

Wenjing Zhu

School of Information Management

Nanjing University

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Education

Nanjing University

Master of Management in Information Science

Nanjing, China

Sep 2020-present

- **GPA:** 4.48 / 5.00
- **Awards and Honours:** China National Scholarship | 2022
The First Prize Scholarship | 2022
The First Prize Scholarship | 2021
The Second Prize Scholarship | 2020

Anhui Agricultural University

Bachelor of Economics in Finance

Hefei, China

Sep 2015-Jul 2019

- **GPA:** 4.31 / 5.00
 - **Awards and Honours:** Individual Scholarship | 2017
Spiritual Advanced Individual | 2018
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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 *18th International Conference on Scientometrics & Informetrics* (2021) URL: <https://www.webofscience.com/wos/alldb/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*.
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Research Interests and Skills

- **Research Interests:** Strategy Management, Knowledge Management, Management of Technological Innovation
 - **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
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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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Professor
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Industrial Internship

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

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