Aaron C. Watt

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Agricultural & Resource Economics
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Education

Ph.D. Agricultural & Resource Economics, University of California, Berkeley, 2020-Present.
  Dissertation: Consequences of Delegation in Air Quality Regulation
  Fields: Environmental, Public Finance, Industrial Organization
M.S. Applied Economics, Oregon State University, 2020.
B.S. Physics, Oregon State University, 2014.

Current Positions

2024-Present Graduate Student Researcher, Meredith Fowlie, ARE, UC Berkeley
  Renewable Energy Siting: Energy Production Simulation and Spatial Autoregressive Analysis

Past Positions

2024 Graduate Student Instructor, Meredith Fowlie, ARE, UC Berkeley
  The Economics of the Clean Energy Transition
2023 Pollution Policy Analysis Consultant, Resources for the Future (RFF)
  Satellite Data Valuables Project
2021–2023 Graduate Research Assistant, Larry Karp, ARE, UC Berkeley
  MLE and GMM AR(1) estimators in a model of pollution.
2021–2023 Administrative Assistant, Initiative on Equity in Energy and Environmental Economics,
  UC Berkeley, Energy Institute at Haas & Opportunity Lab at Center for Effective Global Action
2020–2021 Graduate Research Assistant, Sofia Villas-Boas, ARE, UC Berkeley
  Understanding impacts of COVID policies on small businesses.
2021 Graduate Research Assistant, Eugenie Dugoua & Marion Dumas, London School of Economics
  Natural language processing - analyzing the transition to electric in the automotive industry.
Oregon State University, Applied Economics
  2018-2022 Graduate Research Assistant, Robin Cross
    An application pipepline for satallite imagery access and analyis via computer vision.
  2018-2020 Graduate Teaching Assistant, Introduction to Environmental Economics
Oregon State University, Physics
  2013–2014 Undergraduate Teaching Assistant, Introduction to the Physics of Electronics
  2011–2014 Undergraduate Research Assistant, Janet Tate & David McIntyre
    Material Characterization via Spectroscopy and Ellipsometry.

For more information on my contribution to research projects, see my website: https://acwatt.net/research/

Other Positions

2020-2021 Event Coordinator, Economists for Equity at Berkeley, UC Berkeley
2015-2018 Support Services Coordinator, Jackson Street Youth Shelter

Programming Experience

Extensive Experience	Moderate Experience	Some Experience
Python	Stata	C++
Julia	R	Go
Mathematica	SQL	Google Cloud Services
Linux/Windows Scripting	Matlab	High-performance Computing Clusters
Google Earth Engine	Amazon Web Services	

Professional Activities

Energy Institute at Haas & Opportunity Lab at Center for Effective Global Action
      2023-2024 Research Mentor, Initiative on Equity in Energy and Environmental Economics
Agricultural & Resource Economics, UC Berkeley
      2023 Organizer, Remote Sensing Working Group
      2022-2024 Seminar Organizer, Environment, Resource, and Energy Economics Graduate Seminar
      2022-2023 Instructor, 1-day Introduction to Python for Econometrics
      2021-2022 Committee Chair; Diversity, Equity, Inclusion Committee on Undergraduate Outreach

Research Support

2025, Data Generation Grant, Agricultural & Resource Economics, University of California, Berkeley
      "AI Agent-based Permit Search and Data Extraction', $1,300
2023-2024, Energy Institute at Haas & Opportunity Lab at Center for Effective Global Action
      "Optimal Siting of Air Quality Monitors", $7,500

Publications

Journal Articles

With Kaj A. Overturf, Nathalie Steinhauer, Roberto Molinari, Mikayla E. Wilson, Robin M. Cross, Dennis vanEngelsdorp, Geoffrey R. Williams, Stephanie R. Rogers. "Winter weather predicts honey bee colony loss at the national scale." *Ecological Indicators*, (2022). `https://doi.org/10.1016/j.ecolind.2022.109709`

Working Papers/Works in Progress

"Optimal Pollution Monitor Placement and Regulation under Uncertainty." (2023-2025)
"Monitoring the Monitors: Using Consumer Products to Replace Missing Air Quality Data." (2022-2025)
With Robin M. Cross, Dennis vanEngelsdorp, Anthony Nearman, Karen Rennich, Mikayla Wilson, Nathalie Steinhauer. "Is Colony Collapse Disorder real? Testing and separating worker bee disappearance." (2020-present)
With Robin M. Cross, "Chasing Colony Collapse: Econometric and Machine Learning Methods to Address Biases in US Honey Bee Loss Surveys." (2020)