

DYLAN T. BREWER

Georgia Institute of Technology
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EXPERIENCE

Assistant Professor, Georgia Institute of Technology, School of Economics, 2019-present.

EDUCATION

Ph.D., Economics, Michigan State University, dual major in Environmental Science and Policy. Thesis: “Institutions and Incentives for the Efficient Use of Energy,” 2019.

M.A., Economics, Michigan State University, 2016.

B.A., Economics, International Relations, and Mathematics (minor), University of Virginia, 2014.

FIELDS OF SPECIALIZATION

Energy and Environmental Economics, Applied Microeconomics, Industrial Organization, Public Economics, Urban Economics.

PEER-REVIEWED ARTICLES

Brewer, Dylan. (2020). “Do preferred thermostat settings differ by sex?” *Energy and Buildings*, vol. 224.

Brewer, Dylan. (2022). “Equilibrium Sorting and Moral Hazard in Residential Energy Markets.” *Journal of Urban Economics*, vol. 129.

Brewer, Dylan. (2023). “Changes in electricity use following COVID-19 stay-at-home behavior.” *Economics of Energy and Environmental Policy*, vol. 12 no. 1.

Brewer, Dylan, Dench, Daniel, and Taylor, Laura. (2023). “Advances in Causal Inference at the Intersection of Air Pollution and Health Outcomes Data.” *Annual Reviews of Resource Economics*, vol. 15.

Brewer, Dylan. (2023). “Household Responses to Winter Heating Costs: Implications for Energy Pricing Policies and Demand-Side Alternatives.” *Energy Policy*, vol. 177, 113550.

Brewer, Dylan and Alyssa Carlson (2024). “Addressing Sample Selection Bias for Machine Learning Methods.” *Journal of Applied Econometrics*, forthcoming.

Brewer, Dylan and Samantha Cameron (2024). “Habit formation and retention in recycling.” *Journal of Policy Analysis and Management*, forthcoming.

WORKING PAPERS

“Do people listen when it matters? Estimating household responses to government requests to conserve energy using smart thermostat data.” Joint with Jim Crozier. *Working paper, revisions requested at the Journal of the Association of Environmental and Resource Economists*.

“The pandemic, work from home, and new residential construction.” Joint with Graham Lewis. *Working paper, under review*.

“Benefits to agriculture from an afforestation program: Evidence from India” Joint with Vikrant Kamble and Matt Oliver. *Working paper, under review*.

“The effect of mass layoffs on related industries: Evidence from a mining ban in India.” Joint with Vikrant Kamble. *Working paper, under review*.

“The effect of extreme temperatures on evictions.” Joint with Sarah Goldgar. *Working paper, under review*.

WORKS IN PROGRESS

“Re-Lighting Detroit’s Streets: Impacts on Energy Use, Crime, and Property Values.” Joint with Soren Anderson, Prabhat Barnwal, Joseph Herriges, Anna Terkelsen, Alex Tybl, and Asa Watten.

“Estimating energy efficiency using smart thermostat data.” Joint with R. Jim Crozier.

OTHER PUBLICATIONS

“The Economic Costs of Forecasting Errors in the PJM Interconnection Due to the COVID-19 Quarantine.” *IAEE Energy Forum*, Covid-19 Special Issue 2020: 116-119.

GRANT-FUNDED WORK

Brook Byers Institute for Sustainable Systems Sustainability Next Seed Grant, “Assessing inequality in health benefits from EV adoption, charging, and air pollution” *Principle Investigator*. Co PIs: Jennifer Kaiser and Daniel Molzahn. 2024.

EPA Grant, “Monitoring Air Pollution in Underserved South Atlanta (MAP-USA).” *Principle investigator for Georgia Tech*. \$498,401. 2022-2025.

IAC Small Grant for Research SGR-B, 2022-2023.

Strategic Energy Institute Grant, “The Effects of Internal Combustion Engine Transit Systems on Health: An Interdisciplinary Research Program Linking Transit-Related Pollution to Birth Outcomes.” *Principle investigator*. Co PI: Randall Guensler. 2022-2023.

EVPR Seed Grant, “The Health Effects of Air Pollution: An Interdisciplinary Research Program.” *Collaborator*. PIs: Randall Guensler and Laura Taylor. 2021.

Serve-Learn-Sustain Toolkit Grant. *Principle investigator*. 2019-2020.

TEACHING EXPERIENCE

Georgia Institute of Technology:

Principles of Microeconomics, Fall 2020, Fall 2021, Spring 2022, Fall 2022.

Undergraduate Environmental Economics, Spring 2020, Spring 2021, Spring 2023.

Economics of Environmental Policy, Spring 2023.

Undergraduate Research, 2020-2022.

PhD Empirical Environmental Economics, Spring 2020, Spring 2021, Spring 2023.

Michigan State University:

Introduction to Macroeconomics, Summer 2016.

REFeree SERVICE

The Journal of Regional Analysis and Policy; Energy Journal (x6); Utilities Policy; AERE conference papers (x3); JAERE; JEEM (x3); Air Quality, Atmosphere & Health (x3), Energy Policy (x3), Journal of Policy Analysis and Management, Energy Economics.

PRESENTATIONS

2024: AERE at MEA (upcoming)

2023: AERE at MEA, Georgia Environmental Protection Division Air Quality Forecasting Workshop, AQ ATL Symposium, AERE at SEA, Brook Byers Institute for Sustainable Systems seminar series, APPAM, Georgia State University

2022: AERE at MEA, AERE Summer Conference, Ivan Allen College Lightning Talk Series: Environmental Sustainability, Georgia Tech, AERE at SEA, Michigan State University, Ohio University, University of Texas

2021: AERE at MEA, Public Choice Society Meetings, Strategic Energy Institute Energy & Public Health Workshop, AERE at SEA, Berry College, Virginia Tech

2020: Southern Economics Association, AERE Virtual Conference, AERE at MEA (cancelled, Covid-19), Public Choice Society Meetings (cancelled, Covid-19), College of Charleston

2019: Southeastern Energy & Environmental Economics Workshop, Georgia Tech; Sustainability Showcase, Georgia Tech; Wake Forest Department of Economics; Georgia Tech School of Economics; Davidson College Department of Economics; James Madison University Department of Economics; University of Georgia Applied and Agricultural Economics; Iowa State University Department of Economics; Midwest Energy Fest (Chicago).

2018: Midwest Energy Fest (Northwestern); Energy Camp at Haas (UC-Berkeley); IHS Graduate Research Colloquium (Chapman University); Camp Resources (NC State); CU Boulder Environmental Workshop; APPAM; SEA.

2017: MEA; PERC Workshop; Heartland Workshop (Illinois).

2016: MSU Agricultural Food and Resource Economics Graduate Student Colloquium; Environmental and Energy Economics Day at UM/MSU/WMU.

2015: IHS Graduate Research Colloquium.

UNIVERSITY SERVICE

Annual Review Committee alternate (elected), School of Economics, 2024.

Econometrics Faculty Search Committee Member, School of Economics, 2023-2024.

BBISS faculty fellows review committee, 2023.

Climate Action Plan Building Utilities Working Group, Georgia Tech, 2023.

Third Year Paper Reviewer, Georgia Tech School of Economics, 2023.

Faculty Advisory Council, Strategic Energy Institute, Georgia Tech, 2022-2024.

Energy Transition Economics Faculty Search Committee Member, School of Economics, 2022-2023.

Faculty Executive Committee (elected), School of Economics, 2022.

Shadow Day at Georgia Institute of Technology presentation, 2021.

BS in Data Science Planning Committee Member, Georgia Institute of Technology, 2019-2020.

Faculty Handbook Committee Member, School of Economics, 2019-2020.

Environmental Economics Faculty Search Committee Member, School of Economics, 2019-2020.

Co-organizer of the Southeastern Energy and Environmental Economics Workshop, 2019.

Undergraduate Programs Committee Member, School of Economics, 2019-present.

Nominated, Michigan State University “Outstanding Doctoral Student Mentor Award,” 2018.

Environmental Science and Public Policy Graduate Program Council Representative, 2017-2019.

Michigan State Economics Graduate Student Organization President, 2016-2017.

Michigan State University Graduate Economics First Year Mentorship Program Founder and Organizer, 2015-2017.

Red Cedar Conference Organizer, Michigan State University Department of Economics, 2015.

PHD STUDENT ADVISING

Min-Kyeong Cha, Vincent Xinyi Gu, R. Jim Crozier (chair), Emtiaz Hritan (chair), Archana Ghodeswar, Vikrant Kamble (co-chair), and Jancy Ling Liu (co-chair).

NONPROFIT EXPERIENCE

Trustee, Board of Trustees for The Nature Conservancy of Michigan, 2018-2020.

FELLOWSHIPS AND AWARDS

Energy Faculty Affiliate, EpiCenter, Georgia Tech, 2024.
Faculty Fellow, Brook Byers Institute for Sustainable Systems, Georgia Tech, 2022-2024.
Student Recognition of Excellence in Teaching: Class of 1934 CIOS Honor Roll, 2022.
Ivan Allen College of Liberal Arts 2021 Distinguished Tenure-Track Faculty Teaching Award.
9x Center for Teaching and Learning “Thank-A-Teacher” Notes 2020-2022.
Runner up for SLS Faculty Sustainable Communities Teaching Awards, 2021: People’s Choice.
Student Recognition of Excellence in Teaching: Class of 1934 CIOS Honor Roll, 2020.
Class of 1969 Teaching Fellowship, Georgia Institute of Technology, 2020-2021.
Dissertation Completion Fellowship, Michigan State University, 2019.
William S. Broadbent Family Award, Property and Environment Research Center, 2018.
Humane Studies Fellowship, Institute for Humane Studies, 2018.
Goodman Fellow, Michigan State University Department of Economics, 2018.
Dan Searle Fellow, Institute for Humane Studies, 2017.
Graduate Fellow, Property and Environment Research Center, 2017.
Holt Fellow, Michigan State University Department of Economics, 2017.
Leslie Rose Fellow, Institute for Humane Studies, 2017.
Thomas C. and Irene W. Graham Fellow, Institute for Humane Studies, 2016.
Environmental Science and Public Policy Fellow, Michigan State University 2014.
Thomas C. and Irene W. Graham Fellow, Institute for Humane Studies, 2014.