

# DEREK C. WIETELMAN

Department of Agricultural and Resource Economics, University of Maryland

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## EDUCATION

<b>University of Maryland</b> Ph.D. Candidate in Agricultural and Resource Economics	College Park, MD 2020–Present
<b>Indiana University</b> M.P.A. (Master of Public Affairs)	Bloomington, IN 2016–2018
<b>Oklahoma State University</b> B.S., Statistics; B.A., Political Science	Stillwater, OK 2012–2016

## PROFESSIONAL APPOINTMENTS

<b>Department of Agricultural and Resource Economics, University of Maryland</b> Graduate Research Assistant Graduate Teaching Assistant	College Park, MD 2022 - Present 2020 - 2021
<b>Resources for the Future</b> Research Assistant Research Intern	Washington, D.C. 2018 - 2020 2017
<b>O'Neill School of Public and Environmental Affairs, Indiana University</b> 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 (2024). “Smart Thermostats, Automation, and Time-Varying Prices.” *American Economic Journal: Applied Economics*, forthcoming.
- Yusuke Kuwayama, Sheila 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

- Can Smart Devices Lead to Efficient Prices?
- Complementary Conservation: Estimating Energy Benefits of Water Conservation (with Casey J. Wichman)
- Evaluating the Effectiveness of Economic Incentives to Enhance Riparian Buffer Adoption and Environmental Benefits for Water Quality and Carbon Sequestration (with Youngho Kim, Erik Lichtenberg, David Newburn, and Haoluan Wang)
- Modeling Household Lawn Fertilizer Behaviors and Nitrogen Application in Long Island Sound (with David Dickson, Robert Johnston, Qian Lei-Parent, Tom Ndebele, David Newburn, Jamie Vaudrey, and Haoluan Wang)

## Other Writings

- 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

- 2024: SEA Annual Meeting; Social Cost of Water Pollution Workshop; California Water Data Summit; Camp Resources; NAREA Annual Meeting; AERE Summer Conference; UMD AREC Egg Timer; UMD AREC Research Workshop
- 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

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### 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

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### 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)

### Referee Service (\* indicates multiple reviews)

Energy Economics\*; Environmental Processes; Journal of the Association of Environmental and Resource Economists (JAERE); Land Economics

### Active Organization Memberships

AAEA; AEA; AERE

### Programming and Software Skills

ArcGIS; R; Stata; L<sup>A</sup>T<sub>E</sub>X; Matlab

## AWARDS AND HONORS

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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: August 25, 2024**