

## GABRIEL E. LADE

Phone: 580-278-9683.

Email: glade@applecon.com

---

### ACADEMIC POSITIONS AND AFFILIATIONS

Macalester College

Associate Professor, Department of Economics

2023-Present

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

Chandra, R., G. Moschini, and G.E. Lade. 2024. Geographical Indications and Welfare: Evidence from the US Wine Market. *American Journal of Agricultural Economics*. Forthcoming.

G.E. Lade, J. Comito, J. Benning, C. Kling, and D. Keiser. 2024. Improving Private Well Water Quality Testing

Programs: Experimental Evidence from Iowa. *Environmental Science and Technology*. 55(33): pp. 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): pp. 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, 2019.

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

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. Lade, G.E., C.-Y.C. Lin Lawell, A. Smith. 2018. 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.

Size-Based Regulations and Environmental Quality: Evidence from the U.S. Livestock Industry (with Chen-Ti Chen, John Crespi, and David Keiser). *Conditionally accepted at the American Journal of Agricultural Economics*.

Threshold-based Regulations and Reporting Behavior: Evidence from the Lead and Copper Rule (with Tihitina Andarge, Dalia Ghanem, and David Keiser). *Conditionally accepted at American Economic Review: Insights*.

Biofuels: Past, Present, and Future (with Aaron Smith). *Revise and Resubmit at the Annual Review of Resource Economics*.

## **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 Jamie Benning, Jacqueline Comito, David Keiser, and Catherine Kling).

The Minnesota Clean Car Rule Isn't Nearly Enough (with Sarah West). Op-Ed, MinnPost, 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). University of California, 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). Prepared for the California Air Resources Board. Institute of Transportation Studies, University of California, 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**

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 with 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 with Katrina Jessoe). \$256,933. 2017.

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

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

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

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

Biobased Industries Center. RIN Pass-Through to Retail E85 Prices (co-PI with 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 with 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. 2014.

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

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

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

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

## **HONORS AND AWARDS**

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

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

## **TEACHING**

Macalester College

Intermediate Microeconomics

Principles of Economics

Industrial Organization

Iowa State University

Introduction to Agricultural Markets  
PhD Agricultural Economics

University of California, Davis  
Quantitative Methods in Agricultural Economics

Rutgers University  
International Economics  
Introduction to Microeconomics

## **ADVISING (ISU, Chair or co-Chair, Current Placement)**

Chen-Ti Chen (Ph.D., Ohio State University)

Raj Chandra (Ph.D., Amazon)

Chuan Tang (Post-Doctoral Research Associate, Huazhong Agricultural University)

## **CONFERENCES AND SEMINARS**

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

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 (TE<sup>3</sup> 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, Climatic Change, Economics of Environmental Policy, Energy Economics, Energy Policy, The Energy Journal, Environmental Science and Technology, European Economic Review, Food Policy, 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 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@AAEA Committee Member (2022-2024), AMIE Mentor (2022-2023), Minnesota Council on Economic Education College in Schools Presenter (2023)

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

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

## **CONSULTING AND TESTIFYING**

Carthan et al. v. Snyder

In Re Flint Water Cases, 2018-2024

*United States District Court, Eastern District Michigan Southern Division*, No. 16-cv-104444

Consulting expert for plaintiffs

In Re FTCA Flint Water Cases

Civil Case No. 4:17-cv-11218

*United States District Court, Eastern District Michigan Southern Division*

Testifying expert for plaintiffs

Deposed August 2024