

Shiying Xiao

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Education

- **Ph.D. in Statistics** August 2023 – August 2027 (expected)
University of Connecticut
Advisor: [Prof. Jun Yan](#) Storrs, CT
- **M.Econ. in Statistics** September 2019 – July 2022
Shanxi University of Finance and Economics
Advisor: [Prof. Tao Wang](#) Taiyuan, China
- **B.Econ. in Insurance** September 2015 – July 2019
Shanxi University of Finance and Economics
Taiyuan, China

Research Interests

- Applied Econometrics, Input-Output Analysis, Macroeconomic Statistical Analysis, National Economic Accounting, Network Analysis

Experience

- **Teaching Assistant** August 2022 – July 2023
Fuzhou University of International Studies and Trade
Fuzhou, China
 - Financial Statistics (C010500810): 3 credit undergraduate level; Fall 2022.
 - Public Finance (C010200160): 2 credit undergraduate level; Fall 2022.
 - Investment Banking (C010402720): 2 credit undergraduate level; Spring 2023.
 - Data Visualization Design (C010405620): 2 credit undergraduate level; Spring 2023.
 - Business Data Mining & Analytics (C010402930): 2 credit undergraduate level; Spring 2023.
- **Research Assistant** June 2019 – July 2022
Shanxi University of Finance and Economics
Taiyuan, China
 - Projects in the area of network analysis and national economic accounting: development of methodology, management activities to maintain research data, implementation of the computer code, and data presentation.
 - Projects in the area of network analysis, input-output analysis, and macroeconomic statistical analysis: ideas, data collection and cleaning, application of statistical to analyze data, and visualization.

Publications

1. Wang, T.* and [Xiao, S.](#) (2022). A Comparative Study of Domestic Industrial Circulation between China and the United States from the Perspective of Input-Output Network. *Statistical Research*, 39(11): 32-43. [URL](#) (in Chinese with English abstract)
2. [Xiao, S.*](#), Yan, J. and Zhang, P. (2022). Incorporating Auxiliary Information in Betweenness Measure for Input-Output Networks. *Physica A: Statistical Mechanics and its Applications*, 607: 128200. [DOI](#)
3. Wang, T., [Xiao, S.](#), Yan, J. and Zhang, P.* (2021). Regional and Sectoral Structures of the Chinese Economy: A Network Perspective from Multi-Regional Input-Output Tables. *Physica A: Statistical Mechanics and its Applications*, 581: 126196. [DOI](#)

Preprint

- Wang, T., [Xiao, S.](#), and Yan, J. (2023). Comparison of Sectoral Structures between China and Japan: A Network Perspective. Submitted to *Socio-Economic Planning Sciences*.

Software

[Xiao, S.](#), Yan J. and Zhang, P. (2023). ionet: Network Analysis for Input-Output Tables. R package version 0.2.2, <https://github.com/Carol-seven/ionet>.

Computer Skills

- **Languages:** R, Stata, Python, C++ (basic)
- **Applications:** Git, L^AT_EX, Markdown