

DEREK C. WIETELMAN

Department of Agricultural and Resource Economics, University of Maryland

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EDUCATION

University of Maryland Ph.D. Student in Agricultural and Resource Economics	College Park, MD 2020 - Present
Indiana University M.P.A. (Master of Public Affairs) Concentrations: Energy; Environmental Policy and Natural Resource Management	Bloomington, IN 2016 - 2018
Oklahoma State University B.S., Statistics; B.A., Political Science Minors: Economics; Environmental Economics, Politics, and Policy	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; Empirical industrial organization

Peer-Reviewed Publications

- 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

- Joshua Blonz, Karen Palmer, Casey J. Wichman, & Derek C. Wietelman (2023). "Smart Thermostats, Automation, and Time-varying Prices." *RFF Working Paper Series*, No. 21-20 (Updated April 2023).
⇒ *Conditionally accepted at American Economic Journal: Applied Economics*
- Daniel A. Brent, Casey J. Wichman, & Derek C. Wietelman (2023). "Who Pays for Conservation Pricing? Evidence from Nonlinear Rates."
⇒ *Draft prepared and pending submission*

Research in Progress

- Do Commercial Energy Benchmarking Laws Induce a Price Premium? Evidence from U.S. Municipalities?
- 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

- AY 2023-24: UMD AREC Research Workshop
- AY 2022-23: UMD AREC Research Workshop; UChicago Becker Friedman Experiments Group; UMD AREC Egg Timer
- AY 2021-22: Western Economic Association International Conference; UMD AREC Development 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

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

Organization Memberships

AAEA; AEA; AERE

Programming and Software Skills

ArcGIS; R; Stata; L^AT_EX; Matlab

Department Service

UMD AREC Graduate Student Hiking Group, Founder and Lead Organizer (2023 - Present)
 UMD AGNR Student Technology Fee Committee, AREC Representative (2021)
 UMD AREC External Review Committee, Graduate Student Member (2021)

Mentorship Programs

UMD AREC Graduate Program, First Year Student Mentor (2021 - 2022)

IU O'Neill Mentor Collective, Alumni Mentor (2021 - 2022)

UMD Summer Opportunities in Agricultural Research and the Environment (SOARES), PhD Mentor (2021)

AWARDS AND HONORS

UMD Jacob K. Goldhaber Travel Grant (2022)

UMD Graduate School Dean's Fellowship Award (2020 - 2021)

IU SPEA Graduate Fellowship Funding Award (2016 - 2018)

Best Environmental Policy Paper, IU SPEA Ph.D. Student Association Conference (2017)

Phi Beta Kappa, Gamma of Oklahoma Chapter (2016)

OSU College of Arts and Sciences Top Ten Most Outstanding Senior and Outstanding Senior in Statistics (2016)

Last updated: January 27, 2024