

## Wenjing Zhu

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Nanjing University  
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### Education

<b>Nanjing University</b> <i>Master of Management in Information Science</i>	<b>Nanjing, China</b> <i>Sep 2020-present</i>
<ul style="list-style-type: none"> <li><b>GPA:</b> 4.48 / 5.00 (5/84)</li> <li><b>Awards and Honours:</b> China National Scholarship (1.37%)   2022 Outstanding Student (1.26%)   2022 The First Prize Scholarship   2022 The First Prize Scholarship   2021 The Second Prize Scholarship   2020</li> </ul>	
<b>Anhui Agricultural University</b> <i>Bachelor of Economics in Finance</i>	<b>Hefei, China</b> <i>Sep 2015-Jul 2019</i>
<ul style="list-style-type: none"> <li><b>GPA:</b> 4.31 / 5.00</li> <li><b>Awards and Honours:</b> Individual Scholarship   2017 Spiritual Advanced Individual   2018</li> </ul>	

### Publications

#### Published

- Wenjing Zhu**, Bohong Ma & Lele Kang. (2022). Technology Convergence among Various Technical Fields: Improvement of Entropy Estimation in Patent Analysis. *Scientometrics*, 1-20.  
URL: <https://link.springer.com/article/10.1007/s11192-022-04557-6>
- Wenjing Zhu**, Bohong Ma & Lele Kang. (2021). The Trend of Technological Convergence Based on Patent Analysis. In *18<sup>th</sup> International Conference on Scientometrics & Informetrics* (2021)  
URL: <https://www.webofscience.com/wos/oldb/full-record/WOS:000709638700152>

#### Paper in Preparation

- Wenjing Zhu**, Bohong Ma & Lele Kang. How Leader's and Member's Experiences Influence Technological Innovation in Multi-cooperation Teams, to be submitted to *Research Policy*.

### Research Interests and Skills

- Research Interests:** Strategic Management, Knowledge Management, Management of Technological Innovation, Information System
- Including areas in:**  
The Role of Star Inventor in Team Innovation  
The Trend of Technology Convergence in Patent Analysis  
Disruptive Innovation and Incremental Innovation
- Techniques:** Econometrics models; Social Network; Eagle Network
- Programming Languages:** SQL; R; Python; EViews; SPSS; Stata

## Research Projects

### How Leader's and Member's Experiences Influence Technological Innovation in Multi-cooperation Teams

2021-Present

#### Project Brief:

In this research project, we attempt to explore whether the same inventor's experience influences team innovation output differently when they play different roles in collaborations. Specifically, we focused on two team positions: team leader and team member. We selected top inventors as samples from 9 pharmaceutical companies listed in the Fortune Global 500, ensuring one inventor has the probability of holding two positions in different patent innovation groups. From the data selected, we tried to analyze whether a leader's experience has a particular impact on team innovation and distinguish what makes it unique influence.

Dataset: PATSTAT 2020B

One paper is in preparation.

### Technology Convergence with Entropy Estimation in Patent Analysis

2020-Present

#### Project Brief:

This project consists of two parts. In the first part, we measured innovation trends in technology convergence using the popular Shannon entropy of the panel data and introduced the concepts of complementary and substitutability technology convergence. In the second part, we found Shannon entropy has some loopholes in measuring the degree of technology convergence innovation at the time series level, so we introduced Tsallis and Renyi entropies to improve it.

Dataset: PATSTAT 2020A

The output of the project includes: (1) ICSI 2021 paper, (2) SCIM paper (JCR Q2)

## Referees

### Dr. Lele Kang

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Associate Professor  
School of Information Management  
Nanjing University

### Dr. Jianghuai Zheng

zhengjh@nju.edu.cn

Professor  
Business School  
Nanjing University

## Service Activities

### International Conference on Machine Learning and Intelligent Systems

Reviewer

#### RSM China.

Hefei, China

Assistant Auditor, Audit Department

2019.02-2019.05

#### Fanchang Rural Commercial Bank Co., Ltd.

Wuhu, China

Customer Manager Assistant, Sales Department

2018.11-2019.02