

Jiaxu Han

Stony Brook, New York | Jiaxu.han@stonybrook.edu | +16313049509 | [Linkedin](#)

EDUCATION

Stony Brook University, Stony Brook, NY, U.S. Doctor of Philosophy in Economics, Specialization in Industrial Organization	Expected May 2026
Stony Brook University, Stony Brook, NY, U.S. Master of Business Administration in Finance	May 2019
Northeast Petroleum University, Daqing, Heilongjiang, China Bachelor of Science in Economics	May 2017

SKILLS

- Proficient in R, Python, Stata, MATLAB, SQL, and Microsoft Office (Excel, PowerPoint, Word). Machine learning, and large-scale data processing.
- 7+ years of experience in data analysis, visualization, and working with large-scale datasets from Amazon, Consumer Expenditure Survey (CES) (1M+ observations), Health and Retirement Study (HRS), and Highway Statistics Series.
- Strong background of mathematical modeling, including discrete choice models, dynamic models, Monte Carlo simulations, causal inference, etc.
- Excellent public speaking and presentation skills, capable of conveying complex technical concepts to diverse audiences.
- Proficient in English, native in Chinese, beginner in French.

WORK EXPERIENCE

Amazon.com, Inc., Seattle, WA, U.S.

<i>Economist Intern</i>	<i>June 2025 – September 2025</i>
<ul style="list-style-type: none">• Designed and implemented an estimation and counterfactual pipeline in Python from raw data to business application, including IV-2SLS and nested logit models.• Processed large datasets with 7M+ observations and generated analytical plots and tables to highlight key insights.• Effectively communicated with manager and team members, and delivered results to stakeholders from diverse backgrounds.	

Department of Economics, Stony Brook University, Stony Brook, NY, U.S.

<i>Teaching Assistant</i>	<i>Aug 2021 – Present</i>
<ul style="list-style-type: none">• Assisted in Statistics (2 semesters), Econometrics (4 semesters), and Intermediate Macroeconomics (1 semester).• Led two weekly recitations for classes of 40-70 students, guiding them through homework, R, and Excel.• Coordinated grading, tracked teaching progress, and proctored exams.	

Instructor of Industrial Organization, Data Science and Machine Learning in Economics

July – Aug 2024, 2025

- Designed the syllabus and coordinated teaching assistant tasks.
- Prepared and delivered lectures, assignments, and exams for 40 students.
- Provided academic support and addressed student inquiries.

Research Assistant for Professor Steven Stern

July 2024 – Oct 2024

- Process bi-annual Health and Retirement Study (HRS) survey data (1994-2018) using Stata.
- Standardize questionnaire variables across years for consistent analysis.
- Collaborate with the professor to adjust and ensure data consistency.

RESEARCH EXPERIENCE

Department of Economics, Stony Brook University, Stony Brook, NY, U.S.

<i>Households' car portfolio and maintenance choice. (Job Market Paper)</i>	<i>Aug 2021 – Present</i>
<ul style="list-style-type: none">• Developed a dynamic discrete choice model to analyze U.S. household car portfolio choices and maintenance decisions.• Managed and processed over 1M observations from CES data (1996-2023) using Stata.• Estimated the model via Maximum Simulated Likelihood in Python.	

Pricing Strategy for a Software Company to Enter an Immature Market

Aug 2020 – Dec 2020

- Built an economics model to quantify the two-sided effects of software piracy on profits and future customer acquisition.
- Designed Monte Carlo simulations in MATLAB to estimate the impact of pricing strategies on market share and long-term profit.
- Explored the role of network effects in reducing piracy and maximizing profitability in emerging markets.

How Geographic Factors Affect Vehicle Types Demand?

Jan 2020 – May 2020

- Built and Estimated a discrete choice model to capture geographic effects on vehicle type demand across U.S. states.
- Processed state-level data from Highway Statistics Series (1999-2018) using Stata.
- Analyzed product-level aggregate data to infer individual vehicle choice behavior.

CONFERENCE & PRESENTATION

- Chinese Economists Society (CES) 2024 North America Annual Conference *March 30-31, 2024*

AWARDS & ACTIVITIES

- Graduate Fellowship Award including full tuition waiver and stipend payments (Stony Brook University, 2021-present).
- Co-Organizer of Economics Research Group, Economics Department, Stony Brook University, Stony Brook, NY, U.S.
- Online Teaching Certificate (Center for Excellence in Learning and Teaching at Stony Brook University).
- Vice President, Student's Association Union, Northeast Petroleum University, Daqing, Heilongjiang, China