

CASEY J. WICHMAN

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EMPLOYMENT AND AFFILIATIONS

2015– **Fellow**, Resources for the Future
2016– **Research Network Expert**, Public Policy Institute of California’s Water Policy Center
2017– **Adjunct Faculty**, Georgetown University, Edmund A. Walsh School of Foreign Service
2015–2017 **Technical Consultant**, National Academies, *Assessing Approaches to Updating the Social Cost of Carbon*

EDUCATION

Ph.D. Agricultural and Resource Economics, University of Maryland, College Park, 2012–2015
Dissertation: Information and environmental policy
Advisers: Robertson C. Williams III & Maureen Cropper
Recipient of AERE and AAEA Outstanding Doctoral Dissertation Awards
M.S. Agricultural and Resource Economics, University of Maryland, College Park, 2012–2014
M.S. Economics, North Carolina State University, 2009–2011
B.A. Economics (minor: English), *cum laude*, Ithaca College, 2005–2009

RESEARCH INTERESTS

Environmental, energy, and natural resource economics · public economics · applied econometrics

PEER-REVIEWED PUBLICATIONS

Wichman, Casey J., “Interpreting nonlinear semi-elasticities in reduced-form climate damage estimation,” 2017. **Climatic Change**, conditionally accepted.

Eyer, Jonathan and Casey J. Wichman, “Does water scarcity shift the electricity generation mix toward fossil fuels? Empirical evidence from the United States,” **Journal of Environmental Economics and Management**, vol. 87, pp. 224–241, 2018.

Hamilton, Timothy and Casey J. Wichman, “Bicycle infrastructure and traffic congestion: Evidence from DC’s Capital Bikeshare,” **Journal of Environmental Economics and Management**, vol. 87, pp. 72–93, 2018.

Wichman, Casey J., “Information provision and consumer behavior: A natural experiment in billing frequency,” **Journal of Public Economics**, vol. 152, pp. 13–33, 2017.

Wichman, Casey J. and Paul J. Ferraro, “A cautionary tale on using panel data estimators to measure program impacts,” **Economics Letters**, vol. 151, pp. 82–90, 2017.

Wichman, Casey J., “Incentives, green preferences, and private provision of impure public goods,” **Journal of Environmental Economics and Management**, vol. 76, pp. 208–220, 2016.

Wichman, Casey J., Laura O. Taylor, and Roger H. von Haefen, “Conservation policies: Who responds to price and who responds to prescription?” **Journal of Environmental Economics and Management**, vol. 76, pp. 114–134, 2016.

Wichman, Casey J., “Perceived price in residential water demand: Evidence from a natural experiment,” **Journal of Economic Behavior & Organization**, vol. 107, pp. 308–323, 2014.

WORKING PAPERS

LaRiviere, Jacob, Casey J. Wichman, and Brandon Cunningham, “Using k -means clustering to estimate heterogeneous treatment effects: An application to water infrastructure failure,” [RFF Discussion Paper 16-33](#), 2016. (Undergoing revision)

Wichman, Casey J. and Brandon Cunningham, “Notching for free: Do cyclists reveal the value of time?” [RFF Working Paper 17-17](#), 2017. (Under review)

Chan, Nathan W. and Casey J. Wichman, “The effects of climate on leisure demand: Evidence from North America,” [RFF Working Paper 17-20](#), 2017.

RESEARCH IN PROGRESS

“Becker versus the behavioralist: Using targeted measures to promote compliance with outdoor watering restrictions,” (with Michael Price, Klaus Moeltner, Anita Castledine, and Shawn Stoddard)

“On approximating nonmarket welfare impacts of climate change” (with Nathan Chan)

“The roles of price and persuasion on consumer behavior,” (with Danny Brent)

“Water affordability in the U.S.” (with Diego Cardoso)

“Pro-social costs of carbon?” (with Nathan Chan)

“Learning to lease: Understanding information asymmetry in natural gas leasing,” (with Brandon Cunningham)

OTHER PUBLICATIONS

- “The strategic costs of carbon emissions: Global versus domestic policy considerations,” *Resources*, No. 195, Fall 2017.
- Wichman, Casey J., “Information and environmental policy,” (dissertation abstract), **Journal of the Association of Environmental and Resource Economists**, 2017.
- National Academies of Sciences, Engineering, and Medicine. Valuing Climate Damages: Updating Estimation of the Social Cost of Carbon Dioxide. Washington, DC: The National Academies Press, 2017. (Contributing author).
- Wichman, Casey J., Book Review: “Thirst for Power: Energy, Water, and Human Survival,” **Water Economics and Policy**, 1680007, 2016.
- “California’s Water: Water for Cities,” (with Ellen Hanak, Ken Baerenklau, Alvar Escriva-Bou, Jay Lund, Kurt Schwabe, Newsha Ajami, J. R. DeShazo, David Mitchell, Jean-Daniel Saphores, and David Sedlak), Public Policy Institute of California, October 2016.
- “Water conservation policies: Prices versus restrictions,” *Resources*, No. 193, pp. 18–19, Fall 2016.
- National Academies of Sciences, Engineering, and Medicine. Assessment of Approaches to Updating the Social Cost of Carbon: Phase 1 Report on a Near-Term Update. Washington, DC: The National Academies Press, 2016. (Contributing author).
- “Commentary: Does bicycle infrastructure reduce traffic congestion?” *Resources*, No. 191, pp. 6–7, Winter 2016.
- Williams, Roberton C. and Casey J. Wichman, “Macroeconomic effects of carbon taxes,” in I. Parry, A. Morris, and R. Williams (eds.), **Implementing a US Carbon Tax: Challenges and Debates**, Routledge Explorations in Environmental Economics, 2015.
- “Technical assistance for sustainable urban water use,” (with Jeff Hughes, Mary Tiger, Shadi Eskaf, and Christine Boyle), Water Resources Research Institute of the University of North Carolina, 2012.
- “An assessment of U.S. air quality policy: Past, present, and future.” *Proceedings of the New York State Economics Association*. vol. 1, pp. 124-133, 2008.

TEACHING EXPERIENCE

Instructor, Georgetown University

IPEC 329: “Environmental economic policy: Domestic and global applications,” Spring 2017.

Teaching Assistant, University of Maryland, College Park

Profs. Anna Alberini and Richard Just; AREC 624: “Applied Econometrics II” (Ph.D. level), Spring 2014

Prof. David Newburn; AREC 455: “Economics of Land Use,” Fall 2012

Teaching Assistant, Ithaca College

Prof. William Kolberg; ECON281: “Environmental Economics.” ECON299: “Market Experiments.” ECON122: “Principles of Microeconomics.”

INVITED SEMINARS AND CONFERENCE PRESENTATIONS

- 2017: ASSA Annual Meeting (Chicago, IL), Economics of Water and Energy (San Diego, CA) Colby College (Economics), Society of Benefit-Cost Analysis (Washington, DC), East Carolina University (Economics), AERE Summer Conference (Pittsburgh, PA), University of Minnesota (Applied Economics), Cornell University (Dyson)
- 2016: Southern Economic Association Annual Meeting (Washington, DC); 2016 Urban Water Demand Roundtable (Denver, CO); Camp Resources XXIII (Wilmington, NC); AERE Summer Conference (Breckenridge, CO) – presenter & discussant
- 2015: Association for Public Policy Analysis and Management (Miami, FL) – presenter & discussant; ESRC Workshop on “Managing Water Demand,” University College London (London, UK); EPA National Center for Environmental Economics (Washington, DC); AERE sessions at AAEA Annual Meetings (San Francisco, CA); AERE Summer Conference (San Diego, CA); University of Georgia (Agricultural and Applied Economics); University of Massachusetts–Amherst (Resource Economics); UCLA (Luskin School of Public Affairs); University of Kansas (Economics); Resources for the Future; Cornell University (PAM); American University (Economics); University of South Carolina (Economics)
- 2014: Southern Economic Association Annual Meeting (Atlanta, GA); Association for Public Policy Analysis and Management (Albuquerque, NM); Heartland Environmental and Resource Economics Workshop (Urbana-Champaign, IL); North Carolina State University–CEnREP Lunch Colloquium (Raleigh, NC); CU Boulder Environmental and Resource Economics Workshop (Vail, CO); Duke University–Public/IO Lunch Seminar (Durham, NC); International Water Resource Economics Consortium–11th Annual Meeting (Washington, DC); AERE sessions at AAEA Annual Meetings (Minneapolis, MN)
- Pre-2014: Causal Effects in Energy and Environmental Economics–University of Tennessee (Knoxville, TN); AERE sessions at AAEA Annual Meetings (Seattle, WA); AERE Summer Conference (Asheville, NC); Water Resources Research Institute–Annual Conference (Raleigh, NC); North Carolina State University–CEnREP Lunch Colloquium (Raleigh, NC); Camp Resources XVIII (Wilmington, NC); New York State Economics Association Annual Meetings (Ithaca, NY)

HONORS AND FELLOWSHIPS

- ▷ Association of Environmental and Resource Economists (AERE) Wallace E. Oates Outstanding Doctoral Dissertation Award, 2017
- ▷ Agricultural and Applied Economics Association (AAEA) Outstanding Doctoral Dissertation Award, 2016
- ▷ Dr. and Mrs. Bill V. Lessley Dissertation Excellence Award, Department of Agricultural and Resource Economics, University of Maryland, College Park, 2015
- ▷ Bessie H. DeVault Scholarship for best paper by a second-year student, Department of Agricultural and Resource Economics, University of Maryland, College Park, 2014
- ▷ Dean's Fellowship, Department of Agricultural and Resource Economics, University of Maryland, College Park, 2014–2015
- ▷ Jacob K. Goldhaber Travel Grant, University of Maryland, College Park, 2014
- ▷ Outstanding Teaching Assistant Award, College of Agriculture and Natural Resources, University of Maryland, College Park, 2014
- ▷ Distinguished Graduate Student Teacher, University of Maryland, College Park, 2014
- ▷ Rhona Lantin Scholarship for best paper by a first-year student, Department of Agricultural and Resource Economics, University of Maryland, College Park, 2013
- ▷ Graduate Assistantship, University of Maryland, College Park, 2012–2015
- ▷ ETD Master's Thesis Award, Conference of Southern Graduate Schools, 2012
- ▷ USDA National Needs Fellowship, North Carolina State University, 2009–2011
- ▷ University Graduate Research Fellowship, North Carolina State University, 2009–2010
- ▷ Departmental honors in economics, Ithaca College, 2009

FUNDED RESEARCH

- Co-investigator, “Updating the Social Cost of Carbon Dioxide: Implementing the National Academies Recommendations,” (with Ray Kopp, Kevin Rennert, Kristin Hayes, & Richard Newell), partially funded by the Sloan Foundation (2017–)
- Co-investigator, “The Law & Economics of Private Shale Gas Leasing,” (PI: Alan Krupnick), funded by the Sloan Foundation (2015–2017)
- Co-investigator, “The economic value of water infrastructure resilience” (PI: Jacob LaRiviere), funded by the Department of Homeland Security (2015–2016).
- Co-investigator, “Shifting baselines in water utility management: New tools for addressing financial impacts of system transitions,” funded by the NC Water Resources Research Institute (2011–2012).

PROFESSIONAL SERVICE

Referee for: American Journal of Agricultural Economics, Applied Economics Perspectives & Policy, Ecological Economics, Energy Economics, The Energy Journal, Energy Policy, Journal of the Association of Environmental and Resource Economists, Journal of Consumer Affairs, Journal of Environmental Economics and Management, Journal of Policy Analysis and Management, Land Economics, Resource and Energy Economics, Sustainable Cities and Society, Transportation Research Part C, Water, Water Resources Research

Association of Environmental and Resource Economists (AERE) Program Committee, 2016, 2017

Agricultural and Applied Economics Association (AAEA) Program Committee, 2016, 2017

Affiliations: AEA, AERE, AAEA, IWREC

Previous affiliations:

- ▷ 2014–2015, **Visiting Research Scholar**, Department of Economics, Duke University
- ▷ 2012–2015, **Graduate Assistant**, University of Maryland, College Park
- ▷ 2011–2012, **Environmental Economics Analyst**, Environmental Finance Center, UNC–Chapel Hill

REFERENCES

- Roberton C. Williams III**, University of Maryland, College Park. Email: roberton@umd.edu
- Maureen Cropper**, University of Maryland, College Park. Email: cropper@econ.umd.edu
- Richard Just**, University of Maryland, College Park. Email: rjust@umd.edu
- Laura O. Taylor**, North Carolina State University. Email: laura.taylor@ncsu.edu
- Roger H. von Haefen**, North Carolina State University. Email: roger_von_haefen@ncsu.edu