Junyu Zhang

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EDUCATION

Stony Brook University   **Stony Brook, New York**
Ph.D. in Economics (Advisors: Steven Stern, Mark Montgomery)   *Expected May 2026*
Wuhan University   **Stony Brook, New York**
B.A. in Economics   *April 2019*

TECHNICAL SKILLS

Programming: Python (Pandas, Numpy, SymPy, Matplotlib, Plotly), SQL, R, MATLAB, Stata, Excel, Fortran, Parallel Computing.
Econometrics Expertise: Causal inference, time series analysis, structural modeling, Bayesian updating, optimization, simulation, discrete choice model, machine learning.
Tools: Microsoft Office (Outlook, Word, Excel, PowerPoint), LaTeX.
Data Management: Large-scale data processing, data cleaning, and visualization.
Languages: English (Fluent), Mandarin (Native), French (Beginner).

RESEARCH PROJECTS

Financial Burden and College Human Capital Investment   *September 2022 – Present*
- Developed a dynamic structural model in Python (using MLE) to analyze college major selection and human capital investment.
- Integrated NLSY97 and IPEDS data to simulate tuition costs and assess post-graduation employment outcomes, highlighting wage heterogeneity across majors.
- Conducted counterfactual policy experiments to evaluate the impact of student loan policies on academic performance and earnings.
- Presented at the Chinese Economists Society (CES) North America Annual Conference.

School Violence, Mental Health, and Academic Outcomes   *February 2024 – January 2025*
- Estimated bullying's causal effects on mental health and academic performance using a structural simultaneous equation model in Stata with NSCH data, revealing distinct effects in immigrant versus native children.
- Presented at the 2025 ASSA Annual Meeting and the Pennsylvania Economic Association (PEA) Annual Conference 2024.

Spousal Influence on Smoking Behavior   *April 2023 – May 2024*
- Estimated a simultaneous equation model with censored variables in Python using PSID data, revealing robust spousal effects on smoking and significant gender differences.
- Presented at the Western Economic Association International (WEAI) 2024 Annual Conference and the ASHEcon 2024 Annual Conference.

Marriage, Gender, Race, Intergenerational Mobility   *May 2020 – April 2021*
- Developed improved household income adjustment methods and applied log-log and rank-rank models to evaluate marriage's moderating effect on income mobility across gender and racial groups.

Regional Innovation Ecosystem Health Assessment   *September 2018 – August 2021*
- Used principal components analytic method to construct a new evaluation index system evaluating the innovation ecosystem.
- Produced a government report and an academic paper, published in *Innovation and Development Policy*.

WORK EXPERIENCE

Economics Department at Stony Brook University | *Instructor and Teaching Assistant*   *September 2019 – Present*
- Instructed over 70 students per semester in Econometrics, Labor Economics and Corporate Finance, simplifying complex theories through effective presentations and collaborative learning.
- Assisted in Ph.D.-level courses, including Mathematical Statistics and Econometrics, supporting advanced quantitative methods and coding in Python and R.

Academy of Development of Wuhan University | *Research Assistant*   *October 2016 – June 2019*
- Collaborated on projects for the National Development and Reform Commission (NDRC), employing advanced analytical models (e.g., PCA, SE-DEA) to evaluate development efficiency.
- Designed innovative data solutions using SAS and MATLAB, creating actionable insights from extensive datasets to guide regional innovation strategies.
- Drafted grant proposals, government research reports, literature reviews, and contributed to academic publications in peer-reviewed journals.

AWARDS

Graduate Fellowship Award | *Stony Brook University*   *2019 – Present*
Travel Funding for Conference Presentations | *Economics Department at Stony Brook University*   *2025 & 2024*
Professional Development Fund | *Graduate Student Organization (GSO)*   *2024*

CERTIFICATES

CFA (Level I)   *August 2023*
Online Teaching Certificate   *May 2023*