

DEREK C. WIETELMAN

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EDUCATION

University of Maryland	College Park, MD
Ph.D. Candidate in Agricultural & Resource Economics	Current
M.S., Agricultural & Resource Economics	2024
Indiana University	Bloomington, IN
M.P.A., Energy, Environmental Policy & Natural Resource Management	2018
Oklahoma State University	Stillwater, OK
B.S., Statistics; B.A., Political Science	2016

PROFESSIONAL APPOINTMENTS

Department of Agricultural & Resource Economics, University of Maryland	College Park, MD
Graduate Research & Teaching Assistant	2020–Present
Resources for the Future	Washington, DC
Research Assistant	2018–2020
O’Neill School of Public & Environmental Affairs, Indiana University	Bloomington, IN
Research Assistant, Center for Survey Research	2016–2018

RESEARCH

Fields: Environmental & Resource Economics; Applied Econometrics; Water Resources

Peer-Reviewed Publications

Joshua Blonz, Karen Palmer, Casey J. Wichman, & Derek C. Wietelman (2025). “Smart Thermostats, Automation, and Time-Varying Prices.” *American Economic Journal: Applied Economics*, Vol. 17(1), 90–125.

Yusuke Kuwayama, Sheila M. Olmstead, Derek C. Wietelman, & Jiameng Zheng (2020). “Trends in Nutrient Pollution as a Source of Potential Water Quality Damages: A Case Study of Texas, USA.” *Science of the Total Environment*, Vol. 724, 137962.

Arthur G. Fraas, Randall W. Lutter, & Derek C. Wietelman (2019). “The Energy Paradox in Seemingly Competitive Industries: The Use of Energy-Efficient Equipment on Heavy-Duty Tractor Trailers.” *Energy Policy*, Vol. 129, 467–480.

Michelle H.W. Lee, Ashley Clark, John Rupp, Derek C. Wietelman, & John D. Graham (2019). “Public Opinion Toward Hydraulic Fracturing: The Effect of Beyond Compliance and Voluntary Third-Party Certification.” *Energy Policy*, Vol. 128, 306–315.

Derek C. Wietelman & Richard T. Melstrom (2017). “The Effect of Listing the Lesser Prairie Chicken as a Threatened Species on Rural Property Values.” *Journal of Environmental Management*, Vol. 191, 155–161.

Working Papers

Derek C. Wietelman (2025). “Costly Conservation: Welfare Impacts of Drought Restrictions”

⇒ *Manuscript in Preparation (available upon request)*

Derek C. Wietelman, Casey J. Wichman, & Daniel A. Brent (2025). “Conservation and Distributional Consequences of Pricing Scarce Water During Droughts.” *RFF Working Paper Series*, No. 25-07.

⇒ *R&R, Journal of the Association of Environmental and Resource Economists*

Youngho Kim, Erik Lichtenberg, David Newburn, Derek C. Wietelman, & Haoluan Wang (2025). “Emissions Trading Programs for Afforestation: Interactions with Federal Agricultural Conservation Programs.”

⇒ *Selected Paper, AAEA 2025 Annual Meeting*

Research in Progress

Reducing Non-Point Source Nitrogen Loads from Residential Septic Systems in Long Island Sound (with Robert Johnston, Tom Ndebele, David Newburn, Haoluan Wang, & many other collaborators)

Complementary Conservation: Estimating Energy Benefits of Water Conservation (with Casey J. Wichman)

Leak Detection and Cost Recovery Implications of Advanced Metering Infrastructure (with Christopher Tull)

Reports & Other Writings

Lillian Masson, Elizabeth Thilmany, Stephanie Lansing, & Derek C. Wietelman (2025). "Maryland's Nutrient, Animal Waste, and Technology Landscape." *University of Maryland Extension Fact Sheet*, No. FS-2024-0737.

David Newburn, Erik Lichtenberg, Youngho Kim, Derek C. Wietelman, & Haoluan Wang (2024). "Evaluating the Effectiveness of Economic Incentives to Enhance Riparian Buffer Adoption and Environmental Benefits for Water Quality and Carbon Sequestration in Maryland." Report prepared for the Hughes Center for Agro-Ecology.

Stephanie Lansing, ...many other coauthors, & Derek C. Wietelman (2023). "Maryland Animal Waste Technology Assessment and Strategy Planning." Report prepared for the Maryland Department of Agriculture.

Derek C. Wietelman, Karen Palmer, & Casey J. Wichman (2022). "Using Prices, Automation and Data to Shape Electricity Demand and Integrate Renewables into the Grid." *RFF Report*, No. 22-03.

Dallas Burtraw, Maya Domeshek, & Derek C. Wietelman (2020). "Managing Investment Revenues and Costs in the Transportation Climate Initiative Region." *RFF Issue Brief Series*, No. 20-05.

Casey J. Wichman & Derek C. Wietelman (2019). "A Short History of Water Resources Research at Resources for the Future." *Resources Magazine*, Issue 201.

Casey J. Wichman, Derek C. Wietelman, Daniel A. Brent, & Diego S. Cardoso (2019). "Public Comments on 'Options for Implementation of a Statewide Low-Income Water Rate Assistance Program.'" Testimony submitted to California State Water Resources Control Board.

Stacey A. Giroux, Kevin W. Tharp, & Derek C. Wietelman (2019). "Impacts of Implementing an Auto-Advance Feature in Mobile and Web Surveys." *Survey Practice*, Vol. 12, Issue 1.

Academic Seminars & Invited Talks

Inter-American Development Bank, Washington, DC 2025

University of Chicago Becker-Friedman Experiments Group Lunch, Chicago, IL (virtual) 2022

Centre for Net Zero, London, UK (virtual) 2021

Conference & Workshop Presentations

Association of Environmental & Resource Economists (AERE) Summer Conference 2024, 2025

Southern Economic Association (SEA) Annual Meeting 2024

Social Cost of Water Pollution Workshop 2024

California Water Data Summit 2024

Camp Resources 2024

Northeastern Agricultural & Resource Economics (NAREA) Annual Conference 2024

Western Economic Association Annual Conference 2022

TEACHING EXPERIENCE

University of Maryland

HNUH 258A: Harvesting Big Data to Understand Agriculture & Climate Change; TA to Lars Olson 2021

AREC 481: Environmental Economics; TA to Roberton Williams 2021

AREC 365: World Hunger, Population, & Food Supplies; TA to Kenneth Leonard 2020

Indiana University

SPEA-R 625: Environmental Economics & Policy; TA to Kenneth Richards 2018

SPEA-V 517: Public Management Economics; TA to Kenneth Richards 2017

SPEA-E 574: Energy Systems; TA to John Rupp 2017

Oklahoma State University

STAT 2023: Elementary Statistics for Business & Economics; TA to Brenda Masters
POLS 1113: Introduction to American Government; TA to Eric French

2014–2016

2013

AWARDS, HONORS, & INTERNSHIPS

University of Maryland

Jacob K. Goldhaber Travel Grant 2022
Graduate School Dean's Fellowship Award 2020–2021

Indiana University

Graduate Fellowship Funding Award 2016–2018
Short-term Research Consultant, Office of Dean John Graham 2016–2017
Resources for the Future Summer Internship 2017
Best Environmental Policy Paper, Ph.D. Student Association Conference 2017

Oklahoma State University

Phi Beta Kappa, Gamma of Oklahoma Chapter 2016
College of Arts & Sciences Top Ten Most Outstanding Senior 2016
Outstanding Senior in Statistics 2016
Graduated *summa cum laude* 2016
Dual Honors College Degrees 2016
Oklahoma Policy Institute Summer Internship 2015
NASA National Space Grant Geospatial Summer Institute Fellowship 2015
Wentz Undergraduate Research Grant Recipient 2014

PROFESSIONAL SERVICE & MISCELLANY

Referee Service

Energy Economics; Environmental Processes; Journal of the Association of Environmental and Resource Economists;
Journal of Environmental Economics and Management; Land Economics; Water Resources and Economics

Department Service

Hiking Group Organizer (2023–2024); First-Year Graduate Student Mentor (2021–2022); SOARE Undergraduate
Student Mentor (2021); Student Technology Fee Committee (2021); External Review Committee (2021)

Active Organization Memberships

AAEA; AEA; AERE

Programming & Software Skills

ArcGIS; L^AT_EX; Matlab; Python; R; Stata

Last Updated: August 7, 2025