

# Casey J. Wichman

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## Primary appointments

2020– **Assistant Professor**, School of Economics, Georgia Institute of Technology  
2019–2020 **Research Director**, Energy & Environment Lab, University of Chicago  
2015–2019 **Fellow**, Resources for the Future

## Affiliations

2019– **University Fellow**, Resources for the Future  
2022– **Editorial Council**, *Journal of Environmental Economics and Management*  
2022– **Editorial Board**, *Resource and Energy Economics*

## Education

Ph.D. Ag. & Resource Economics, University of Maryland, 2015  
    ◇ *Received AERE and AAEA outstanding doctoral dissertation awards*  
M.S. Ag. & Resource Economics, University of Maryland, 2014  
M.S. Economics, North Carolina State University, 2011  
B.A. Economics (minor: English), Ithaca College, *cum laude*, 2009

## Research

### Publications

16. Wichman, Casey J. and Nathan W. Chan, "Preheating prosocial behavior," **Economic Journal**, *Conditionally accepted*.
15. Prest, Brian, Casey J. Wichman, and Karen Palmer, "RCTs against the machine: Can ML prediction methods recover experimental treatment effects?" **Journal of the Association of Environmental and Resource Economists**, 2023. *Forthcoming*.
14. Cardoso, Diego and Casey J. Wichman, "Water affordability in the United States," **Water Resources Research**, vol. 58, issue 12, 2022.
13. Chan, Nathan W. and Casey J. Wichman, "Valuing nonmarket impacts of climate change on recreation: From reduced form to welfare," **Environmental and Resource Economics**, vol. 81, pp. 179–213, 2022.
12. Lewis, Lynne and Casey J. Wichman, "What should we be teaching students about the economics of climate change: Is there a consensus?" **International Review of Environmental and Resource Economics**, vol. 15, no. 3, pp. 203–233, 2021.
11. Cunningham, Brandon, Jacob LaRiviere, and Casey J. Wichman, "Clustered into control: Heterogeneous causal impacts of water infrastructure failure," **Economic Inquiry**, vol. 59, no. 3, pp. 1417–1439, 2021.
10. Chan, Nathan W. and Casey J. Wichman, "Climate change and recreation: Evidence from North American cycling," **Environmental and Resource Economics**, vol. 76, pp. 119–151, 2020.
9. Bellemare, Marc F. and Casey J. Wichman, "Elasticities and the inverse hyperbolic sine transformation," **Oxford Bulletin of Economics and Statistics**, vol. 82, no. 1, pp. 50–61, 2020.
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 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*

4. Wichman, Casey J. and Brandon Cunningham, "Notching for free: Do cyclists reveal the value of time?" RFF Working Paper 17-17, 2017. (R&R, **Journal of Environmental Economics and Management**)
3. Brent, Daniel A., and Casey J. Wichman, "Do behavioral nudges interact with prevailing economic incentives? Pairing experimental and quasi-experimental evidence from water consumption," Resources for the Future Working Paper 22-2, 2022. (R&R, **Journal of Public Economics**)
2. Blonz, Joshua, Karen Palmer, Casey J. Wichman, and Derek C. Wietelman, "Automation, smart thermostats, and time-varying pricing," Resources for the Future Working Paper 21-20, 2021. (R&R, **American Economic Journal: Applied Economics**)
1. Lang, Corey, Casey J. Wichman, Michael Weir, Shanna Pearson-Merkowitz, "Price perception and willingness to vote for public goods," 2022. (Under review).

#### *Select research in progress*

3. "Do nonlinear prices work? Distributional and conservation consequences of budget-based water rates," (with Danny Brent and Derek Wietelman)
2. "Social media influences national park visitation."
1. "Causes and consequences of inefficient municipal water pricing."

#### *Other writing and publications*

18. Wichman, Casey J., "The unequal burdens of water scarcity," **Nature Water**, Issue 1, 2023.
17. Wietelman, Derek, Karen Palmer, and Casey J. Wichman, "Using Prices, Automation, and Data to Shape Electricity Demand and Integrate Renewables into the Grid," Resources for the Future Report, March 31, 2022.
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 Escriva-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, 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.
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

### Georgia Tech

ECON 7102: Environmental Economics I (Ph.D. field course); Fall 2022 (12 students)  
 ECON 4803: Economics of Climate Change; Fall 2021 (20 students), Fall 2022 (32 students)  
 ECON 2100: Economics & Policy; Spring 2021 (141 students), Spring 2022 (169 students)

### Georgetown University

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

### University of Maryland

AREC 624: Applied Econometrics II (Ph.D. core) (TA), Spring 2014.  
 AREC 455: Economics of Land Use (TA), Fall 2012.

### Ithaca College

ECON281: Environmental Economics (TA)  
 ECON299: Market Experiments (TA)  
 ECON122: Principles of Microeconomics (TA)

## Seminars and presentations

### Academic seminars

2023: (includes scheduled) University of Calgary, University of Houston, UNC–Chapel Hill  
 2022: World Bank, Indiana University (Young Scholars Symposium on Natural Resource Governance)  
 2021: #OARES (Online Agricultural and Resource Economics Seminar)  
 2020: University of Chicago (EPIC), University of Minnesota (APEC), Georgia Tech (Economics), University of Wisconsin (AAE), University of Maryland (AREC)  
 2019: Penn State (EEEP), Penn State (Water Insights), Arizona State University (Economics), University of Chicago (Energy & Environment Lab), EPA National Center for Environmental Economics  
 2018: University of Southern California (Price)  
 2017: Cornell University (Dyson), University of Minnesota (APEC), East Carolina University (Economics), Colby College (Economics)

2015: EPA National Center for Environmental Economics, University of Georgia (AAE), University of Massachusetts Amherst (Resource Economics), UCLA (Luskin), University of Kansas (Economics), Resources for the Future, Cornell University (PAM), American University (Economics), University of South Carolina (Economics), Duke University (Public/IO Lunch), NC State University (CEnREP Lunch)

#### *Conferences & workshops*

- AERE: 2013, 2015, 2016, 2017, 2019, 2020 (virtual), 2022
- AAEA: 2013, 2014, 2015, 2016
- ASSA: 2017, 2018, 2019, 2021 (virtual), 2023
- SEA: 2014, 2016, 2018, 2019, 2021, 2022
- APPAM: 2014, 2015
- NBER Summer Institute: 2019 (discussant), 2021
- 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
- Appalachian Experimental & Environmental Economics Workshop: 2022

#### *Miscellany*

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

- Student Recognition of Excellence in Teaching: Fall Semester 2022 CIOS Honor Roll, Georgia Tech
- Lone Mountain Fellowship, Property and Environment Research Center, Bozeman, MT, Summer 2022
- Spring 2021 Student Recognition of Excellence in Teaching: Class of 1934 CIOS Honor Roll, Georgia Tech
- 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

- Principal Investigator, COVID Faculty Relief Funding, Georgia Tech COVID-19 Faculty Impacts Task Force, \$16,700, 2022.
- Principal Investigator, "How can water utilities adapt to climate change?" Small Grant for White Papers at the Intersection of Science, Technology, and Public Policy, Georgia Tech Strategic Plan Advisory Group, \$6500, 2021.
- Co-Principal Investigator (with Karen Palmer), "Understanding the role of variable pricing, consumer incentives, and smart technologies in shifting energy demand," The Alfred P. Sloan Foundation, \$450,000, 2019-2021.
- Co-Investigator, "The law & economics of private shale gas leasing," (PI: Alan Krupnick), The Alfred P. 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

### Refereeing

Journals: *American Economic Journal: Economic Policy*, *American Journal of Agricultural Economics*, *Applied Economics Perspectives & Policy*, *B.E. Journal of Economic Analysis and Policy*, *Ecological Economics*, *The Econometrics Journal*, *Economic Journal*, *Economics Letters*, *Energy Economics*, *The Energy Journal*, *Energy Policy*, *Environmental and Resource Economics*, *Epidemiology*, *European Economic Review*, *International Journal of Sustainable Transportation*, *Journal of the Association of Environmental and Resource Economists*, *Journal of Consumer Affairs*, *Journal of Economic Behavior & Organization*, *Journal of Economics & Management Strategy*, *Journal of Environmental Economics and Management*, *Journal of Human Resources*, *Journal of Policy Analysis and Management*, *Journal of Public Economics*, *Land Economics*, *Management Science*, *Nature Human Behaviour*, *Nature Water*, *PLOS One*, *Proceedings of the National Academy of Sciences*, *Resource and Energy Economics*, *Review of Behavioral Economics*, *Stat*, *Sustainable Cities and Society*, *Transportation Research Part C*, *Utilities Policy*, *Water*, *Water Resources and Economics*, *Water Resources Research*

Grant proposals: National Science Foundation (Economics), University of Wisconsin Water Resources Institute, University of Hawai'i Water Resources Research Center

### External service

- AERE Outstanding Doctoral Dissertation Award Committee (2021-)
- AERE Program Committee: 2016, 2017, 2019, 2020, 2021
- 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

### Internal service

- Faculty Hiring Committee, School of Economics, Georgia Tech (2021-2022, 2022-2023)
- Ph.D. Program Committee, School of Economics, Georgia Tech (2021-)
- Faculty Advisory Council, Strategic Energy Institute, Georgia Tech (2021-)
- Faculty Executive Committee, School of Economics, Georgia Tech (2020-)
- Diversity Committee, School of Economics, Georgia Tech (2020-)
- RFF Fellow Hiring Committee (2017-2018)
- RFF Academic Seminar Committee (2018-2019)

### Memberships

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

## Previous employment and affiliations

- 2016-2020, **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 of Sciences, *Assessing Approaches to Updating the Social Cost of Carbon*
- 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

## Contact

-  [\[google scholar\]](#)
-  [\[github.com/cjwichman\]](#)
-  [\[twitter.com/cjwich\]](#)