

Zhu Liang

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SUMMARY

Economics Ph.D. candidate with specialization in empirical industrial organization and healthcare market analysis. Skilled in R and Python, proficient in managing large datasets and developing econometric models. Eager to apply expertise in consulting and tech industries to drive value.

EDUCATION

Ph.D. in Economics, STEM, Stony Brook University 2019 - 2025 (Expected)

Fields: Empirical IO, Health Economics, Product Design

Advanced Graduate Certificate in Data and Computational Science 2022 - 2023

Institute for Advanced Computational Science, Stony Brook University

- Gained proficiency in computer science foundations, including data structures and algorithms. Performed parallel computing projects on HPC clusters using C with MPI.
- Employed Python for data science tasks, integrating machine learning libraries like Scikit-learn. Developed a restaurant recommender webpage using NLP tools on Yelp feedback data.
- Honed communication skills to effectively explain technical projects to non-expert audiences.

M.S. in Economics, University of Wisconsin-Madison 2017 - 2019

EXPERIENCE

Job Market Paper

“Risk Adjustment, Self-Selection, and Plan Design in Medicare Advantage” - Accepted for ASSA 2025

- Employed MATLAB to implement a BLP style model that dissects the decision-making processes among consumers, firms, and government entities within the health insurance market.
- Analyzed consumer behavior under self-selection using a logit model of discrete choices, incorporating simulations of private information to identify heterogeneous factors that influence consumer preferences.
- Investigated the supply side using a Nash-Bertrand competition framework to recover markups and assess optimal product designs, providing insights into trends in MA plan design and instances of overpayment.
- Quantified the welfare impacts of current risk adjustment policies and consumer self-selection behaviors.

Research Assistant, Stony Brook University 2021 - 2023

- Conducted data cleaning and preprocessing on daily transaction data from a major online automotive marketplace using R data.table.
- Managed complex survey data from the Medicare Current Beneficiary Survey, integrating data across various subsections using Tidyverse to construct a detailed individual information database.

Teaching Assistant, Stony Brook University 2019 - 2024

- Conducted recitation classes for Empirical IO and Econometrics courses, focusing on problem-solving sessions and guiding students in the use of statistical software such as R and Stata.
- As Head TA, coordinated activities across multiple TA-led sessions, assigned tasks, and facilitated communication between instructors and TAs.

CERTIFICATIONS, SKILLS

GitHub Foundations, GitHub 2024

Google Data Analytics Professional Certificate, Coursera 2022

Programming: R, MATLAB, Python, SQL, C, MPI, Copilot, Git, \LaTeX

Languages: English (Fluent), Mandarin (Native)