

ELISE BRESHEARS

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Contact Information

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Education

Michigan State University, East Lansing, MI

Ph.D., Economics (Dual Major: Environmental Science and Policy), expected 2023
M.A., Economics, Michigan State University, 2018

Portland State University, Portland, OR

M.S., Economics, 2017
B.S., Mathematics, *summa cum laude*, 2017
B.S., Economics, *summa cum laude*, 2015

Work Experience

Bonneville Power Administration, Portland, OR

Operations Research Analyst – Pathways Intern (40 hours per week)
June 2017 – August 2017

- Constructed a database of energy transfers to Canada, a product of the Columbia River Treaty, aggregating hourly loads in R
- Constructed a database of the non-scheduled load forecast, aggregating daily forecasts with Excel Visual Basic, to examine the accuracy between the planning and pre-schedule forecasts via hypothesis testing in R

Energy Trust of Oregon, Portland, OR

Planning Intern (20 hours per week)
April 2016 – May 2017

- Assisted planning managers in the development of Integrated Resource Plans for Portland General Electric and Pacific Power, measuring capacity in the form of expected energy savings from the organization's rebate program, using Excel and SQL
- Conducted an analysis of the organization's rebate program, calculating the attribution of energy efficient products that are exempt from cost-benefit analyses, as determined by the Oregon Public Utility Commission, using Excel and SQL
- Developed a market saturation model for energy efficient lighting products in the residential sector, using Analytica and SQL, to help make determinations about the future of the organization's rebate program

Social Security Administration, Beaverton, OR

Pathways Intern (40 hours per week)

August 2015 – September 2015

- Maintained the database of death certificates, coordinating the termination of social security benefits

Research Experience

National Bureau of Economics, Cambridge, MA (Remote)

Pre-Doctoral Fellow on Energy Economics (40 hours per week)

July 2021 – Present

- Evaluated the evolution of energy efficiency in the residential sector after the establishment of national housing policies (e.g., Fair Housing Act, Urban Renewal Projects, etc.) using difference-in-differences and spatial regression discontinuity designs in R

Michigan State University

Graduate Researcher (20 – 40 hours per week)

August 2018 – June 2021

- Designed and distributed a national survey on consumer behavior about recycling and single-use plastics using Qualtrics
- Estimated the impact of the Home Energy Score program on the real estate market using difference-in-differences and regression discontinuity designs in R
- Estimated the impact of the installation of LED street lights on crime and traffic accidents using a staggered difference-in-differences design in R
- Estimated the impact of local emissions testing on vehicle efficiency using a spatial regression discontinuity design in R

Research Assistant (20 hours per week)

January 2020 – May 2021

- Combined administrative data from the Hardest Hit Funds program with housing transaction data from Zillow to examine the impact of foreclosure assistance programs on home retention using linear regression in R

Portland State University

Research Assistant (20 hours per week)

December 2016 – August 2017

- Evaluated a national survey on herbicide resistance management, funded by the US Department of Agriculture, examining farmers' willingness to engage in cooperative approaches and best practices using logistic regression in R. This research is published in the Journal of Ecological Economics

Presentations

- 2022: Annual Conference, *Midwest Economic Association*; Annual Conference, *Western Economic Association International*
- 2021: Summer Workshop, *Empirical Methods in Energy Economics*
- 2020: Berkeley/Sloan Summer School in Environmental and Energy Economics, *University of California, Berkeley*; Student Summer Workshop, *Property and Environment Research Center*; Red Cedar Presentation, *Michigan State University*
- 2019: Energy and Environmental Economics Day, *Michigan State University*

Invited Workshops

- 2022: Summer Institute Workshop on Environmental and Energy Economics, *National Bureau of Economic Research*
- 2021: Colorado Technology Primer for Economists and Social Scientists, *Colorado School of the Mines*; Measuring and Reporting Corporate Carbon Footprints and Climate Risk Exposure, *National Bureau of Economic Research*; Summer Institute Workshop on Environmental and Energy Economics, *National Bureau of Economic Research*
- 2020: Berkeley/Sloan Summer School in Environmental and Energy Economics, *University of California, Berkeley*; Committee on the Status of Women in the Economics Profession, *Southern Economic Association*

Teaching Experience

Michigan State University

Instructor (40 hours per week)

July 2019 – August 2019

- Course: Introduction to Macroeconomics

Teaching Assistant (20 hours per week)

August 2017 – December 2019

- Courses: Introduction to Microeconomics, Intermediate Microeconomics, Intermediate Macroeconomics, Economic Analysis of Sub-Saharan Africa, and Economics of Global Climate Change

Portland State University

Teaching Assistant (20 hours per week)

January 2016 – June 2017

- Courses: Principles of Microeconomics, Principles of Macroeconomics, Microeconomic Theory with Calculus, Advanced Microeconomics (Graduate Course), Mathematical Economics (Graduate Course), Introduction to Econometrics, International Economics, International Trade Theory, and Economics of Environmental Issues

Awards and Fellowships

- Pre-Doctoral Fellowship on Energy Economics, *National Bureau of Economic Research*, 2021 – 2022
- Graduate Research Fellowship, *Property and Environment Research Center*, 2020
- Red Cedar Award (Top Third-Year Research Paper), *Michigan State University, Department of Economics*, 2020
- Environmental Science and Policy Program Doctoral Recruiting Fellowship, *Michigan State University*, 2017 – 2018
- Academic Achievement Award (Top Master's Student), *Portland State University, College of Urban and Public Affairs*, 2017
- Linda Hamilton Award (Top Master's Student), *Portland State University, Department of Economics*, 2017
- Harold Vatter Award (Top Undergraduate Student), *Portland State University, Department of Economics*, 2016

Service

Michigan State University

- Graduate Student (First-Year) Mentor, *Department of Economics*, 2019 – 2020
- Graduate Student Organization, *Department of Economics*, 2019 – 2020

Portland State University

- Graduate Student Advisory Council, *College of Urban and Public Affairs*, 2016 – 2017

Professional Affiliations

Association of Environmental and Resource Economists

Technical Skills and Expertise

Software (Advanced): LaTeX, Microsoft (Excel, PowerPoint, Word), Slurm Workload Manager, and R

Software (Intermediate): Analytica, ArcGIS, GAUSS, MATLAB, SQL, Stata, Qualtrics, and Visual Basic

Research: Demand Estimation, Difference-in-Differences, Regression Discontinuity, Spatial Analysis, Survey Design, and Other Data Management and Visualization