

# DEREK C. WIETELMAN

[dcwietel@umd.edu](mailto:dcwietel@umd.edu) • <https://derekwietelman.github.io> • (405)501-2110

## EDUCATION

---

<b>University of Maryland</b>	College Park, MD
Ph.D. Candidate in Agricultural & Resource Economics	Expected May 2026
M.S., Agricultural & Resource Economics	2024
<b>Indiana University</b>	Bloomington, IN
M.P.A., Energy, Environmental Policy & Natural Resource Management	2018
<b>Oklahoma State University</b>	Stillwater, OK
B.S., Statistics; B.A., Political Science (Phi Beta Kappa, <i>summa cum laude</i> )	2016

## RESEARCH

---

### Research Fields

Energy, 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. [\[Ungated PDF\]](#) [\[Online Appendix\]](#) [\[Replication Package\]](#) [\[RFF WP\]](#) [\[DOI\]](#)

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. [\[Ungated PDF\]](#) [\[DOI\]](#)

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. [\[Ungated PDF\]](#) [\[DOI\]](#)

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. [\[Ungated PDF\]](#) [\[DOI\]](#)

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. [\[Ungated PDF\]](#) [\[DOI\]](#)

### Working Papers

Derek C. Wietelman, Casey J. Wichman, & Daniel A. Brent (2025). “Conservation and Distributional Consequences of Pricing Scarce Water During Droughts.” *Job Market Paper. R&R, Journal of the Association of Environmental and Resource Economists.* [\[Current JMP Draft\]](#) [\[RFF WP\]](#)

Youngho Kim, David Newburn, Erik Lichtenberg, Derek C. Wietelman, & Haoluan Wang (2025). “Emissions Trading Programs for Afforestation: Interactions with Federal Agricultural Conservation Programs.” *Selected Paper, AAEA 2025 Annual Meeting.* [\[Current WP Draft\]](#) [\[SSRN\]](#)

### Research in Progress

Costly Conservation: Welfare Impacts of Drought Restrictions. *Manuscript in Preparation.*

Designing Cost-Share Subsidy Programs for Water Quality Improvements: Evidence from a Discrete Choice Experiment (with David Newburn, Robert Johnston, & others). *Pilot Survey Launching Fall 2025.*

Leak Detection and Cost Recovery Implications of Advanced Metering Infrastructure.

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

### Selected Reports

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. [\[URL\]](#)

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. [\[URL\]](#)

Stephanie Lansing, ...other coauthors, & Derek C. Wietelman (2023). “Maryland Animal Waste Technology Assessment and Strategy Planning.” Report prepared for the Maryland Department of Agriculture. [\[URL\]](#)

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. [\[URL\]](#)

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. [\[URL\]](#)

### 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
American Association of Public Opinion Research Annual Conference	2018

## TEACHING EXPERIENCE

---

### University of Maryland Teaching Assistant

HNUH 258A: Harvesting Big Data to Understand Agriculture & Climate Change; Dr. Lars Olson	2021
AREC 481: Environmental Economics; Dr. Roberton Williams	2021
AREC 365: World Hunger, Population, & Food Supplies; Dr. Kenneth Leonard	2020

### Indiana University Teaching Assistant

SPEA-R 625: Environmental Economics & Policy; Dr. Kenneth Richards	2018
SPEA-V 517: Public Management Economics; Dr. Kenneth Richards	2017
SPEA-E 574: Energy Systems; Prof. John Rupp	2017

### Oklahoma State University Teaching Assistant

STAT 2023: Elementary Statistics for Business & Economics; Dr. Brenda Masters	2014–2016
POLS 1113: Introduction to American Government; Dr. Eric French	2013

## PROFESSIONAL APPOINTMENTS

---

<b>University of Maryland</b>	College Park, MD
Graduate Assistant; Department of Agricultural & Resource Economics	2020–Present
<b>Resources for the Future</b>	Washington, DC
Research Assistant; Research & Policy Engagement Program	2018–2020
<b>Indiana University</b>	Bloomington, IN
Graduate Research Assistant; Center for Survey Research	2016–2018

## AWARDS & HONORS

---

Jacob K. Goldhaber Travel Grant	2022
University of Maryland Graduate School Dean's Fellowship Award	2020–2021
Indiana University Graduate Fellowship Funding Award	2016–2018
Best Environmental Policy Paper, IU Ph.D. Student Association Conference	2017
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 (JAERE); Journal of Environmental Economics and Management (JEEM); Land Economics; Urban Water Journal; Water Resources and Economics*

### Programming & Software Skills

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

### Active Organization Memberships

American Economic Association (AEA)  
Association of Environmental and Resource Economists (AERE)  
Agricultural and Applied Economics Association (AAEA)

### Other Work Experience

Resources for the Future Summer Internship (2017)  
Short-term Research Consultant, Office of Dean John Graham, Indiana University (2016–2017)  
Oklahoma Policy Institute Summer Internship (2015)

## REFERENCES

---

### David A. Newburn\*

Associate Professor  
University of Maryland  
Email: [dnewburn@umd.edu](mailto:dnewburn@umd.edu)

### Louis D. Preonas\*

Associate Professor  
University of Maryland  
Email: [lpreonas@umd.edu](mailto:lpreonas@umd.edu)

### Casey J. Wichman

Associate Professor  
Georgia Institute of Technology  
Email: [wichman@gatech.edu](mailto:wichman@gatech.edu)

### M.R. Sharan#

Assistant Professor  
University of Maryland  
Email: [sharan@umd.edu](mailto:sharan@umd.edu)

### Cory B. Smith#

Assistant Professor  
University of Maryland  
Email: [cbsmith@umd.edu](mailto:cbsmith@umd.edu)

\*—Dissertation Co-Advisor

#—Job Market Placement Director