

# Casey J. Wichman

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## Employment and affiliations

- 2019–           **Research Director**, Energy & Environment Lab, University of Chicago  
2019–           **Research Fellow**, Energy Policy Institute at the University of Chicago (EPIC)  
2015–2019      **Fellow**, Resources for the Future  
2016–           **Research Network Expert**, Public Policy Institute of California’s Water Policy Center  
2017            **Adjunct Faculty**, Georgetown University, Walsh School of Foreign Service  
2015–2017      **Technical Consultant**, National Academies of Sciences, *Committee on Assessing Approaches to Updating the Social Cost of Carbon*  
2014–2015      **Visiting Research Scholar**, Duke University, Department of Economics  
2011–2012      **Environmental Economics Analyst**, UNC-Chapel Hill, Environmental Finance Center

## Education

- Ph.D.           University of Maryland, Agricultural and Resource Economics, 2015  
                  ○ Recipient of AERE and AAEA Outstanding Doctoral Dissertation Awards  
M.S.            University of Maryland, Agricultural and Resource Economics, 2014  
M.S.            North Carolina State University, Economics, 2011  
B.A.            Ithaca College, Economics (minor: English), *cum laude*, 2009

## Research interests

Environmental, natural resource, and energy economics; public economics; applied econometrics; behavior

## Peer-reviewed publications

- [9] Bellemare, Marc F. and Casey J. Wichman, “Elasticities and the inverse hyperbolic sine transformation,” *Oxford Bulletin of Economics and Statistics*, Forthcoming, 2019.
- [8] Wichman, Casey J., “Interpreting nonlinear semi-elasticities in reduced-form climate damage estimation,” *Climatic Change*, vol. 148, no. 4, pp. 641–648, 2018.
- [7] 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.
- [6] Hamilton, Timothy L. 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.
- [5] Wichman, Casey J., “Information provision and consumer behavior: A natural experiment in billing frequency,” *Journal of Public Economics*, vol. 152, pp. 13–33, 2017.
- [4] 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.
- [3] 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.
- [2] 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.
- [1] 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**

- [5] Cardoso, Diego and Casey J. Wichman, "Water affordability in the United States," 2019. (*Undergoing revision*)
- [4] Cunningham, Brandon, Jacob LaRiviere, and Casey J. Wichman, "Clustered into control: Heterogeneous causal impacts of water infrastructure failure," RFF Discussion Paper 16-33, 2018. (*Undergoing revision*)
- [3] Wichman, Casey J. and Brandon Cunningham, "Notching for free: Do cyclists reveal the value of time?" RFF Working Paper 17-17, 2017. (*Undergoing revision*)
- [2] Chan, Nathan W. and Casey J. Wichman, "Climate change and recreation: Evidence from North American cycling," RFF Working Paper 17-20, 2018. (*Under review*)
- [1] Chan, Nathan W. and Casey J. Wichman, "Valuing nonmarket impacts of climate change: From reduced form to welfare," RFF Working Paper 18-06, 2018. (*Under review*)

## **Research in progress**

- [7] "Do behavioral nudges interact with prevailing economic incentives? Pairing experimental and quasi-experimental evidence from water consumption," (with Danny Brent)
- [6] "Creating comfort in a warming world: The role of smart thermostats," (with Joshua Blonz, Karen Palmer, Andrew Royal, and Margaret Walls)
- [5] "Do nonlinear prices work? Distributional and efficiency consequences of budget-based water rates," (with Danny Brent and Derek Wietelman)
- [4] "Does charitable giving make you happier? Evidence from Twitter," (with Nathan Chan)
- [3] "Price perception and willingness to vote for public goods," (with Corey Lang and Shanna Pearson-Merkowitz)
- [2] "Learning to lease: Understanding information asymmetry in natural gas leasing," (with Brandon Cunningham and Charles Mason)
- [1] "Becker versus the behavioralist: Using targeted measures to promote compliance with outdoor watering restrictions," (with Michael Price, Klaus Moeltner, Anita Castledine, and Shawn Stoddard)

## **Other writing and publications**

- [16] Wichman, Casey J. and Derek C. Wietelman, "A history of water resources research at Resources for the Future," *Resources*, No. 201, May 2019.
- [15] Wichman, Casey J., Derek C. Wietelman, Daniel A. Brent, and Diego S. Cardoso, "Public Comments on "Options for Implementation of a Statewide Low-Income Water Rate Assistance Program." Submitted to the California State Water Resources Control Board on February 1, 2019.
- [14] Walls, Margaret, Casey J. Wichman, and Kevin Ankney, "Nature-Based Recreation: Understanding Campsite Reservations in National Parks," *Resources for the Future Report*, November 2018.
- [13] "California's Water: Water for Cities," (with Ellen Hanak, Alvar Escrivá-Bou, Henry McCann, Newsha Ajami, Ken Baerenklau, David Jassby, Jay Lund, David Mitchell, Kurt Schwabe, and David Sedlak), *Public Policy Institute of California*, November 2018.
- [12] Walls, Margaret, Casey J. Wichman, and Kevin Ankney, "Overcrowding in national parks: Seeing the forest for the trees with better data." *Resources*, No. 199, Fall 2018.

- [11] Wichman, Casey J., "The strategic costs of carbon emissions: Global versus domestic policy considerations," *Resources*, No. 195, Fall 2017.
- [10] Wichman, Casey J., "Information and environmental policy," *Journal of the Association of Environmental and Resource Economists*, 2017. (dissertation abstract)
- [9] 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).
- [8] Wichman, Casey J., "Book Review: 'Thirst for Power: Energy, Water, and Human Survival,'" *Water Economics and Policy*, 1680007, 2016.
- [7] "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.
- [6] Wichman, Casey J., "Water conservation policies: Prices versus restrictions," *Resources*, No. 193, pp. 18–19, Fall 2016.
- [5] 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).
- [4] Wichman, Casey J., "Commentary: Does bicycle infrastructure reduce traffic congestion?" *Resources*, No. 191, pp. 6–7, Winter 2016.
- [3] Williams, Robertson 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.
- [2] "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.
- [1] Wichman, Casey J. "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, Edmund A. Walsh School of Foreign Service  
IPEC 329: "Environmental economic policy: Domestic and global applications," (Spring 2017).

**Teaching Assistant**, University of Maryland, Dept. of Agricultural and Resource Economics  
AREC 624: "Applied Econometrics II" (Ph.D. core), Profs. Just & Alberini (Spring 2014).  
AREC 455: "Economics of Land Use," Prof. Newburn (Fall 2012).

**Teaching Assistant**, Ithaca College, Dept. of Economics  
ECON281: "Environmental Economics," ECON299: "Market Experiments," ECON122: "Principles of Microeconomics," Prof. Kolberg (multiple semesters).

### **Guest Lectures**

- o "Water Demand," March 7, 2019, Bates College, ECON 325, Prof. Lynne Lewis

### **Invited seminars and conference presentations:**

Arizona State University (Economics), 2019; University of Chicago (Energy & Environment Lab), 2019; EPA National Center for Environmental Economics, 2018; University of Southern California (Price), 2018; Cornell University (Dyson), 2017; University of Minnesota (Applied Economics), 2017; East Carolina University (Economics), 2017; Colby College (Economics), 2017; EPA National Center for Environmental Economics, 2015;

University of Georgia (Agricultural and Applied Economics), 2015; University of Massachusetts–Amherst (Resource Economics), 2015; UCLA (Luskin), 2015; University of Kansas (Economics), 2015; Resources for the Future, 2015; Cornell University (PAM), 2015; American University (Economics), 2015; University of South Carolina (Economics), 2015; Duke University (Public/IO Lunch), 2014; NC State University (CEnREP Lunch), 2014

**AERE:** 2013, 2015, 2016, 2017, 2019

**AAEA:** 2013, 2014, 2015, 2016

**ASSA:** 2017, 2018, 2019

**SEA:** 2014, 2016, 2018

**APPAM:** 2014, 2015

**NBER Summer Institute:** 2019

**World Congress of Environmental and Resource Economists:** 2018

**Camp Resources:** 2011, 2016

**Heartland Environmental and Resource Economics Workshop:** 2014, 2018

**CU Boulder Environmental and Resource Economics Workshop:** 2014

**Northeast Workshop on Energy and Environmental Policy:** 2018, 2019

**Miscellaneous:** ecobee (Toronto, ON), Social Cost of Water Pollution (Cornell University), Urban Water Demand Roundtable (Tempe, AZ); University of Maryland Environmental Tax Workshop; Economics of Water and Energy Workshop (San Diego, CA); Urban Water Demand Roundtable (Denver, CO); ESRC Workshop on “Managing Water Demand,” University College London (London, UK); International Water Resource Economics Consortium–11th Annual Meeting (Washington, DC); Causal Effects in Energy and Environmental Economics–University of Tennessee (Knoxville, TN); Water Resources Research Institute–Annual Conference (Raleigh, NC)

### **Honors, awards, and fellowships**

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

### **Funded research**

- Co-investigator, “The law & economics of private shale gas leasing,” (PI: Alan Krupnick), Sloan Foundation (2015–2017)
- Co-investigator, “The economic value of water infrastructure resilience,” (PI: Jacob LaRiviere), Department of Homeland Security (2015–2016).
- Co-investigator, “Shifting baselines in water utility management: New tools for addressing financial impacts of system transitions,” NC Water Resources Research Institute (2011–2012).

### **Professional service**

Referee for: *American Economic Journal: Economic Policy*, *American Journal of Agricultural Economics*, *Applied Economics Perspectives & Policy*, *Ecological Economics*, *Economics Letters*, *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*, *PLOS ONE*, *Resource and Energy Economics*, *Sustainable Cities and Society*, *Transportation Research Part C*, *Utilities Policy*, *Water, Water Resources Research*

Grant reviewer: *University of Wisconsin Water Resources Institute, University of Hawai'i Water Resources Research Center*

*Committees:*

AERE Program Committee: 2016, 2017, 2019

AAEA Program Committee: 2016, 2017, 2018

World Congress of Environmental and Resource Economists (WCERE) Program Committee: 2018

Technical Assistance Committee, UC Davis Center for Water-Energy Efficiency, California Department of Water Resources M&V, 2019

*Professional memberships:*

AEA, AERE, AAEA, IWREC (International Water Resource Economics Consortium)

*Internal service:*

RFF Fellow hiring committee (2017–2018); RFF Academic Seminar Committee (2018–2019)

**References**

Upon request.

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