

Xiaonan (Steve) Ma

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Summary

Experienced in large-scale data analysis with programming and statistical modeling.
Ability to share results with a variety of audiences and advance multiple projects at once on a tight schedule.
Advanced verbal and written communication skills, in both Mandarin Chinese and English.

Education

Ph.D., Econometrics and Quantitative Economics , <i>University of Rochester</i>	2019 – present
• Research Fields: Macroeconomics, Labor Economics, Search and Matching, Household Finance	
Master, Economics , <i>Tsinghua University (Top 2 in China)</i>	2016 – 2019
BA, Economics , <i>Peking University (Top 2 in China)</i>	2013 – 2016
BA, Management Information System , <i>Beijing Technology and Business University</i>	2011 – 2015

Skills

Programming Language: Python, Julia, MATLAB, Stata, R, SAS, SQL, \LaTeX .
Scientific Computing: Dynamic Programming, Nonlinear Optimization, Parallel Computing.
Data Science: Large-scale Datasets, Causal Inference, Time Series, Machine Learning, Statistical Modeling.

Experience

Special Sworn Status Principal Investigator (PI), US Census Bureau	December 2022 – Present
• Extract, organize, and analyze large-scale data sets from individuals and firms using SAS/Stata/MATLAB. • Estimate the effect of worker/firm choice in labor market using econometric methods. • Computationally simulate, calibrate, and estimate a dynamic model using Julia and MATLAB.	

Instructor, University of Rochester	May 2022 – June 2022
• Teaching a summer course - Intermediate Macroeconomics.	

Research Assistant, University of Rochester	2021 - Present
• Help construct, simulate, and solve heterogeneous agent models with tail risk. • Estimate the power and robustness of the model using Monte Carlo simulation.	

Teaching Assistant, University of Rochester	2021 - 2024
• Recitation/lectures and grading for undergraduates/MBAs on statistics, econometrics, macroeconomics.	

Selected Working Papers

Earnings Dynamics, Transitions, and Stepping-stone Employers	[Link]
• Empirical evidence of earnings dynamics upon job transitions using large panel data. • Identify motivations for transitions by linking survey data with matched employer-employee panel. • Estimate the role of firms as stepping-stones for workers with a dynamic search model.	

A Simple Search Model with Employer Network	[Link]
• Construct, solve and simulate a search model with employer network structure using Julia/MATLAB.	

Human Capital, Job Ladders, and Life-Cycle Labor Supply , with Paulo Lins
<ul style="list-style-type: none">• Provide new facts about the behavior of total annual hours over the life cycle using NLSY79 data.• Propose a new model that nests different theories to explain the our empirics about hours profile.

Selected Fellowships & Awards

- Professional Development Funding, University of Rochester, 2024
- Conibear Prize for the best third-year paper, University of Rochester, 2022
- McKenzie Fellowship, University of Rochester, 2019-2024
- Tachiki Graduate Scholarship, Tsinghua University, 2017, 2018