davis Agricultural and Resource Economics Best Ph.D. Dissertation, 2015.

TEACHING

The Ohio State University		
Seminal Readings in Applied Economics		2025-Present
Macalester College		
Intermediate Microeconomics		2019-2025
Principles of Economics		2020, 2024
Industrial Organization		2020, 2023, 2025
Iowa State University		
Introduction to Agricultural Markets		2016-2019
PhD Agricultural Economics		2016-2019
University of California, Davis		
Quantitative Methods in Agricultural Economics		2011
Rutgers University		
International Economics		2011
Introduction to Microeconomics		2010

ADVISING (ISU, CHAIR OR CO-CHAIR, CURRENT PLACEMENT)

Chen-Ti Chen (Ph.D., Ohio State University)	2016-2021
Raj Chandra (Ph.D., Amazon)	2016-2021
Chuan Tang (Post-Doctoral Research Associate, Huazhong Agricultural University)	2017-2019

CONFERENCES AND SEMINARS

2026 (Scheduled): Kenyon College (Edgerton Lectureship Series); Cornell University (Dyson); Penn State (EEEPI)

2025: Ohio State University AEDE

2024: Social Cost of Water Pollution Workshop, Reducing Lead Exposure Workshop (Columbia University)

2023: AERE Annual Meeting, University of Wisconsin, Social Cost of Water Pollution Workshop

2022: Midwest Economics Association (Discussant); Iowa Learning Farms Webinar; University of Minnesota (Applied Economics); AERE Annual Meeting; University of Connecticut

2021: Online Agricultural and Resource Economics Seminar; Iowa Learning Farms Webinar

2020: Online Agricultural and Resource Economics Seminar

2019: AEA Annual Meeting (Discussant); Macalester College

2018: AEA Annual Meeting; National Ethanol Conference; Cornell University (Dyson); ASHEcon; NBER SI; AAEA; Heartland Environmental and Resource Economics Workshop; MIT-CEEPR

2017: AEA Annual Meeting (Presenter and Discussant); Economics of Water and Energy Workshop; NBER Conference on Energy Markets; AERE Annual Meeting; AAEA Annual Meeting; Advances with Field Experiments Conference; Montana State University (Economics); Transportation, Economics, Energy and the Environment Conference

2016: NBER Economics of Energy Markets; AERE Annual Meeting; AAEA Annual Meeting; CU Environmental and Resource Economics Workshop; Heartland Environmental and Resource Economics Workshop; University of Minnesota (Applied Economics); UC Davis (Economics); BIC Biofuels Conference (Berkeley, CA)

2015: University of Illinois (ACE)

2014: Iowa State University; Nanjing Agricultural University; University of Michigan (TE3 Conference); Camp Resources XXI; AAEA Annual Meeting; IAEE Conference; Stanford University (Precourt Institute); UC Davis (ARE)

2013: IAEE Conference; Transportation Research Board Conference; UC Davis (NextSTEPS)

2011: Rutgers University (IGERT Conference); National Science Foundation (IGERT Conference)

SERVICE

Referee: American Economic Journal: Economic Policy, American Journal of Agricultural Economics, American Water Works Water Science, Climatic Change, Economics of Energy and Environmental Policy, Energy Economics, Energy Policy, The Energy Journal, Environmental Science and Technology, Environmental and Resource Economics, European Economic Review, Food Policy, International Economic Review, International Journal of Industrial Organization, Journal of Agricultural and Resource Economics, Journal of the Association of Environmental and Resource Economists, Journal of Economic Literature, Journal of Environmental Economics and Management, Journal of Public Economics, Land Economics, Land Use Policy, Proceedings of the National Academy of Sciences, Resource and Energy Economics, Review of Environmental Economics and Policy, Science, Water Resources and Economics

Professional: AERE Strategic Planning Committee (2025), JAERE Editorial Council (2024-Present), AERE@AAEA Committee Member (2022-2024), AERE Scholars Mentor (2024-2025), AMIE Mentor (2023-2024), AERE/AAEA Fall Virtual Workshop Organizer (2024)

Grant Review Panels: National Center for Sustainable Transportation at UC Davis, Environmental Protection Agency Science to Achieve Results Reviewer, Environmental Protection Agency National Center for Environmental Economics Grants, University of Nebraska, Lincoln Grand Challenges Grant

Department (Ohio State): Academic Affairs Committee (2025-Present), EEDS Oversight Committee (2025-Present), Graduate Seminar Committee (2026)

Department (Macalester): Gateway Prize Reviewer (2020-2021), Sustainability and EJ Advisory Committee (2021), Department Seminar Committee (2020-2025), Textbook Solutions Committee (2022), Secretary of the Faculty (2022-2023), Strategic Planning and Analysis Committee (2024-2025)

Department (Iowa State): Economics Council (2018-2019), Curriculum Committee (2015-2017), Computer Committee (Chair), Hiring Committees (2017, 2018)