

# Shiying Xiao

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GitHub: Carol-seven

## Education

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### Shanxi University of Finance and Economics

Taiyuan, Shanxi, China

- M.Econ. in Statistics

September 2019 – July 2022

- Thesis: Study on the heterogeneity of global trade networks in intermediate and final goods
- Advisor: Dr. Tao Wang

- B.Econ. in Insurance

September 2015 – July 2019

## Research Experience

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### Research Assistant

June 2019 – July 2022

Shanxi University of Finance and Economics

Taiyuan, Shanxi, 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.
  - The National Social Science Fund of China, 21BTJ013, 09/2021–present, “Research on the Compilation and Application of the International Flow of Funds Table”.
  - National Bureau of Statistics of China, 2018LZ33, 06/2018–12/2020, “Research on the Compilation and Model Application of Inter-Provincial Input-Output Tables in China”.
- 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.
  - Shanxi Provincial Federation of Social Sciences, SSKLZDKT20211075, 08/2021–12/2021, “Study on the Index System of High-Quality Tourism Development in Shanxi Province”.
  - Shanxi Academy of Social Sciences, 2020YY119, 10/2020–06/2021, “Study on the Index System of High-Quality Development in Shanxi”.
  - Shanxi Provincial Bureau of Statistics, KY[2020]046, 08/2020–12/2020, “Study on the Scale Benefit of High-Tech Industry in Shanxi”.
  - Shanxi Provincial Bureau of Statistics, KY[2019]151, 11/2019–11/2020, “Study on the Evaluation Index System of Industrial Competitiveness in Shanxi Province”.
  - Shanxi Academy of Social Sciences, 2019B100, 08/2019–06/2021, “Study on the Monitoring and Evaluation Index System of Rural Social Undertakings in Shanxi Province”.

## Publications

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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](#)

## Software

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**Xiao, S.**, Yan J. and Zhang, P. (2022). ionet: Network Analysis for Input-Output Tables. R package version 0.2.0, <https://github.com/Carol-seven/ionet>.

## Computer Skills

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R, Stata, L<sup>A</sup>T<sub>E</sub>X, Markdown, Python, C++ (basic)