Junyang Cai

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⌂ Personal Homepage

Education

Sep 2024 – Feb 2028	Technion - Israel Institute of Technology, *PhD*, *Operations Management*. Advisor: Noa Zychlinski
Sep 2021 – Apr 2024	Shanghai University, *Master*, *Management Science and Engineering*. Admission through recommendation (without entrance examination)
Sep 2017 – Jun 2021	Harbin University of Science and Technology, *Bachelor*, *Statistics*.

Research Interests

Operations Management and Operations Research in Healthcare.

Working Papers

'*' means the corresponding author.

1. **Cai J***, Zychlinski N. Expanding Naloxone Accessibility: A Lifesaver or a Risky Setback?, PRODUCTION AND OPERATIONS MANAGEMENT, Major Revision.
   - Winner of the 2025 Doctoral Student Forum of Antai College of Economics and Management, Shanghai Jiao Tong University, July 10, 2025
   - Oral presentation, 2025 ORSIS Annual Meeting, Tel-Aviv, May 6, 2025
   - Poster exhibition, Faculty Research Day, Technion, May 14, 2025

Published Papers

1. **Cai J***, Zychlinski N. When AI is not enough: Reducing diagnostic errors with radiologist oversight, SERVICE SCIENCE, forthcoming.

2. Zhou J, **Cai J***, Pantelous A, Li Z, Li M. A decision-making framework for supporting an equitable global vaccine distribution under humanitarian perspectives, EUROPEAN JOURNAL OF OPERATIONAL RESEARCH, forthcoming.
   - Winner of the 2024 Doctoral Student Forum of Antai College of Economics and Management, Shanghai Jiao Tong University, July 11, 2024

3. **Cai J**, Xu R, Zhou J*, Gu H. Dynamic-spread assessment and kink detection in the early mpox outbreak, APPLIED MATHEMATICAL MODELLING, 2025, 143:115996.

4. **Cai J**, Zhou J*. How many asymptomatic cases were unconfirmed in the US COVID-19 pandemic? The evidence from a serological survey, CHAOS, SOLITONS AND FRACTALS, 2022, 164:112630.

5. Li H, **Cai J***. Arithmetic operations and expected values of regular interval type-2 fuzzy variables, SYMMETRY-BASEL, 2021, 13(1):2196.

Selected Honors

2022	National scholarship for graduates.
2021	Chinese graduate mathematical contest in modeling – The second prize.

Membership

1 Student Membership, INFORMS.

Internship

Nov 2023 –
Mar 2024

Data Analyst, BAOZUN E-COMMERCE, Jing'an District, Shanghai, On-site.

- Developed Python scripts to batch process Excel files and analyze multi-dimensional sales, KOL live streaming, and logistics data for brands like DESCENTE, Crocs, and Calvin Klein across e-commerce platforms, computing key metrics, promotional period performance, logistics punctuality, and consumer behavior insights.

Skills

Python, Matlab, SPSS, Tableau, Latex, Markdown.