

John M. Morehouse, Ph.D.

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References: [Ryan Vaughn](#), [Trudy Ann Cameron](#), [Mark Colas](#), [Ed Rubin](#)

Skills: R, Python, SQL, Julia, SAS, Version Control, Causal Inference, Machine Learning

EDUCATION

University of Oregon

Ph.D., Economics

June 2022

M.S., Economics

December 2018

B.S., Economics & Minor in Mathematics

June 2016

EMPLOYMENT

Freddie Mac

August 2023 - Present

Quantitative Analyst Technical Lead (Climate Risk)

Promoted from Senior in Sept. 2024

- Creating and executing a methodology that maps physical climate risks (hurricanes, floods, etc.) to credit loss by integrating vendor model outputs with internal credit loss models.
- Analyze climate and housing data from private and public sources to provide multiple views of current and future climate risk.
- Review code from junior analysts and assure management of code quality.
- Served as lead analyst on cross-divisional effort that assessed the impacts of energy efficiency codes on borrower outcomes.
- Set up and deployed cloud computing and version control (Bitbucket) for a broader team of 10+ people.

Freddie Mac

August 2022 - August 2023

Senior Quantitative Analyst (Model Audit)

- Analyzed mission-critical models impacting portfolio worth over two trillion dollars to ensure business efficacy and compliance with various regulatory requirements.
- Engaged and interviewed expert model developers and validators to form independent opinions on model-related issues and audits.

University of Oregon

September 2017 - June 2022

Graduate Employee

- Taught various undergraduate courses (urban economics 3x ([slides](#)), econometrics 1x).

Federal Reserve Bank of San Francisco

July 2021 - August 2021

Thomas J. Sargent Dissertation Intern

- Conducted academic research on climate policy and presented findings.

Vivid Economics

July 2020 - December 2020

Intern → Freelance Economist

- Led (managed one other employee) the development of global and regional energy demand projections.
- Developed cost estimation strategy for the UN's Sustainable Development Goals using a CGE model.

RESEARCH PAPERS

The Environmental Cost of Land-Use Restrictions

with Mark Colas [Paper](#), [Minneapolis Fed Coverage](#)

Quantitative Economics, 2022. 13(1): 179-223.

Downwind and Out: The Strategic Dispersion of Power Plants and Their Pollution

with Ed Rubin [Draft](#), [Slides](#)

Conditionally Accepted: Journal of the Association of Environmental and Resource Economists

Carbon Taxes in Spatial Equilibrium

Won “Best graduate student research paper” award (University of Oregon) [Draft](#)

In Search of Peace and Quiet: The Heterogeneous Impacts of Short-Term Rentals on Housing Prices

with Brett Garcia and Keaton Miller [Draft](#), [Slides](#)

The Distributional Impacts of Climate Change Across US Local Labor Markets

with Emmett Reynier

Labor Market Power in a Spatial Equilibrium

with Claudio Luccioletti and Sophie Mathes