



# SHENSHEN (SERGIO) ZHANG

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Institution: Shanghai Jiao Tong University

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## Research Interest

Complex Network; Computational Politics; Climate Change and Environmental Economics; Mathematical Statistics.

## Education

**2017.09 - 2021.06, Nankai University**, College of Chemistry, Bachelor of Science (**Applied Chemistry**).

Research Area: Computational Chemistry, symiddle molecule. Thesis: *Synthesis and Properties of Organic Molecules for Disposing the Formaldehyde Wastewater*.

**2021.09 - 2023.06, Shanghai International Studies University**, School of Economics and Finance, Master of **International Business**.

Research Area: Corporate Finance, Environmental Economics, International Trade, Complex Network. Thesis: *The Approach of the Knowledge Complexity Promoting the National Economic Growth*.

**2024.09, Shanghai Jiao Tong University**, School of International and Public Affairs, Ph. D.-student of **Politics (International Relationship)**.

Research Area: Global Governance, Quantitative Politics, Complex Network.

## Article (Journal)

**Shenshen Zhang** and Paul Zhang. A new approach on measuring the knowledge complexity in the view of the bipartite. **Applied Economics Letters**, 2024, 31(2): 146 - 151. (SSCI Q3, IF = 1.2)

**Shenshen Zhang**. The Impact of Digital Transformation on ESG Performance and the Moderating Effect of Mixed-Ownership Reform. **Corporate Social Responsibility and Environmental Management**, 2024, 31(3): 2195 - 2210. (SSCI Q1, IF = 9.8)

**Shenshen Sergio Zhang**. Knowledge complexity based on coupled equations within the bipartite network. **Information Sciences**, 2024, 677: 12093. (SCI Q1, IF = 8.1)

**Shenshen Zhang** and Mingqian Zhang. Is Productive Service Intermediate Input a good instrument for enhancing the Global Value Chain participation. **Structural Change and Economic Dynamics**. (Rivise & Resubmit)

**Shenshen Zhang** and Mingqian Zhang. How does complex knowledge promote regional economic growth within the "Belt and Road". **Journal of the Knowledge Economy**. (Rivise & Resubmit)

**Shenshen Zhang** and Mingqian Zhang. Are both quantity and quality of green innovation exalted in polluting firms under environmental regulation. **China Economic Review**. (Peer Review)

**Shenshen Zhang** and Hongsong Liu. Located by Geo-political Shock. **World Development**. (Peer Review)

**Shenshen Zhang**. Rethinking the competition of export trade based on the bipartite network. (Pre-print in SSRN)

## Article (Conference)

**Shenshen Zhang**, Mingqian Zhang. "Resurveying the Knowledge Complexity under a New Perspective—Within in the Bipartite Network Mode." The 19<sup>th</sup> China Networks Science Forum, Southwest University, 2023.

**Shenshen Zhang**, Mingqian Zhang. "How does complex knowledge promote regional economic growth within the 'Belt and Road'?" The 3<sup>rd</sup> china big data statistics forum, Shandong University of Finance and Economics, 2023.

## Peer Review Experience

As a Reviewer: Corporate Social Responsibility and Environmental Management; Eurasian Business Review; Journal of Infrastructure, Policy and Development; Eco Cities.

## Academic Association

Shanghai Statistical Society, Invited Researcher (2023.07)

## Honor & Award

30<sup>th</sup> Chinese Chemistry Olympiad (CChO) - 1<sup>st</sup> Prize

33<sup>rd</sup> Chinese Physics Olympiad (CPhO) - 3<sup>rd</sup> Prize

25<sup>th</sup> China High School Biology Olympiad (CHSBO) - 2<sup>nd</sup> Prize

## Computer Skill

Programming Language: R (Package Encoding、Programme Design、Network Modeling、Visualization), Visucal Basic, Python (Crawler、Deep Learning)

Programming Tool: R Studio, Visual Studio, Python

Mathematical Tool: Mathematica, Matlab, VBA for Excel (Macro), stata.