

J. Scott Holladay

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Education:

Ph.D. Economics, 2009	University of Colorado, Boulder
MA Economics, 2005	University of Colorado, Boulder
BS Computer Science, 2001	Furman University, Greenville, SC
BA Economics, 2001	Furman University, Greenville, SC

Professional Experience

Associate Professor, University of Tennessee, Department of Economics, 2018 - present
Fellow, Howard H. Baker School for Public Policy, 2011 - present
Visiting Professor, University of Colorado, Department of Economics, 2018-2019
Assistant Professor, University of Tennessee, Department of Economics, 2011 - 2018
Economics Fellow, New York University School of Law, 2009-2011

Fields of Specialization:

Environmental and Energy Economics, International Trade

Publications:

Holladay, J. Scott, and Justin R. Roush. "Pollution emissions and foreign-owned manufacturing plants." *Ecological Economics* 237:108687, November 2025.

Xu, Xiaojing, et al. "Looking high and low: Incentive policies and residential solar adoption in high-and low-income us communities." *Energies* 17.18:4538, September 2024.

Chu Y, Holladay JS, Qiu Y, Tian XL, Zhou M. Air Pollution and Mortality Impacts of Coal Mining: Evidence from Coalmine Accidents in China. *Journal of Environmental Economics & Management*. 121:102846. September 2023.

Ali, G.G., El-adaway, I.H., Sims, C., Holladay, J.S. and Chen, C.F., 2023. Reducing the Vulnerability of Electric Power Infrastructure against Natural Disasters by Promoting Distributed Generation. *Natural Hazards Review*, 24(2):04022052, May 2023.

Ali, Gasser G., et al. "Policies and incentives for promoting distributed solar generation: Impact on electric power infrastructure." *Journal of Infrastructure Systems* 28(4):04022034, December 2022.

Ali, Gasser G., et al. "Studying dynamic pricing in electrical power markets with distributed generation: Agent-based modeling and reinforcement-learning approach." *Journal of Energy Engineering* 148(5): 04022030, October 2022.

Holladay, J. Scott and Lawrence LaPlue. "Decomposing Changes in Establishment Level Emissions with Entry and Exit", with Lawrence LaPlue. *Canadian Journal of Economics*. 54(3): 1046-1071, August 2021.

Holladay, J. Scott, Mohammed Mohsin and Shreekar Pradhan. "Environmental Policy Instrument Choice and International Trade" *Environmental & Resource Economics*. 74(4): 1585–1617, December 2019.

Rastogi, Deeksha, James Scott Holladay, Katherine J. Evans, Ben L. Preston, and Moetasim Ashfaq. "Shift in seasonal climate patterns likely to impact residential energy consumption in the United States." *Environmental Research Letters*. 14(7), July 2019.

Kozak, David, J. Scott Holladay and Gregory E. Fasshauer. "Intraday Load Forecasts with Uncertainty." *Energies*. 12:1833, May 2019.

Holladay, J. Scott, Jacob LaRiviere, David Novgorodsky and Michael Price. "Asymmetries of Non-Pecuniary Signals on Search and Purchase Behavior." *Journal of Public Economics*. 172:151-173, April 2019.

Holladay, J. Scott and Jacob LaRiviere. "How Does Welfare from Load Shifting Electricity Policy Vary with Market Prices? Evidence from Bulk Storage and Electricity Generation" *Energy Journal*. 39(6): 235-272.

Vossler, Christian and J. Scott Holladay. "Alternative Value Elicitation Formats in Contingent Valuation: A New Hope." *Journal of Public Economics*. 165: 133-145, September 2018.

Holladay, J. Scott, Mohammed Mohsin and Shreekar Pradhan. "Emissions Leakage, Environmental Policy and Trade Frictions." *Journal of Environmental Economics and Management*. 88: 95-113, March 2018.

Chu, Yin, J. Scott Holladay and Jacob LaRiviere. "Pass-through from Fossil Fuel Market Prices to Procurement Costs of the U.S. Power Producers." *Journal of Industrial Economics*. 65(4): 842-871, December 2017.

Holladay, J. Scott and Jacob LaRiviere. "The impact of cheap natural gas on marginal emissions from electricity generation and implications for energy policy". *Journal of Environmental Economics and Management*, 85: 205-227, September 2017.

Holladay, J. Scott and Steven Soloway. "The Environmental Impacts of Fuel Switching Power Plants." *Energy Journal*, 37(4):187-2013, 2016.

Holladay, J. Scott. "Exporters and the Environment." *Canadian Journal of Economics*, 49(1): 147-172, February 2016.

Holladay, J. Scott, Michael Price and Marianne Wanamaker. "The Perverse Impacts of Calling for Energy Conservation." *Journal of Economic Behavior & Organization*, 110:1-18, February 2015.

Holladay, J. Scott and Michael A. Livermore. "Regional Variation, Holdouts, and Climate Treaty Negotiations." *Journal of Benefit-Cost Analysis*. 4(2):131-157, August 2013.

Billings, Stephen B. and J. Scott Holladay. "Should Cities Go for the Gold? The Long-Term Impacts of Hosting the Olympics." *Economic Inquiry*. 50(3):754-772, July 2012.

Contributions to Edited Volumes:

"Coal-Fired Power Plant Retirements in the US", (with Rebecca Davis and Charles Sims). In *Environmental and Energy Policy and the Economy, Volume 3* (2021) Tatyana Deryugina, Matthew Kotchen and James H. Stock (Eds.). National Bureau of Economic Research.

Completed Papers:

“Patronage and Pollution Abatement”, with Yin Chu and Xian-Liang Tian. *Second revision requested*
“The equity implications of pecuniary externalities on an electric grid”, with Charles Sims, Gasser Ali, Tim Robeson, Chien-fei Chen and Islam El-adaway. *Revision requested*
“Air Pollution and Students' High-stakes Exam Performance: Evidence from Mexico”, with Maria Padilla-Romo and Xin Jin. *Under Review*
“Transmission as Storage”, with Ben Meadows, Tim Roberson, and Charles Sims. *Under Review*

Work in Progress:

The Impact of Air Pollution on High Stakes Physical Activity, with Michael Brown.
Response to Market Uncertainty: Market Pros vs Average Joes, with Alecia Evans and Charles Sims.

Conference and Seminar Presentations

2025: AERE Summer Conference, Southern Economics Association (scheduled)
2024: AERE Summer Conference
2023: AERE Summer Conference, Southern Economics Association, Southeastern Workshop on Energy & Environmental Economics & Policy (SWEEEP)
2022: International Industrial Organization Conference, AERE Summer Conference, Southern Economics Association
2021: NBER Environmental and Energy Policy and the Economy Conference, AERE Summer Conference
2020: ASSA Climate Economics Panel Chair, AERE Summer Conference
2019: Colorado School of Mines, Colorado State University, University of Wyoming, AERE Summer Conference, Southeastern Energy and Environmental Economics Workshop
2018: University of Colorado, Washington State University
2017: AERE Summer Conference, Southern Economics Association
2016: University of Georgia, 4th Sporadic Experimental and Environmental Policy Workshop, AERE Summer Conference, New Directions in the Analysis of Environmental Justice (Duke University), Southern Economics Association
2015: ASSA Meetings, Federal Energy Regulatory Commission (FERC), West Virginia University, Southern Economics Association
2014: ASSA Meetings, University of Colorado Environmental and Resource Economics Workshop, Resources for the Future, Washington DC; Appalachian State University
2013: NBER Summer Institute EEE, Southern Economics Association Meeting, University of Colorado Environmental and Resource Economics Workshop
2012: University of North Carolina, Greensboro, American Environmental and Resource Economics Conference, University of Colorado Environmental and Resource Economics Workshop
2011: ASSA Meetings, Georgia Institute of Technology, University of Tennessee, Southern Economics Association Meeting, University of Colorado Environmental and Resource Economics Workshop
2010: Camp Resources, NBER Summer Institute EEE
2009: NBER Summer Institute ITI, UC Santa Barbara Occasional Meeting, CU Environmental and Resource Workshop, Empirical Investigations in International Trade
2008: Midwest International Economics Group, North American Meetings of the Regional Science Association International

Research Grants:

“Enhancing community fiscal resilience against coal-plant retirements” from Bezos Earth Foundation (\$100,000)
“Dynamic interplay between customer and utility incentives to invest in distributed generation” from National Science Foundation (\$108,000)

“The relationship between customer incentives to invest in distributed solar generation and utility incentives to invest in new resource and transmission assets” from Alfred P. Sloan Foundation. (\$237,415)

“Firm Location Decisions and Local Pollution Levels” from University of Tennessee’s Professional and Scholarly Development Awards (\$4,500).

“An Economic Analysis of Appalachian Coal Industry Ecosystems” with West Virginia University and the University of Tennessee from Appalachian Regional Commission (\$349,999).

“Assessing Incentives for Uptake and Distributional Consequences of the National Flood Insurance Program” with Richard Revesz, Okmyung Bin, John Bishop, Carolyn Kousky and Jason Schwartz from Alfred P. Sloan Foundation (\$150,500)

“The Effect of Peak-Shaving Regulations on the Activity, Toxic Emissions, and Health Impacts of Local Power Plants” with Michael Livermore, Jason Schwartz and Kevin Cromar from Robert Wood Johnson Foundation (\$150,000)

“Promoting Investments in Energy Efficient Technologies: A Natural Field Experiment on the Relative Import of Prices and Frames” with Jacob LaRiviere and Michael Price from Baker Center for Public Policy (\$20,000)

“Building a Comprehensive Electricity Market Database” with Jacob LaRiviere from Baker Center for Public Policy (\$11,200)

“Current Issues Workshops: *Intersections: Aligning Environmental and Transportation Policies to Mitigate Climate Change*” with Michael A. Livermore and Marta Panero from Environmental Protection Agency (\$80,000)

“Innovation, Productivity and Pollution,” Ewing Marion Kauffman Foundation for Entrepreneurship (\$10,000)

“Exporters and the Environment,” The McGuire Center for International Studies (\$2,000)

Refereeing:

Canadian Journal of Economics, Ecological Economics, Economic Inquiry, Economic Letters, Energy Economics, Energy Policy, Environmental and Resource Economics, European Economic Review, IISE Transactions, Israeli Science Foundation, Journal of the Association of Environmental and Resource Economists, Journal of Cost Benefit Analysis, Journal of Environmental Economics and Management, Journal of International Economics, Journal of Public Economics, Journal of Political Economy, Journal of Post Keynesian Economics, National Science Foundation, Review of Economics and Statistics

Invited discussant *Journal of Economic Behavior and Organization* Special Issue “Identification of Causal Effects in Environmental and Energy Economics”.

Invited discussant *Environmental & Resource Economics* Special Issue “Behavioral & Experimental Agri-environmental Research: Methodological Advancements & Applications to Policy”.

Program committee Association of Environmental and Resource Economists (AERE) Summer Meetings 2015-2024

Program committee

AERE Summer Scholars – Faculty Mentor 2022

Policy Papers:

“The Future of Electric Utilities”

“Measuring Flood Risk: What Are NYC Residents Willing to Pay for a Flood Protection System”, with Howard Kunreuther, Valerie Stahl

“Energy Intensity and Electricity Consumption in Tennessee”, with Rebecca Davis

“The Distributional Consequences of the National Flood Insurance Program,” with Jason Schwartz

“CLEAR and the Green Economy,” with Michael Livermore

“Free to Invest: The Economic Benefits of Preserving Net Neutrality,” with Inimai Chettiar

“Economists and Climate Change,” with Jason Schwartz and Jonathan Horne

“The Other Side of the Coin: The Economic Benefits of Climate Regulation,” with Jason Schwartz

“No More Excuses: The Economic Case for Coal Ash Regulation”

Honors & Awards

Bohm Faculty Award, 2025

Neilson Faculty Award, 2024

University of Tennessee Alumni Association Outstanding Teacher Award, 2023

Bohm Faculty Award, 2023

Haslam Family Faculty Research Follow – 2021, 2022

John and Wanda Wisecarver Faculty Research Fellow – 2019, 2020

Teaching Experience:

University of Tennessee, Knoxville:

Environmental Economics Spring 2020

Data Science for Economists Fall 2019, Spring 2022-2025

Honors Thesis Research Methods (*flipped class joint with Katie Cahill*) Fall 2017

Econometrics, Spring 2012, 2013, 2014, 2015, 2016, 2017; Fall 2013, 2014, 2015

International Economics, Fall 2013-2017, 2019, 2020-2025; Spring 2014, 2015, 2018, 2020-2025

Managerial Economics, Fall 2011, 2012; Spring 2013

Graduate Environmental Economics Fall 2016, 2020, 2022, 2024

Graduate Environmental Economics (*joint with Jacob LaRiviere*), Fall 2012, 2014

University of Colorado, Boulder:

Instructor, Introduction to Statistics, Spring 2006, 2007, 2008; Fall 2006

Instructor, Natural Resource Economics for Non-majors, Fall 2007

Instructor, Environmental Economics for Non-majors, Summer 2005, 2006, 2007, 2008; Fall 2005

Teaching Assistant, Introduction to Macroeconomics, Spring 2006

Graduate Advising:

Connor Neff (*chair*) (*In Progress, Economics*)

Trent Marble (*chair*) (*In Progress, Economics*)

Xin Jin (*In progress*)

Kyle Weiss (*Energy Science and Engineering, May 2024*)

Ivan Anich (*chair*) (*PhD Economics, May 2024*)

Ryan Swartzentruber (*PhD Economics, May 2024*)

Odysseus Bostick (*PhD Economics, Dec 2023*)

Ge We (*PhD Economics, May 2023*)

Vashuda Chopra (*PhD Economics, May 2022*)

Michael Brown (*PhD Economics, May 2022*)

Sangwon Lee (*chair*) (*PhD Economics, May 2020*)

Tingsi Wang (*co-chair*) (*PhD Economics, May 2020*)

Doyoung Park (*PhD Economics University of Colorado, May 2018*)

Bongkyun Kim (*PhD Economics, May 2017*)

Shreekar Pradhan (*co-chair*) (*PhD Economics, May 2016*)

Laurence LaPlue (*PhD Economics, May 2016*)

Yin Chu (*co-chair*) (*PhD Economics, August 2015*)

Qinran Hu (*PhD Electrical Engineering, August 2015*)

Jie Deng (*PhD Economics, August 2015*)

Justin Roush (*PhD Economics, May 2015*)

Shukhrat Musinov (*PhD Economics, May 2015*)

Undergraduate Thesis Supervision:

Ameera Bhatti (2022)
Zoe Carter (2021)
Alyx Thompson (2020)
Kendall Bard (2018)
Laura Beth Hirt (2017)
Kathleen Redpath (2016)

Sophie Henssler (2015)
Sam Rule (2015)
Robert Smith (2014)
Adam Watkins (2014)
Margaret Ross (2013)
Tyler Howard (2012)