

DEREK C. WIETELMAN

Department of Agricultural and Resource Economics, University of Maryland

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EDUCATION

University of Maryland

Ph.D. Candidate in Agricultural and Resource Economics

College Park, MD

2020–Present

Indiana University

M.P.A. (Master of Public Affairs)

Bloomington, IN

2016–2018

Oklahoma State University

B.S., Statistics; B.A., Political Science

Stillwater, OK

2012–2016

PROFESSIONAL APPOINTMENTS

Department of Agricultural and Resource Economics, University of Maryland

Graduate Research Assistant

Graduate Teaching Assistant

College Park, MD

2022–Present

2020–2021

Resources for the Future

Research Assistant

Research Intern

Washington, D.C.

2018–2020

2017

O'Neill School of Public and Environmental Affairs, Indiana University

Graduate Research Assistant: IU Center for Survey Research

Bloomington, IN

2016–2018

RESEARCH

Fields: Environmental and 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, Casey J. Wichman, & Daniel A. Brent (2024). “Conservation and Distributional Consequences of Pricing Scarce Water During Droughts.” *Submitted*.

Research in Progress

- Costly Conservation: Demand and Welfare Implications of Urban Water Prices
- Complementary Conservation: Estimating Energy Benefits of Water Conservation (with Casey J. Wichman)
- Emissions Trading Programs for Afforestation: Interactions with Federal Agricultural Conservation Programs (with Youngho Kim, Erik Lichtenberg, David Newburn, and Haoluan Wang)
- Reducing Non-Point Source Nitrogen Loads from Residential Septic Systems: Identifying Barriers and Opportunities for Large-Scale Water Quality Improvements (with Kaichao Chang, David Dickson, Robert Johnston, Qian Lei-Parent, Tom Ndebele, David Newburn, Jamie Vaudrey, and Haoluan Wang)

Reports, Issue Briefs, and Other Writings

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

Conference Presentations, Invited Talks and Other Seminars

- 2025: UMD AREC Research Workshop; Inter-American Development Bank
- 2024: SEA Annual Meeting; UMD AREC Research Workshop (x2); Social Cost of Water Pollution Workshop; California Water Data Summit; Camp Resources; NAREA Annual Meeting; AERE Summer Conference; UMD AREC Egg Timer
- Pre-2024: UMD AREC Research Workshop (x2); UChicago Becker Friedman Experiments Group Lunch; UMD AREC Egg Timer; WEAI 2022 Annual Conference; UMD AREC Development and Applied Micro Tea; Centre for Net Zero

TEACHING

University of Maryland

HNUH 258A: Harvesting Big Data to Understand Agriculture and Climate Change; TA to Dr. Lars Olson (Fall 2021)
AREC 481: Environmental Economics; TA to Dr. Robertson Williams (Spring 2021)
AREC 365: World Hunger, Population, and Food Supplies; TA to Dr. Kenneth Leonard (Fall 2020)

Indiana University

SPEA-R 625: Environmental Economics and Policy; TA to Dr. Kenneth Richards (Spring 2018)
SPEA-V 517: Public Management Economics; TA to Dr. Kenneth Richards (Fall 2017)
SPEA-E 574: Energy Systems; TA to Prof. John Rupp (Fall 2017)

Oklahoma State University

STAT 2023: Elementary Statistics for Business and Economics; TA to Dr. Brenda Masters (Fall 2014–Spring 2016)
POLS 1113: Introduction to American Government; TA to Dr. Eric French (Fall 2013)

PROFESSIONAL SERVICE AND MISCELLANY

Referee Service

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

Department Service

AREC Graduate Student Hiking Group Organizer (2023–2024); Summer Opportunities in Agricultural Research and the Environment Mentor (2021); AGNR Student Technology Fee Committee (2021); AREC External Review Committee (2021)

Active Organization Memberships

AAEA; AEA; AERE

Programming and Software Skills

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

AWARDS AND HONORS

UMD Jacob K. Goldhaber Travel Grant (2022); UMD Graduate School Dean's Fellowship Award (2020–2021); IU Graduate Fellowship Funding Award (2016–2018); Phi Beta Kappa, Gamma of Oklahoma Chapter (2016); OSU College of Arts and Sciences Top Ten Most Outstanding Senior (2016); OSU Outstanding Senior in Statistics (2016)

Last updated: January 1, 2025