

CURRICULUM VITA

(September 2024)

Matthew E. Oliver, Ph.D.

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Georgia Institute of Technology
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GT Faculty profile: [Link](#)
ResearchGate profile: [Link](#)
IDEAS/RePEc profile: [Link](#)

CURRENT POSITION

Georgia Institute of Technology, School of Economics, Atlanta, GA
Associate Professor w/ tenure (2019-present)
Assistant Professor (2013-2019)

EDUCATION

University of Wyoming, Laramie, WY
PhD, Economics (2013)

University of Memphis, Memphis, TN
BBA, Business Economics; Minor, Spanish (2008)

RESEARCH INTERESTS

Primary field – Energy economics

Other fields – Environmental & natural resource economics; industrial organization & regulation; development economics; applied microeconomic theory; applied econometrics

PEER-REVIEWED PUBLICATIONS

NOTE: Underlined name indicates coauthor was a graduate student advisee.

- [17] Oliver, M.E., Moreno-Cruz, J., & Gillingham, K., (2024). Microeconomics of the Solar Rebound under Net Metering. Conditionally accepted at **Journal of the Association of Environmental & Resource Economists**, Sept. 2024. [Earlier version: *USAEE Working Paper No. 23-588* [Link](#)]
- [16] Oliver, M.E. (2023). Tipping the scale: Why utility-scale solar avoids a solar rebound and what it means for U.S. solar policy. **The Electricity Journal** 36(4): 107266. [Link](#)
- [15] Beppler, R.C., Matisoff, D., & Oliver, M.E. (2023). Electricity Consumption Changes Following Solar Adoption: Testing for a Solar Rebound. **Economic Inquiry** 61(1): 58-81. [Link](#)
- [14] Ghodeswar, A., & Oliver, M.E. (2022) Trading One Waste for Another? Unintended Consequences of Fly Ash Reuse in the Indian Electric Power Sector. **Energy Policy** 165: 112940. [Link](#)

- [13] Oliver, M.E., & Upton, G.B. (2022). Are energy endowed countries responsible for conditional convergence? **The Energy Journal** 43(3): 201-224. [Link](#) • [Earlier version: *USAEE Working Paper No. 19-414* [Link](#)]
- [12] Kennedy, C.J., McDermott, S., & Oliver, M.E. (2020). Setting carbon taxes using declining discount rates: Implications for investment-based mitigation. **Strategic Behavior & the Environment** 8(3): 311-344. [Link](#)
- [11] Johnson, E.P., & Oliver, M.E. (2019). Renewable generation capacity and wholesale electricity price variance. **The Energy Journal** 40(5): 143-168. [Link](#)
- [10] Toroghi, S.H., & Oliver, M.E. (2019). Framework for estimation of the direct rebound effect for residential photovoltaic systems. **Applied Energy** 251: 113391. [Link](#)
- [9] Oliver, M.E. (2019). Pricing flexibility under rate-of-return regulation: Effects on network infrastructure investment. **Economic Modelling** 78: 150-161. [Link](#) • [Earlier version: Price regulation and pipeline transmission capacity. *USAEE Working Paper No. 17-295*. [Link](#)]
- [8] Oliver, M.E., & Mason, C.F. (2018). Natural gas pipeline regulation in the United States: Past, present, and future. **Foundations & Trends® in Microeconomics** 11(4): 227-288. [Link](#)
- [7] Cifei, E., & Oliver, M.E. (2018). Reassessing the links between economic growth, GHG emissions, and the UNFCCC: A difference-in-differences approach. **Sustainability** 10(2): 334. [Link](#)
- [6] Kim, B.C., & Oliver, M.E. (2017) Taming drillers through legislative action: Evidence from Pennsylvania's shale gas industry. **Resource & Energy Economics** 50: 15-35. [Link](#)
- [5] Oliver, M.E. (2015). Economies of scale and scope in expansion of the U.S. natural gas pipeline network. **Energy Economics** 52 (Part B): 265-276. [Link](#)
- [4] Oliver, M.E., & Shogren, J.F. (2015). Common agency, contests, and corruption: Why the green candidate seldom wins. **Strategic Behavior & the Environment** 5(2): 87-109. [Link](#)
- [3] Oliver, M.E., Mason, C.F., & Finnoff, D. (2014). Pipeline congestion and basis differentials. **Journal of Regulatory Economics** 46(3): 261-291. [Link](#)
- [2] Oliver, M.E. (2014). Linking zebra mussel invasion and interstate waterborne commerce in the U.S.A. **Water Policy** 16(3): 536-556. [Link](#)
- [1] Strong, A., & Oliver, M.E. (2014). General equilibrium ecosystem modeling with alternative preference specifications. **Natural Resource Modeling** 27(2): 197-215. [Link](#)

BOOK CHAPTERS & NON-REFEREED PUBLICATIONS

- [5] Oliver, M.E. (2021). Pipelines. Vol. 3, pp. 463-470 in **International Encyclopedia of Transportation**, edited by R. Vickerman. Elsevier Ltd. [Link](#)
- [4] Oliver, M.E., & Mason, C.F. (2017). An overview of interstate gas pipeline regulation in the United States. Ch. 4, pp. 91-117, in **Progress in Economics Research, Vol. 39** (4th Quarter 2017), edited by A. Tavidze. NOVA Science Publishers, Inc. [Link](#)
- [3] Johnson, E.P., & Oliver, M.E. (2016). Renewable energy and wholesale electricity price variability. **IAEE Energy Forum** (1st Quarter 2016): 25-26. [Link](#)

- [2] Oliver, M.E., Pike, J., Huang, S., & Shogren, J.F., (2014). Climate policy coordination through institutional design: An experimental examination. Ch. 8, pp. 108-127, in **Toward a New Climate Agreement: Conflict, Resolution, and Governance**, edited by T. L. Cherry, J. Hovi, and D. McEvoy. Routledge Books, London.
- [1] Oliver, M.E., Mason, C.F., & Finnoff, D. (2014). Natural gas expansion and the cost of congestion. **IAEE Energy Forum** (1st Quarter 2014): 31-32. [Link](#)

WORKING & UNPUBLISHED PAPERS

- Oliver, M.E. (2024). The Economics of Integrating Distributed Energy Resources into the Electricity System. (Book chapter. Revisions submitted Sept. 2024.)
- Kamble, V., Brewer D., & Oliver, M.E. (2024). Is there a trade-off between afforestation and agriculture? Evidence from India. [Link](#) (Revisions requested at **Land Economics**, July 2024.)
- Godwin, V., & Oliver, M.E. (2024). Wind intermittency and supply-demand imbalance: Evidence from U.S. regional power markets. *USAE Working Paper No. 24-517* [Link](#) (Under review. Submitted Apr. 2024.)
- Brewer, D., & Oliver, M.E. (2024). Presidents, Prices at the Pump, and the Difference in Perceptions between Energy Market Experts and Non-experts. [Link](#) (Under review. Submitted Aug. 2024.)
- Ghodeswar, A., Nair-Reichert, U. & Oliver, M.E. (2024). Patching the leaking bucket: Financial factors and the performance of India's electricity distribution utilities.
- Oliver, M.E., Moreno-Cruz, J., & Beppler, R.C. (2019). Microeconomics of the rebound effect for residential solar photovoltaic systems. *CESifo Working Paper No. 7635* [Link](#) • *USAE Working Paper No. 19-403* [Link](#).

WORKS IN PROGRESS

- Managing the Transition to Intermittent Renewable Electric Power: A Survey of the Engineering, Economics, and Policy (with S. Grijalva, D. Matisoff, O. Chapman, M. Ramadhani, & A. West)
- The Flatter the Better? Retail Electricity Pricing with Residential Solar and Battery Storage. (with J. Burkett)

SEMINARS, WORKSHOPS, & CONFERENCE PRESENTATIONS

Invited Seminars

- University of Oklahoma, Department of Economics (invited, Nov. 2024)
- Georgia Institute of Technology, School of Economics, Oct. 3, 2023, Atlanta, GA.
- College of Charleston, Department of Economics, Apr. 13, 2018, Charleston, SC.
- University of Georgia, Department of Agricultural & Applied Economics, Nov. 10, 2017, Athens, GA.
- Appalachian State University, Department of Economics, Apr. 8, 2016, Boone, NC.
- Georgia Institute of Technology, School of Economics, Feb. 19, 2016, Atlanta, GA.
- Auburn University, Department of Economics, Mar. 6, 2014, Auburn, AL.
- University of Memphis, Economics Department, Nov. 7, 2014, Memphis, TN.
- Georgia Institute of Technology, School of Economics, Feb. 11, 2014, Atlanta, GA.
- Georgia Institute of Technology, School of Economics, Feb. 7, 2013, Atlanta, GA.
- University of Wyoming Dept. of Economics and Finance, Feb. 3, 2013, Laramie, WY.

Conferences, Workshops, & Other Invited Presentations

2024 AERE Summer Conference, May 29-31, 2024, Washington, DC.
2024 Allied Social Science Associations (ASSA) Annual Meeting (IAEE session), Jan. 5-7, 2024, San Antonio, TX.
93rd Annual Meeting of the Southern Economic Assn., Nov. 18-20, 2023, New Orleans, LA. [3 papers presented: 2 in AERE sponsored sessions, 1 in general session.]
Southeastern Workshop on Energy & Environmental Economics & Policy, Oct. 19-20, 2023, Atlanta, GA.
50th Anniversary Celebration (Academic Faculty Panel) – Dept. of Economics PhD Program, University of Wyoming, Sept. 16, 2023, Laramie, WY.
Georgia Tech Faculty Field Day @ Sandia National Laboratories, Mar. 13-14, 2023, Albuquerque, NM.
90th Annual Meetings of the Southern Economic Assn., Nov. 2020 (virtual)
89th Annual Meetings of the Southern Economic Assn., Nov. 23-25, 2019, Ft. Lauderdale, FL.
Southeastern Energy & Environmental Economics Workshop, Oct. 23-34, 2019, Atlanta, GA.
2019 AERE Summer Conference, May 29-30, 2019, Lake Tahoe, NV.
88th Annual Meetings of the Southern Economic Assn., Nov. 18-20, 2018, Washington, DC.
36th USAEE/IAEE North American Conference, Sept. 23-26, 2018, Washington, DC.
87th Annual Meetings of the Southern Economic Assn. (AERE Session), Nov. 17-19, 2017, Tampa, FL.
40th IAEE International Conference, June 18-21, 2017, Singapore.
85th Annual Meetings of the Southern Economic Assn., Nov. 21-23, 2015, New Orleans, LA.
17th Annual CU Environmental and Resource Economics Workshop, Sep. 4-5, 2015, Vail, CO.
84th Annual Meetings of the Southern Economic Assn., Nov. 22-24, 2014, Atlanta, GA. [2 papers presented: 1 in AERE sponsored session, 1 in general session.]
37th IAEE International Conference, Jun. 15-18, 2014, New York, NY.
2012 AERE Summer Conference, Jun. 4-5, 2012, Asheville, NC.
Occasional California Workshop in Environmental and Resource Economics, Feb. 24-25, 2012, Santa Barbara, CA.
13th Annual CU Environmental and Resource Economics Workshop, Oct. 7-8, 2011, Vail, CO.

COURSES TAUGHT

Undergraduate

Principles of Macroeconomics
Principles of Microeconomics
Advanced Microeconomic Analysis (Intermediate Microeconomics)
International Energy Markets (Energy Economics)
Environmental & Natural Resource Economics
Mathematical Modeling for Economics (Math Econ)

Graduate

Environmental & Natural Resource Economics (PhD, MS)
Macroeconomics (MS)
Microeconomic Theory I (PhD)

STUDENT ADVISING

Ph.D. Committee Chair/Co-chair (w/ year graduated; initial placement)

Sedat Ors, GT School of Economics (expected 2026)
Vikrant Kamble, GT School of Economics (2023; Arizona State Univ., post-doc)
Archana Ghodeswar, GT School of Economics (2022; Oak Ridge National Laboratory)
Evgeniya Tsybina, GT School of Economics (2021; Oak Ridge National Laboratory)

*Ph.D. Committee Member (*indicates serving as Ph.D. minor advisor)*

Cindy Azuero Pedraza, GT School of Industrial Systems Engineering* (2023)
Anthony Harding, GT School of Economics (2020)
Jingwen Qu, GT School of Economics (2020)
Mishal Ahmed, GT School of Economics (2019)
Ross Beppler, GT School of Public Policy* (2019)
Chris Blackburn, GT School of Economics (2019)
Shahaboddin “Sean” H. Toroghi, GT School of Building Construction* (2019)
Zhe “Carrie” Zhai, GT School of Economics (2017)

M.S. & Undergraduate Supervised Research

2024 – Lindsey Alexander, Anushka Mukhopadhyay, Dawson Lane, Aidan McAlister, Kendy Lopez
2023 – Adam Taylor
2022 – Emily O’Day
2021 – Denis Schwirtz
2020 – Djimon Brooks, Dwayne Copper
2019 – Austin McTier, Kirti Prabhakar, Jared Southers, Derek Tai
2018 – Brandon Alston, Eren Cifci, Shannon Murray, Dylan Patel, Kirti Prabhakar, Stacy Scopano, Arezoo Shirazi
2017 – Anisha Bhakri, Eren Cifci, Joseph Werble
2016 – Richard Green, Rui Huang, Li Lu, Zehuan Yu, Haiyue Zhang
2015 – Jason Beasley, Jonathan Law

Senior Thesis

2018 – Alex Remillard
2017 – Aeshah Abdeljawad, John Nicholson, Johanna Ortiz, Sana Surani
2016 – Isai Castrejon, Eric DiCorrado

AWARDS & HONORS

EPICenter Faculty Affiliate Program, Georgia Tech (2024-2025)
Student Recognition of Excellence in Teaching: CIOS Honor Roll, Georgia Tech (Fall 2023)
Student Recognition of Excellence in Teaching: CIOS Honor Roll, Georgia Tech (Fall 2022)
Student Recognition of Excellence in Teaching: CIOS Honor Roll, Georgia Tech (Fall 2021)
Office of the Provost’s Emerging Leaders Program, Georgia Tech (2020-2021)
Georgia Power Professor of Excellence, Georgia Tech (2019)
Ivan Allen College Distinguished Teaching Award, Georgia Tech (2018)
Center for Teaching & Learning (CTL) Class of 1969 Teaching Fellow, Georgia Tech (2017-2018)
Center for Serve-Learn-Sustain (SLS) Energy Systems for Sustainable Communities (ESSC) Fellow, Georgia Tech (2017)
Nominee: ORAU Ralph E. Powe Junior Faculty Enhancement Award, Georgia Tech (2015)
John P. Ellbogen Outstanding Graduate Assistant Teaching Award, Univ. of Wyoming (2012)
Anadarko Fellowship for Excellence in Energy Scholarship, Univ. of Wyoming (2011)
William E. Morgan Graduate Award, Univ. of Wyoming (2010)

GRANTS AWARDED

IAC Small Grants for Research (\$4,500) – Georgia Tech, Ivan Allen College (2022)
IAC Small Grants for Research [Co-PI w/ Justin Burkett] (\$4,500) – Georgia Tech, Ivan Allen College (2019)
IAC International Travel Grant (\$3,000) – Georgia Tech, Ivan Allen College (2017)

MEDIA

Featured Research

- Does cutting greenhouse gas emissions hurt economic growth? By Michael Porter, *Futurity* (3/12/2018): [Link to article](#)
- Rooftop Solar Increases Electricity Use, Raising Questions for Utilities and Policymakers, Georgia Tech Study Finds. By Michael Porter, *research.gatech.edu* (lead article, 10/5/2021): [Link to article](#)
- Residential solar power saves less energy than expected. By Tess Malone, *Tech Xplore* (11/20/2023): [Link to article](#)
- Best of Last Year: The top Tech Xplore articles of 2023. By Bob Yirka, *Tech Xplore* (12/14/2023): [Link to article](#)

Expert Commentary

- Solar power got cheap. So why aren't we using it more? By Ula Chrobak, *Popular Science* (10/8/2021): [Link to article](#)
- 2022's Most & Least Energy-Expensive States. By Adam McCann, *WalletHub* (7/6/2022): [Link to article](#)
- 'Insane' & 'ridiculous' Georgia Power bills hit Columbus. What's causing rate spikes? By Kala Hunter, *Ledger-Enquirer* (Columbus, GA, 8/4/2024). [Link to article](#)

PROFESSIONAL SERVICE

GT School of Economics

Undergraduate Curriculum Committee (2014-present)

- Director of Undergraduate Programs (2019-2024)
- Interim Undergraduate Advisor (Spring 2020)

Promotion & Tenure Committee (2019-present)

Policy Committee (2013-present)

Lecturer Hiring Committee (2024)

Faculty Executive Committee (2021-2022)

Tenure-Track Faculty Hiring Committee (Chair) (2022-2023)

Acad. Prof. Promotion Review Committee (Chair) (2021)

Academic Professional Hiring Committee (Chair) (2019-2020)

Tenure-Track Faculty Hiring Committee (Chair) (2019-2020)

Tenure-Track Faculty Hiring Committee (Chair) (2018-2019)

School Chair Search Committee (2017)

Ivan Allen College of Liberal Arts

Shadow Day Faculty Volunteer (2016-2024)

Staff Hiring Committee, Career Educator #2 (2021)

Faculty Mentor, IAC Freshman Research Internship Program (AY 2018-19)

Faculty Volunteer, Stamps President's Scholars Program, Prospective Scholars Campus Visitation (2017)

Reviewer, Small Research Grants (IAC-SGR) (2016)

Faculty Judge – 4th Annual Ivan Allen College of Liberal Arts (IAC) Georgia Tech Research and Innovation Conference (GTRIC) Graduate Student Paper Competition (2016)

Faculty Judge – 2nd Annual Ivan Allen College of Liberal Arts (IAC) Georgia Tech Research and Innovation Conference (GTRIC) Graduate Student Paper Competition (2014)

Georgia Tech

UK Awards Campus Review Committee (2021)
Faculty Advisory Committee, GT Strategic Energy Institute (2018-2021)
Guest Speaker, AKPsi Student Business Fraternity (2018)
Host Institution Faculty Participant, Stamps Scholars National Convention (2017)
Faculty Guest Coach, GT Athletics (2016)

Service to the Profession

Co-organizer, Southeastern Workshop on Energy & Environmental Economics & Policy (SWEEEP) (2023)
Session Chair – 93rd Annual Meeting of the Southern Economic Assn. (Nov. 2023, New Orleans, LA)
Session Chair – 93rd Annual Meeting of the Southern Economic Assn., AERE session (Nov. 2023, New Orleans, LA)
External Reviewer – U.S. Dept. of Energy, Office of Clean Energy Demonstrations [multiple concept papers for DE-FOA-0002970] (2023)
External Reviewer – Promotion & Tenure [university information redacted for confidentiality] (2022)
Session Chair & Organizer – 90th Annual Meetings of the Southern Economic Assn. (Nov. 2020, virtual)
Co-organizer, Southeastern Energy & Environmental Economics Workshop (SEEEW) (2019)
Discussant – 88th Annual Meetings of the Southern Economic Assn. (Nov. 2018, Washington, DC)
Discussant – 87th Annual Meetings of the Southern Economic Assn. (Nov. 2017, Tampa, FL)
Discussant – 85th Annual Meetings of the Southern Economic Assn. (Nov. 2015, New Orleans, LA)
Session Chair, Discussant – 84th Annual Meetings of the Southern Economic Assn. (Nov. 2014, Atlanta, GA)

Public Engagement

Expert Panelist, The State of Solar in Georgia: A Policy & Economic Forum [Georgia Solar Energy Industries Association & Conservatives for Clean Energy, Georgia] (July 12, 2023)
Breakout Session Co-Lead, Track + Scale: Georgia Climate Solutions Workshop [Drawdown Georgia] (May 13, 2024)

REFEREE

Applied Economics Letters (2) • *Applied Energy* • *Contemporary Economic Policy* • *Ecological Economics* (4) • *Ecology and Society* • *Economic Modelling* (4) • *Economics of Energy & Environmental Policy* (2) • *Energies* • *Energy* • *Energy Economics* (6) • *The Energy Journal* (8) • *Energy Policy* (3) • *Energy Reports* (2) • *Environmental & Resource Economics* (2) • *Int'l. Journal of Electric Power & Energy Systems* • *Journal of the Association of Environmental & Resource Economists* • *Journal of Environmental Economics & Management* (4) • *Journal of Management Science & Engineering* • *Journal of Natural Resources Policy Research* • *Land Economics* • *The Manchester School* • *Natural Resources Forum* • *Nature Energy* • *Resource & Energy Economics* (5) • *Resources, Conservation & Recycling* • *Resources Policy* • Routledge [book proposal] (2) • *Southern Economic Journal* • *Sustainability* (9) • *Utilities Policy* (2) • *Water Economics & Policy*

PROFESSIONAL AFFILIATIONS & MEMBERSHIPS

Georgia Tech – Strategic Energy Institute • Center for Serve-Learn-Sustain • Center for Teaching & Learning

American Economic Association (AEA) • Association of Environmental and Resource Economists (AERE) • U.S. Association for Energy Economics (USAEE) • International Association for Energy Economics (IAEE) • Southern Economic Association (SEA)

LANGUAGES

English (native)
Spanish (proficient)

SOFTWARE

STATA (proficient)
Mathematica (proficient)
GAMS (moderate)
ArcGIS (limited)

PROFESSIONAL REFERENCES

CHARLES F. MASON
H.A. "Dave" True Prof. of Oil & Gas Economics
Dept. of Economics, Univ. of Wyoming
Email: bambuzlr@uwyo.edu
Phone: 307-766-5336

JUAN MORENO-CRUZ
Associate Professor, School of Environment, Enterprise, & Development
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JASON F. SHOGREN
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LAURA O. TAYLOR
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