

DEREK C. WIETELMAN

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EDUCATION

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

PROFESSIONAL APPOINTMENTS

Department of Agricultural & Resource Economics, University of Maryland Graduate Research & Teaching Assistant	College Park, MD 2020–Present
Resources for the Future Research Assistant	Washington, DC 2018–2020
O’Neill School of Public & Environmental Affairs, Indiana University Research Assistant, Center for Survey Research	Bloomington, IN 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 Robertson 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	2014–2016
POLS 1113: Introduction to American Government; TA to Eric French	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 <i>summa cum laude</i>	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; \LaTeX ; Matlab; Python; R; Stata

Last Updated: August 7, 2025