ETHAN HARTLEY

ehartley@hawaii.edu
https://ethanhartley22.github.io//

Education

University of Hawai'i at Mānoa, Ph.D. Economics *2021 - 2027 (Expected)*
University of Hawai'i at Mānoa, M.A. Economics *2023*
Utah State University, B.S. Economics and Finance *2021*

Fields

Primary: Energy Economics, Environmental and Resource Economics
Secondary: Econometrics, Causal Inference, and Machine Learning

Research Experience

Research Fellow: U.S. Department of Energy (IBUILD) *2024*
Research Assistant for Dr. Michael Roberts, University of Hawai'i *2023*
Research Assistant for Dr. Nori Tarui, University of Hawai'i *2022*
Research Fellow: Hawai'i State Energy Office *2023 - 2024*
Research Fellow: Hawai'i Data Science Institute *2022 - 2023*
Research Assistant for Dr. Arthur Caplan, Utah State University *2020 - 2021*
Research Assistant for Dr. Tyler Brough, Utah State University *2020 - 2021*

Industry Experience

Economics Intern (Causal Machine Learning), Amazon *Summer 2024*
Vice President, Utah State University Data Science Club *2020 - 2021*
Cost Engineering Intern, Ames Construction *2020 - 2021*
Impact Evaluation and Data Analysis Consultant, USU Student Nutrition Access Center *2019 - 2020*

Teaching Experience

Instructor for Introduction to Statistics *Summer 2024*
TA for Principles of Microeconomics *Fall 2021*
TA for Principles of Macroeconomics *Fall 2021*
TA for Corporate Finance *Spring 2020*
TA for Financial Markets and Institutions *Spring 2021*
TA for Introduction to Statistics *2019 - 2020*

Publications

Hartley, Ethan, and Arthur J. Caplan. "Measuring the Social Net Benefits of COVID-19 Restrictions: The Case of Reduced Vehicle Use in a Pollution-Prone Region of Utah." *Journal of Environmental Protection* 12.11 (2021): 887-902. doi: 10.4236/jep.2021.1211052.

Presentations

WEAI 99th Annual Conference *July 2024*
- Rethinking Economic Policy Uncertainty: An AI-Based Approach. (Presenter, Session Organizer)

ASSA 2025 *January 2025*
- Navigating the Future: The Interplay of AI and International Economics. (Panelist)
- Variable Pricing Accelerates Decarbonization of the Electricity Sector: Implications from a High-Resolution Model of the Continental United States. (Presenter)

Awards, Scholarships, and Grants

Bernie Campbell Merit-Based Fellowship *2024*
Seiji Naya Outstanding First-Year Graduate Student Award *2022*
Highest Commendation on Theory Qualifying Exams *2022*
Caliendo-Lewis Research Scholarship *2020 - 2021*
Hansen Differential Tuition Scholarship *2020*

Skills

Python (Advanced)
R (Intermediate)
Big Data (Advanced)
Causal Analysis (Advanced)
SQL (Intermediate)
LaTeX (Advanced)
Deep Learning
High Performance Computing
Pytorch and Tensorflow

Working Papers and Projects

Cancer and Chronic Effects of Air Pollution
Narratives to Numbers: Machine Learning Applications for Harnessing Text as Data
Time-of-Use Electricity Pricing: Implications of Hawai'i's Pilot Program
A Proposal for Real-Time Pricing Tariffs for Large Electricity Customers
Distributional Impacts of Dynamic Pricing Transitions for Residential Electricity Consumers
Variable Pricing Accelerates Decarbonization of the Electricity Sector: Implications from a High-Resolution Model of the Continental United States
Distributional Consequences of the Inflation Reduction Act: Evaluating Long-Run Outcomes for Energy Communities