

Department of Economics
 University of Wisconsin–Madison
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EDUCATION

University of Wisconsin–Madison – Ph.D. in Economics (Expected May 2024)

Research Interests: Industrial Organization, Applied Econometrics, Applied Microeconomics,
 Real Estate Finance

University of Wisconsin–Madison – M.S. in Economics (2020)

University of Missouri–Columbia – B.S. in Mathematics and Physics (2017)

RESEARCH EXPERIENCE

University of Wisconsin–Madison

Ph.D. Student

Fall 2017—Present

- Analyzed data on the U.S. mortgage market at every stage from origination to securitization
- Matched mortgages across eight different data sources to create a unique dataset tracking mortgages from origination through repayment
- Used machine learning methods to flexibly estimate the sale and securitization decisions of mortgage lenders
- Used survival models to estimate loan survival and cash flows to mortgage servicers
- Collaborated with researchers in multiple departments across multiple projects
- Scraped over one million listings from a firearms platform to build a dataset of secondary market firearm prices

Research Assistant for Kenneth Hendricks

Fall 2020 – Present

- Modeled tract-level oil production and bids using Gaussian process regressions
- Mined government publications for historical data on oil and gas production
- Tested for common values and asymmetric information in mortgage auctions using a variety of parametric and non-parametric models

Project Assistant for Lorenzo Magnolfi

Spring 2020, Summer 2021

- Simulated pricing histories for sellers using regret-minimization or fictitious play strategies to show convergence to a Bayes coarse correlated equilibrium and estimated parameters of a simple corresponding pricing model using a commercial linear solver.
- Cleaned scraped data on prices of used electronics to create a dataset of sellers' listing and pricing behaviors over time.

Project Assistant for Christopher Sullivan

Summer 2019

- Estimated consumer demand in the market for beer using random coefficient nested logit models
- Cleaned data on airline markets and estimated demand for airline tickets with nested logit models

University of Missouri

Undergraduate Researcher for Gavin King

Spring 2015–Spring 2017

- Imaged ribosomes using a commercial atomic force microscope
- Built a finite elements model of electromagnetic backscattering in atomic force microscopy

SKILLS

Programming Languages: Python, Stata, MATLAB

Datasets: Home Mortgage Disclosure Act loan data, agency residential mortgage backed securities data, CoreLogic mortgage/MLS/property data

RESEARCH PAPERS

Working Papers

“Adverse Selection in the Wholesale Mortgage Market”, Job Market Paper

“Asymmetric Information and the Supply Chain of Mortgages: The Case of Ginnie Mae Loans”, (with Ken Hendricks, Jean-François Houde, and Diwakar Raisingh)

“Markets for Firearms” (with Elise Marifian)

“Network Externalities in Patent Citation Networks”

TEACHING EXPERIENCE

University of Wisconsin–Madison

- ECON 713: Microeconomic Theory II (Ph.D. Level), Lones Smith & Marzena Rostek, Spring 2020
- ECON 100: Economic Approach to Current Issues, Professor Christopher Sullivan, Fall 2019
- ECON 521: Game Theory and Economic Analysis, Professor David Hansen, Spring 2019
- ECON 522: Law and Economics, Daniel Quint, Fall 2018
- ECON 101: Principles of Microeconomics, David Johnson, Fall 2017

University of Missouri

- Money and Banking, Lloyd Thomas, Spring 2017

AWARDS AND SERVICE

Awards

- Juli Plant Grainger Summer Research Fellowship, UW-Madison, Summer 2019, Summer 2020
- Juli Plant Grainger Teaching Assistant Scholarship, UW-Madison, Fall 2018, Spring 2020
- Newell S. Gingrich Scholarship, University of Missouri, 2015-2017
- O.M. Stewart Undergraduate Research Scholarship, University of Missouri, 2015
- Millard Maienthal Memorial Scholarship, University of Missouri, 2014-2015

Service

- Technology Officer, Wisconsin Economics Graduate Organization, 2018 – 2021
- Intern (University of Missouri, Civic Leaders Internship Program), MO Division of Energy, 2017

REFERENCES

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