

Interdisciplinary Researcher in Data Science & Economics

Jiacheng Zheng

Shandong University
Bioengineering Program

Outline

- 1 About Me
- 2 Educational Background
- 3 Research & Publications
- 4 Technical Skills
- 5 Mathematical & Physics Foundation
- 6 Professional Experience
- 7 Achievements
- 8 Leadership & Service
- 9 Professional Memberships
- 10 Future Goals
- 11 References

Who Am I?

- **Name:** Jiacheng Zheng (郑嘉诚)
- **Nationality:** Chinese
- **Current Program:** Bioengineering
- **University:** Shandong University
- **Expected Graduation:** 2026
- **Research Interests:** Data Science, Input-Output Analysis, GVCs, Large Language Models
- **Zhihu Notes:** **More than 1000000 words!**



Contact Information

✉ karcenzheng@yeah.net ☎ +86 19992761017

/github.com/Karcen 🌐 karcen.github.io/zhangjiacheng.github.io/

15:19



创作里程碑

2048

赞同量

2848

关注者量

164 万

创作字数

Zhihu

15:19 64%

< 创作里程碑

2048 赞同量 2848 关注者量 164 万 创作字数

今天是你加入知乎的第 3422 天，成为创作者的 2192 天

▲ 赞同量成就

500 个赞同! 1000 个赞同! 2000 个赞同!

Jiacheng Zheng (SDU) 5 / 23

Zhihu



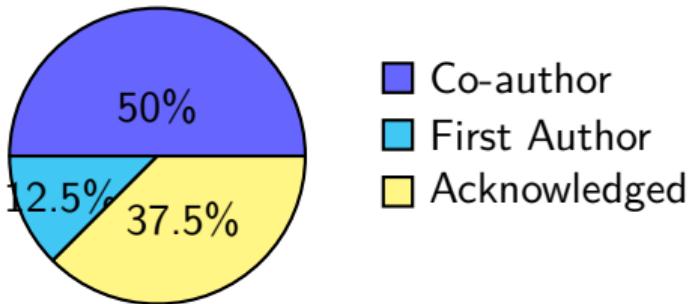
Educational Journey

Period	Institution & Program	GPA	Rank
2022–2026	Shandong University (SDU) Bioengineering	3.384/4.0	6/50 (Top 12%)
2019–2021	Dalian University of Technology (DUT) Chemical Engineering	3.52/4.0	17/230 (Top 7.4%)

Research Portfolio

Publication Statistics

- **8 Publications** (including under review and in process)
- **6 Research Papers** as co-author and in acknowledgement
- **1 Book Translation** (*Innovation and Regional Growth in Europe*, Chapter 3)
- **1 Book Contribution** (*Wind from the East: How does the Belt and Road Initiative connect continents to unleash economic potential?*, *Peter Lang*, In Process)
- **2 Conference Presentations**



Under Review

Chen, B., Hong, D., Ji, J., **Zheng, J.**, Dong, B., Zhou, J., Wang, K., Dai, J., Wang, X., Chen, W., Zheng, Q., Li, W., Han, S., Guo, Y., & Yang, Y. (2025). *InterMT: Multi-Turn Interleaved Preference Alignment with Human Feedback*. Submitted to *NeurIPS 2025*. <https://pku-intermt.github.io/>

Zheng, J., Khan, J., & Alam, Z. (Minor Revision). Agglomeration economies and regional inequalities: Theory and evidence from provincial China. *Journal of Chinese Economic and Business Studies*.

Xiao, X., Khan, J., & **Zheng, J.** (under review). Structural changes and sectoral linkages: Unveiling the ICT sector's role in China and India. *Telecommunication Policy*.

Khan, J., Li, Y., & **Zheng, J.** (under review). Sectoral growth dynamics, domestic linkages, and GVC movement in Pakistan: A single and multi-regional input-output modeling approach. *Review of Development Economics*.

Khan, J., Li, Y., & Girardin, E. (under review). The effectiveness of unilateral vs. multilateral carbon adjustment mechanisms under WTO and climate rules. *One Earth*. (Best Paper Awarded in 2024 Cambridge Sustainability Forum. Contributed to data analysis, model development, and visualization.)

Published

Khan, J., Li, Y., & Mahsud, Q. J. (2024). Linkages and structural changes in the Chinese financial sector, 1996–2018: A network and input–output approach. *Structural Change and Economic Dynamics*, 70, 33–44.(Acknowledged)

Books and Translations

Crespo, R., & Rodríguez-Pose, A. (2024). 欧盟的创新与区域增长 (*Innovation and Regional Growth in Europe*) (任建辉等翻译). 北京经济管理出版社.(Translated Chapter 3: "Geographical Accessibility and Human Capital Accumulation". This book explores the interplay between innovation and regional growth using social filter theory.)

Li, Y., & Khan, J. (in process). *Wind from the East: How does the Belt and Road Initiative Connect Continents to Unleash Economic Potential?* Peter Lang.(Acknowledged)

Key Research Areas

• Machine Learning & AI

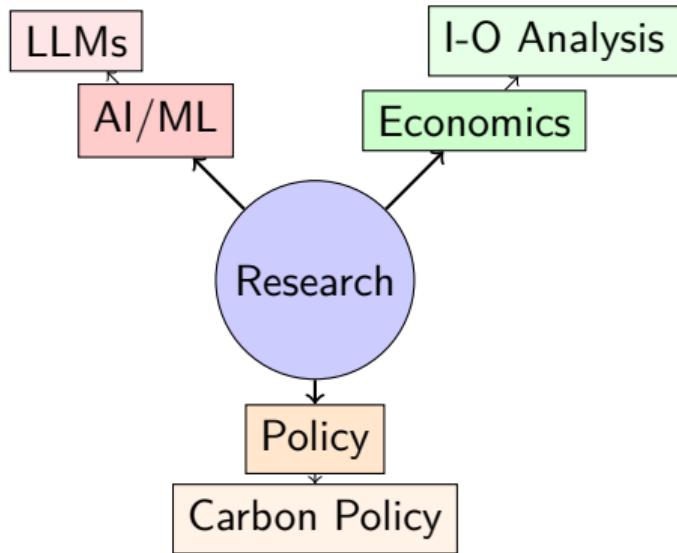
- Multi-Turn Interleaved Preference Alignment
- Large Language Models

• Economic Analysis

- Input-Output Analysis
- Global Value Chains (GVCs)
- Regional Economics

• Policy Analysis

- Carbon Adjustment Mechanisms
- Structural Economic Changes



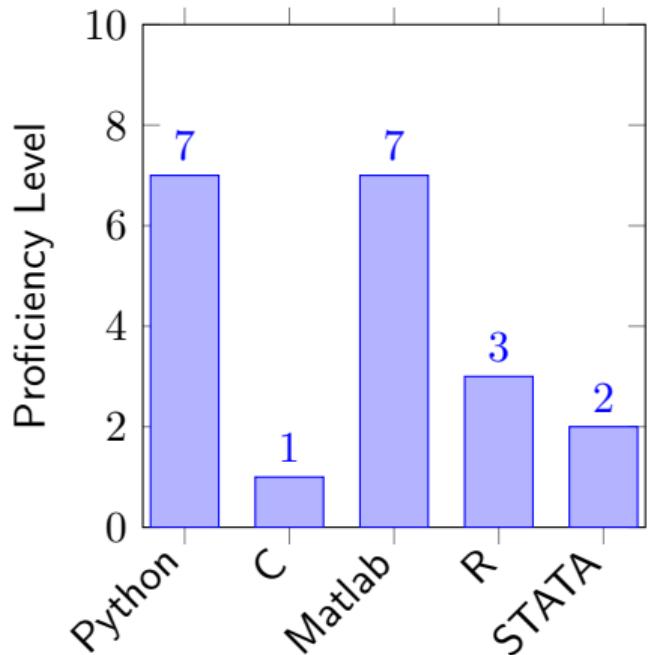
Technical Competencies

Programming Languages

- Python (Intermediate)
- C (Basic, got No.1 in examination but seldom use)
- Matlab (Intermediate)
- R (Basic)
- STATA (Basic)

Software Proficiency

- Office Suite (Advanced)
- IBM-SPSS (Intermediate)
- Adobe Suite (Intermediate)
- OriginLab (Intermediate)



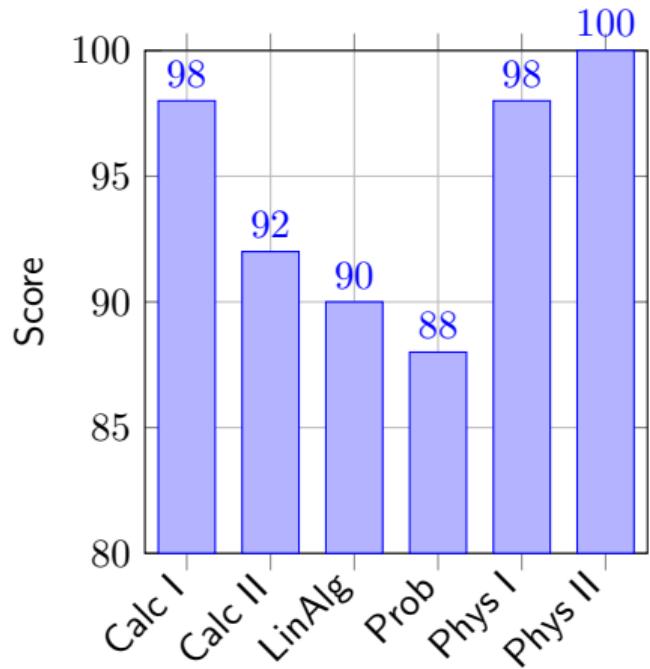
Mathematical & Physics Foundation

Key Coursework with High Performance

- **Calculus I (SDU):** 98/100
- **Calculus II (DUT):** 92/100
- **Linear Algebra (SDU):** 90/100
- **Probability & Statistics (DUT):** 88/100
- **College Physics I (DUT):** 98/100
- **College Physics II (DUT):** 100/100

Note

Demonstrates strong analytical and quantitative abilities. Full academic transcript available upon request via email
karcenzheng@yeah.net.



Internships & Research Experience

Period	Position & Institution	Focus Area
2025.02–05	Research Intern, HKUST	Data Science & Alignment
2024–present	Community Leader, Tian Village	Social Practice
2024.04–08	Research Assistant, UCL	IPCC Database Build
2023–present	Research Assistant, SDU	Data Science & IO & GVCs
Summer 2023	Management Trainee, Golden Education	Marketing

Awards & Recognition Overview

Major Scholarships

- IIOA Travel Grant (\$3,000) - 2025
- National Scholarship (8,000 RMB \approx \$1,111) - 2020
- National Encouragement Scholarship (5,000 RMB \approx \$694) - 2023

Competition Results

- MCM/ICM: Successful Participant (multiple years)
- APMCM: Third Prize (multiple years)
- 13th National College Students "E-I.C.E." Competition: **Second Prize** (2022)

Special Achievement

PwC Open Day: Selected through Golden Education Elite Enterprise Challenge Semi-Final Excellence Award – one of only **two** publicly funded participants from Weihai region.

Scholarship Statistics

Total Awards
7
Scholarships

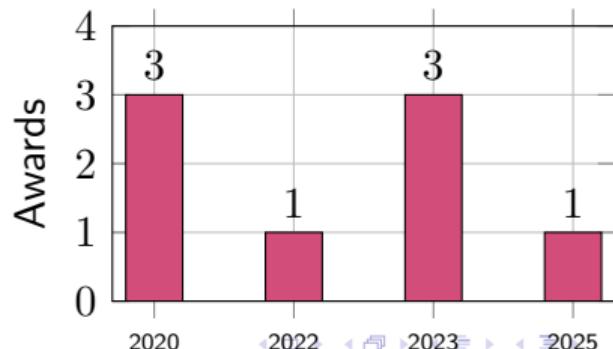
Total Value
\$5,131
(incl. cancelled)

Active Value
\$2,131
(excl. cancelled)

Awards by Year

Year	Awards
2025	1 award
2023	3 awards
2022	1 award
2020	3 awards

Distribution



Detailed Scholarship Records

Complete Scholarship List

Award	Year	Amount
IIOA Travel Grant*	2025	\$3,000
National Encouragement	2023	\$694
Tertiary Distinction	2023	\$139
PwC Open Day	2023	\$62
National Scholarship	2020	\$1,111
Academic Secondary	2020	\$69
Character & Civic Spirit	2020	\$56

Status Summary

Active Awards
6 scholarships
\$2,131 total

Important Note

***IIOA Travel Grant:** Initially awarded but later cancelled due to budget constraints. "What can I say... NB,666"

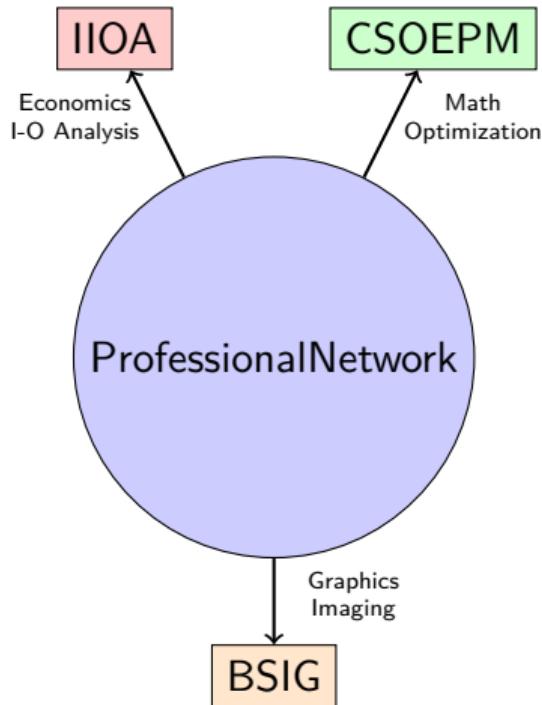
Leadership Experience

Period	Position	Institution
2024–2025	Vice President, 'Shanghai' Political Observation Club	SDU
2023–2024	Head of External Relations, 'Shanghai' Political Observation Club	SDU
2022–2023	Secretary, Department of Students Rights and Mental Health	SDU
2020–2021	Vice Minister, New Media Studio of Art Troupe	DUT
2019–2020	Vice-president, Department of Literature and Art	DUT

Professional Memberships

Academic & Professional Organizations

- **International Input-Output Association (IIOA)**
 - Global network of economists and researchers
 - Focus on input-output analysis and economic modeling
- **Chinese Society of Optimization, Overall Planning, and Economical Mathematics**
 - Mathematical economics and optimization research
 - Operations research and planning methodologies
- **Beijing Society of Image and Graphics**
 - Computer graphics and image processing
 - Visual data analysis and representation



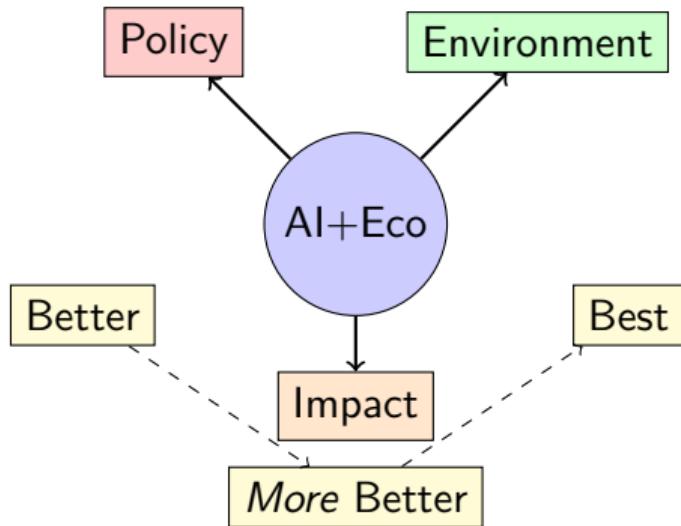
Looking Forward

Research Ambitions

- Advance research in AI alignment and safety
- Explore economic applications of machine learning
- Contribute to sustainable development through data science
- Bridge interdisciplinary gaps between AI and economics

Career Objectives

- Develop innovative solutions for real-world problems especially for climate change and poverty elimination
- Foster international academic collaboration



References

Academic References

Jamal Khan, Ph.D.

Postdoctoral Fellow, Institute of International Studies,
Shandong University
Ph.D. in Economics, Wuhan University
Email: jamalkhan_87@yahoo.com

Yuan Li, Ph.D.

Executive Dean, Institute of International Studies,
Shandong University
Distinguished Young Scholar, SDU
Former President, Chinese Economic Association
(UK/Europe)
Former Professor, University of Duisburg-Essen (W2)
Email: liyuan812k@163.com

Mark Partridge, Ph.D.

Swank Chair of Rural-Urban Policy (Emeritus), The
Ohio State University
Affiliated Researcher, GSSI (Italy) & Jinan University
(China)
Fellow and Past-President, Regional Science
Association International
Former Co-Editor, *Journal of Regional Science* (12
years); Editorial Board of 10+ journals
Published: *AER, Journal of Economic Geography*, etc.
Referee for: *AER, Regional Science, Regional Studies*
Email: partridge.27@osu.edu

Thank You!

Questions & Discussion

✉ karcenzheng@yeah.net

⌚ github.com/Karcen

🌐 karcen.github.io/zhengjiacheng.github.io/