

Adam B. Gallaher

Ph.D. Candidate

Dept. of Geography, University of Connecticut

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RESEARCH INTERESTS

Energy Transitions, Geographic Information Science, Spatial Temporal Analysis, Electric Grid Resilience and Reliability, Human-Environment Interactions, Electric Vehicle Adoption

EDUCATION

Ph.D. – University of Connecticut, Geography (Expected Spring 2023) 2019 – present

- Advisor: Chuanrong (Cindy) Zhang, Ph.D.
 - NSF NRT Fellow: Building Resilient Landscapes for Food, Energy, Water, and Ecosystem Services in America's Original Megalopolis

M.S. – Central Michigan University, Geography and Environmental Studies 2017 – 2019

- Thesis: "Spatial Statistical Analysis of Grid Optimization in Connecticut, Quantifying the Relationship Between Tree Trimming and Power Outages"
Advisor: Marcello Graziano, Ph.D.

B.S. – Central Michigan University, Geography and Environmental Studies 2012 – 2017

GPA 3.48

- Major, Environmental Studies
- Minors, GIS, Environmental Policy and Sustainability

Iceland: Renewable Energy, Technology, and Resource Economics Summer 2016

RESEARCH EXPERIENCE

Connecticut Transportation Safety Research Center

- *Graduate Research Assistant* 2019 – 2021
 - Developed ArcGIS online web app for CTDOT
 - Integrated GIS data from CTDOT to ArcGIS online
 - Developed Operations Dashboard for ADA curb ramp compliance
 - Assets include: ADA curb ramps, guiderails, and traffic signals

UConn Geography

- *Graduate Research Assistant* 2020 – present
 - Developed public facing covid-19 dashboard for Connecticut
 - Compiled daily cases, deaths, and hospitalizations
 - Performed space-time analysis of covid-19 in Connecticut
 - [Link to covid-19 dashboard](#)

Central Michigan University

- *Graduate Research Assistant* 2018 – 2019
 - Collected, aggregated, and analyzed utility data
 - Collected and aggregated meteorological and LCLU data
 - Mapped relationship between power outages and tree trimming
- *Graduate Research Assistant, Great lakes Institute for Sustainable Systems* 2017 – 2019
 - Compiled sustainability efforts of various departments at CMU
 - Revised and updated previous *Sustainability is Central* report
 - Attended Clinton Global Initiative – University, 2018

TEACHING EXPERIENCE

- *Instructor on Record, University of Connecticut* Fall 2022
 - Introduction to Geography (GEOG 1000)
- *Graduate Teaching Assistant in the Department of Geography* 2017 – 2018
 - Introduction to GIS, GIS II, Physical Geography, Latin America

PEER-REVIEWED PUBLICATIONS

Gallaher, Adam, Marcello Graziano, Stephen Axon, Amanda Bertana. (2022) Breaking wind: A comparison between U.S. and European approaches in offshore energy leadership in the North Atlantic region. *Renewable & Sustainable Energy Reviews* (under review)

Gallaher, Adam, Marcello Graziano, Maurizio Fiaschetti. (2021) Legacy and Shockwaves: A spatial analysis of strengthening resilience of the power grid in Connecticut. *Energy Policy*, 159: 112582. DOI: <https://doi.org/10.1016/j.enpol.2021.112582>

Chen, Xiang, Aiyin Zhang, Hui Wang, **Adam Gallaher,** and Xiaolin Zhu. (2021) Compliance and containment in social distancing: mathematical modeling of COVID-19 across townships. *International Journal of Geographical Information Sciences*, 35:3, 446-465. DOI: <https://doi.org/10.1080/13658816.2021.1873999>

Graziano, Marcello, Peter Gunther, **Adam Gallaher,** Fred V. Carstensen, and Brian Becker. (2020) The wider regional benefits of power grids improved resilience through tree-trimming operations evidences from Connecticut, USA. *Energy Policy*, 138: 111293. DOI: <https://doi.org/10.1016/j.enpol.2020.111293>

BOOK CHAPTERS AND REPORTS

Adams, Aaron, Debarchana Ghosh, Xiang Chen, Weidong Li, Chuanrong Zhang, **Adam Gallaher,** Ashley Benitez Ou. "Using Geospatial Visualizations to Better Understand Public Health Data" in *Spatial Literacy in Public Health*. Chicago, IL: ACRL, forthcoming 2023.

Gallaher, Adam. "Energy Security Act of 1980" in *Energy in American History: A Political, Social, and Environmental Encyclopedia*. London, UK: Bloomsbury, forthcoming 2023.

Rohrer, T; **Gallaher, A;** Van Meter A (2018). Sustainability is Central Volume IV: 2018

POPULAR WRITING

Gallaher, Adam. “Heat pumps could help state energy challenges” *Hartford Courant*, December 13, 2022. <https://www.courant.com/opinion/op-ed/hc-op-heat-pumps-help-during-energy-rate-spikes-20221213-cck7mixqqzb7nhg5ovh5u6iwma-story.html>

Gallaher, Adam. “Commentary: Clean energy can help solve New England’s natural gas woes” *Energy News Network*, February 11, 2022. <https://energynews.us/2022/02/11/commentary-clean-energy-can-help-solve-new-englands-natural-gas-woes/>

Gallaher, Adam. “Are Connecticut consumers ready for electric vehicles?” *Hartford Courant*, January 18, 2022. <https://www.courant.com/opinion/op-ed/hc-op-electric-vehicle-industry-01152022-20220118-ci42u6hklnephnmux6tuvvbmqa-story.html>

PRESENTATIONS AND PANELS

American Association of Geographers

Denver, CO

- **Gallaher, Adam;** Carol Atkinson-Palombo, Lyle Scruggs, Marcello Graziano. Walking the walk: An analysis of the drivers, barriers, and directions of the Connecticut EV market, 2013-2020. 2023

NESTVAL

Salem, MA

- **Gallaher, Adam;** Marcello Graziano, Stephen Axon, Amanda Bertana. Breaking Wind: A comparison between the U.S. and European offshore wind development. 2022

C2E2 Clean Energy Symposium

Storrs, CT

- **Gallaher, Adam;** Sarah Klionsky, Yan Chen, Chuanrong Zhang, Mark Urban. Sustainable Solar Siting in Connecticut: Ecological, Energy, and Economic Trade-offs. 2022 (Poster)

Loyola Climate Change Conference

Virtual

- **Gallaher, Adam;** Sarah Klionsky; Yan Chen. Sustainable Solar Siting in Connecticut: Ecological, Energy, and Economic Trade-offs. 2022 (Poster)

American Association of Geographers

Virtual

- **Gallaher, Adam.** Energy Landscapes: Making use of marginal lands in Connecticut for sustainable energy transitions. 2022

Eversource Energy Center Annual Meeting

Storrs, CT

- **Gallaher, Adam.** Legacy and shockwaves: A spatial analysis of strengthening resilience of the power grid in Connecticut. 2021

NESTVAL

Virtual

- **Gallaher, Adam.** Legacy and shockwaves: A spatial analysis of strengthening resilience of the power grid in Connecticut. 2021

University Consortium for GIS

Virtual

- **Gallaher, Adam.** Estimating Second-Generation Biofuel Feedstock Production on Marginal Lands in Connecticut. 2021

American Association of Geographers

Virtual

- **Gallaher, Adam;** Marcello Graziano, and Marta Musso. Energy Transitions Across Four OECD Countries. 2021

CT GIS Day

Virtual

- **Gallaher, Adam;** Aaron Adams; Ashley Benitez Ou; Debs Ghosh. Town Level Interactive Dashboard to Track COVID-19 in Connecticut. 2020

NESTVAL

Framingham, MA

- **Gallaher, Adam.** Spatial Statistical Analysis of Grid Optimization in Connecticut - Quantifying the Relationship Between Tree Trimming and Power Outages. 2019

Energy Research and Social Science

Tempe, AZ

- **Gallaher, Adam.** Spatial Statistical Analysis of Grid Optimization in Connecticut - Quantifying the Relationship Between Tree Trimming and Power Outages. 2019

Student Research and Creative Endeavors Exhibition

Mount Pleasant, MI

- **Gallaher, Adam;** Amber Van meter; Thomas Rohrer. Sustainability is Central. 2019

American Association of Geographers

Washington, D.C.

- **Gallaher, Adam.** Spatial Statistical Analysis of Grid Optimization in Connecticut - Quantifying the Relationship Between Tree Trimming and Power Outages. 2019

INVITED PRESENTATIONS

American Association of Geographers

Virtual

- **Invited Panelist.** Connecticut Redistricting with Geographers: Mapping for Equity and Inclusion. 2021

Geospatial Fellows Webinar Series

Virtual

- Xiang, Chen; **Gallaher, Adam** Modeling COVID-19 Infections across Township with Social Distancing Metrics. 2021

Central Michigan University

Virtual

- **Invited Panelist.** Earth Week Alumni Panel. 2021

PROFESSIONAL SERVICE

AAG Energy and Environment Specialty Group (EESG) Outreach Coordinator and Graduate Student Representative

Team-TERRA Social Media and Communication Co-Chair

TECHNICAL SKILLS

Geomatics: Panel Analysis, Spatial Statics, Spatial econometrics

Software: ArcGIS Pro, ArcMAP, AGOL/Portal, GEODA, Google Earth, Mapbox

Computing: STATA, R, Python

AWARDS

UConn Institute of the Environment MERGAS Award (\$8,000), 2022
EnGRG Outstanding Research Design and Methods Award (Highly Commended), 2022
Provost's Award for Excellence in Community Engaged Scholarship, 2022
AAG Energy & Environment Specialty Group Dissertation Data & Fieldwork Award (\$250), 2022
UConn Graduate School Conference Participation Award (\$1,000), 2021
UCGIS Student Paper Award (2nd place) (\$100), 2021
Graduate Outstanding Community Engagement Award (\$100), 2021
CT GIS Day People's Choice Award (2nd place), 2020
Graduate Student Outstanding Service Award, 2020
Department of Geography Graduate Assistantship (UConn), 2019 – present
ERSS Conference Support Grant (\$300), 2019
Department of Geography Graduate Assistantship (CMU), 2017- 2019
College of Science & Engineering Travel Scholarship (\$500), Summer 2016
CMU President's Award, 2012

MEDIA

UConn Today "Graduate Students Awarded Multidisciplinary Environmental Research Funding" March 1st, 2023. [Found here](#)
UConn Today "Community engagement awards recognize faculty, staff, and students" May 25th, 2022. [Found here](#)
NBC Connecticut "Routine Tree Trimming Does Help Reduce Power Outages, Study Finds" December 20th, 2021. [Found here](#)
UConn Today "Study: Tree Trimming Pays Dividends for Eversource Customers" December 16th, 2021. [Found here](#)
UConn Today "UConn Researcher Develops Town-Level Model for COVID-19 in Connecticut" January 26th, 2021. [Found here](#)
NBC Connecticut "New Haven App Adds New Way to Submit COVID-19 Concerns" April 6th, 2020. [Found here](#)
CMU News "Greener CMU on world stage" November 15th, 2018. [Found here](#)

COMMITTEES AND PROFESSIONAL MEMBERSHIPS

AAG	2021 – present
AAAS	2017 – 2020
Take Back the Tap	2016 – 2017
<ul style="list-style-type: none">• <i>Executive Board Social Media Chair</i>• <i>Recruitment committee member</i>	
Student Environmental Alliance	2016 – 2017
<ul style="list-style-type: none">• <i>Executive Board Social Media Chair</i>• <i>Recruitment committee member</i>	