

YAJIE XU

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Education

Ph.D. Economics, University of South Florida, USA **2021 - Present**
B.S. Economics, Hubei University, China **2016 - 2020**

Research Interest

Social and Economic Networks; Innovation; Complex Systems

Publication

- Xu, Y. (2020). The Impact of Executive Compensation on Enterprise Scale: Based on the Empirical Study of Innovative Firms. *China Journal of Commerce*(1),108-113.
- Xu, Y. (2019). The study of style rotation in Chinese stock market. In *proceedings of the 3rd international conference on business and information management* (pp. 80-86).

Presentation & Conference

- **Poster & Contributed Talk:** Coevolution of Innovation and R&D Networks: Exploring The Impact of Immigrants. *Conference on Complex Systems 2024* and *11th workshop on Complexity in Economics & Finance*. Exeter, England. September 2-6, 2024
- ACM Collective Intelligence 2024. Boston, USA. June 26-29, 2024
- **Poster:** Immigrants and innovation: How they shaped R&D networks and stimulated knowledge spillover. *NetSci 2024*. Québec City, Canada. June 16-21, 2024
- Ninth Annual Conference on Network Science and Economics. Minneapolis, USA. April 19-21, 2024
- **Contributed Talk:** The Study of Style Rotation in Chinese Stock Market. *ICBIM 2019*. Paris, France. September 12-14, 2019
- **Contributed Talk:** The Impact of Executive Compensation on Enterprise Scale – Based on the Empirical Study of Innovative Firms. *The 11th Hubei University Students Economic academic seminar*. Wuhan, China. December 20, 2018

Research Experience

Project on Immigrants and R&D Collaboration Networks **10/2022 - Present**
Research Leader *University of South Florida*

- Managed the initiation and development of this project, overseeing all aspects.
- Coordinated and directed a team of 10 master's students for data collection, leveraging diverse data sources to build a comprehensive dataset.
- Pursued extensive learning across various disciplines, including courses and self-directed study in Network Game Theory and Bayesian Econometrics.
- Engaged in conferences to gather feedback and insights, applying these learnings to refine research approaches.
- Provided findings on the impact of immigrant entrepreneurs on technological spillovers and network dynamics.

Environmental Law, Innovation and Productivity Growth **09/2019 - 02/2021**
Research Leader *Hubei University*

- Proposed and initiated this project.

- Collected and synthesized extensive information on China's environmental laws, including data from environmental protection courts and various legal cases, with guidance from academic experts and industry specialists.
- Mastered advanced econometric techniques such as Difference-in-Differences (DID) and propensity score matching to uncover the mechanisms by which environmental laws stimulate productivity growth through enhanced innovation capabilities.

Quantitative Investment Research Intern

01/2019-09/2019

Research Assistant

Peking University

- Designed a novel quantitative indicator based on time series methods, successfully detecting and predicting the style changes in the Chinese stock market.
- Conducted extensive simulations to compare different financial models through several transaction data to validate the robustness of the proposed method.
- Authored a published paper presenting the findings, which demonstrated the superior performance of the new index compared to traditional benchmarks.

Entrepreneurship, Company Performance, and Innovation Subsidies

09/2018-01/2020

Research Leader

Hubei University

- Conceptualized and initiated the project, forming and leading a research team.
- Proposed a novel methodology to analyze the role of R&D investment in mediating the relationship between executive compensation and firm performance.
- Authored and published a paper based on the research findings and delivered a contributed talk that received a recognition award.

Relevant Coursework

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|-------------------------------|---------------------------|-----------------------------|
| • Microeconomics I II | • Bayesian Data Analysis | • Industrial Organization I |
| • Macroeconomics I II | • Bayesian Econometrics | • Economic Policy Analysis |
| • Econometrics I II III IV | • Social Network Analysis | |
| • Mathematical Economics I II | • Labor Economics I II | |

Advanced Training & Certifications

MITx Programs

Achieved grades of 90 or above in all courses (out of 100).

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| • MicroMasters [®] program in Statistics and Data Science | 2024 |
| * Probability | * Machine Learning |
| * Fundamentals of Statistics | * Data Analysis |
| • Computational Thinking using Python | 2021 |
| * Computer Science and Programming Using Python | * Computational Thinking and Data Science |

Vrije Universiteit Amsterdam

GPA: 10.0/10.0, ranked in the top 0.6% of students in the programs at Vrije Universiteit Amsterdam.

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| • Econometrics of Networks (Summer School) | 2023 |
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Teaching Experience

Instructor

* ECO2013 Econ Princpl (Macroeconomics)

Teaching Assistant

- * ECO4421 Intro to Econometrics
- * ECO4421L Econometrics Lab
- * ECO4401 Intro Mathematical Economics
- * ECO4400 Game Theory & Economic Appls
- * ECO4270 Economic Growth
- * ECO3203 Intermediate Macroeconomics
- * ECO3101 Intermediate Price Theory
- * ECO2052 Analytical Tools for Economist

Leadership & Service

- Volunteer Online English Tutor** *Ministry of Education of the People's Republic of China* **01/2020-04/2020**
- Community Development Assistant** *China Poverty Alleviation and Development Office* **07/2018-08/2018**
- Student Union Health and Sports Officer** *Hubei University* **2016-2017**
- Class President** *Hubei University* **2016-2017**
- Student Photographer** *Wuhan No.6 Middle School* **2013-2016**

Honors & Achievements

- * WLP/Dr. Jane Applegate Promising Scholar Award (\$4,000), University of South Florida **2024**
- * Conference Presentation Grant Program, University of South Florida **2024**
- * ITA (International Teaching Assistantship) certification, University of South Florida **2022**
- * Graduate Assistance Scholarship, University of South Florida **2021-Present**
- * First Rank of Undergraduate Thesis, Hubei University **2020**
- * Outstanding Academic Scholarship, Hubei University **2017-2019**
- * Merit Student, Hubei University **2017-2019**
- * Third Prize in 11th Economic Academic Seminar and Paper Collection Competition in Hubei Province **2019**
- * Chinese **Patent** ZL 2015 2 0069644.6, "An Adjustable reading stand" **2015**
- * Outstanding Work Award of Innovative Quality Practice of Wuhan Middle and Primary Schools **2015**

Skills

- Languages:** Mandarin Chinese (Native), English (Fluent)
- Programming:** Python, R, MATLAB, L^AT_EX, UCINET, NetLogo, Stata