

# Jiawei Feng

[Google scholar homepage](#) | [fengjiawei126@gmail.com](mailto:fengjiawei126@gmail.com) | +86 155-1206-0936

## Education

---

- City University of Hong Kong** June 2025 – July 2026
- RA at Innovation Center of Sustainability, Energy, and Environment (Supervisor: [Xiaoling Zhang](#))
  - Research field: Urban sustainability, Energy system modeling, Sustainability Science
- Peking University** Feb 2025 – Dec 2025
- Jointly Trained Student at College of Engineering (Supervisor: [Wenjun Mei](#))
  - Research field: Dynamics and control for network systems
- National University of Defense Technology** Sept 2023 – July 2026
- Master of Engineering in Management Science & Engineering (Supervisor: [Xin Lu](#))
  - GPA: 86.89/100
  - Core courses (centesimal): Network Data Mining & Visualization (99), Multivariate Statistical Analysis (90), Deep Learning (93), Complex Systems Theory & Methods (87), Systems Science (87), Mathematical Physics (89)
- Northeastern University** Sept 2019 – June 2023
- Bachelor of Engineering in Electric Commerce
  - GPA: 89.37/100 (rank 1/57)
  - Core courses (centesimal): C Language Programming (99), Operations Research (95), Probability Theory & Mathematical Statistics (94), Advanced Mathematics (94), Data Communication & Computer Network (97)

## Publications

---

1. **J Feng**, M Cai, F Dai, S Liu, T Bu, X Zhang, H Zheng, X Lu, Data-driven supply chains mapping and disruption analysis: The case of automotive SoC enterprises in China, *Computers & Industrial Engineering*, 2025, 201, 110897, doi: [10.1016/j.cie.2025.110897](https://doi.org/10.1016/j.cie.2025.110897)
2. **J Feng**, B Dai, T Bu, X Zhang, C Ou, X Lu, A Study of Multi-scale Modeling and Disintegrating Strategies on Terrorist Organization Cooperation Network, *Journal of Systems Science and Mathematical Sciences*, 2024, doi: [10.12341/jssms240058](https://doi.org/10.12341/jssms240058)
3. X Lu, **J Feng**, S Tan, Perspectives on modelling epidemics with human mobility, *Europhysics Letters*, 2025, 149(4), 41002, doi: [10.1209/0295-5075/adad94](https://doi.org/10.1209/0295-5075/adad94) (Co-first author)
4. X Zhang, W Yang, **J Feng**, B Dai, T Bu, X Lu, GSpect: Spectral filtering for cross-scale graph classification, *IEEE Transactions on Network Science and Engineering*, 2024, 12(1), 547-558, doi: [10.1109/TNSE.2024.3513456](https://doi.org/10.1109/TNSE.2024.3513456)
5. X Zhang, P Yang, **J Feng**, K Wen, G Yan, Q Luo, W Lin, X Lu, Network Structure Governs Drosophila Brain Functionality, *Fundamental Research*, 2025, doi: [10.1016/j.fmre.2025.01.017](https://doi.org/10.1016/j.fmre.2025.01.017)
6. T Bu, K Yang, W Yang, **J Feng**, X Zhang, X Lu, DRAM-like Architecture with Asynchronous Refreshing for Continual Relation Extraction, *WWW'24: Proceedings of the ACM Web Conference 2024*, 2024, 2216-2225, doi: [10.1145/3589334.3645621](https://doi.org/10.1145/3589334.3645621)
7. X Lu, **J Feng**, P Holme, X Yuan, X Zhang, S Liu, S Tan, S Lai, Y Li, Z Du, H Yu, M Ajelli, Human mobility in Epidemic Modeling, 2025 (Co-first Author, Invited Paper, Preparing to submit to *Physics Report*)
8. **J Feng**, F Dai, X Yuan, Y Han, W Mei, L Huang, T Bu, X Lu, Spatiotemporal Evolution of China's EV Charge Stations, 2025 (Preparing to submit to *Nature Cities*)
9. M Cai, **J Feng**, Y He, X Lu, Research on Modeling and Risk Analysis of Complex Supply Chain Networks Based on Knowledge Graphs, *Tsinghua University Press (Pending)*, 2025 (Book)

## Research Interests

---

- **Network science:** complex network theory in urban science, contact/mobility network construction & analysis, statistical physics in real-world networks (e.g. brain networks, social networks and economic networks)
- **System dynamics:** cascading propagation, compartment models, agent-based models, deep-learning models for network dismantling, epidemic modeling

## Academic Achievements

---

- Reviewer for *BMC Medical Informatics and Decision Making*, 2025
- Reviewer for *Scientific Report*, 2025
- **J Feng**, X Lu, M Cai, X Yuan, A Method and System for Constructing an Entity Network Based on a Knowledge Graph, *China National Intellectual Property Administration (Pending)*, 2025 (**Patent**)
- X Lu, X Zhang, P Yang, **J Feng**, A Three JS-Based 3D Visualization Method and System for Brain Neural Networks, *China National Intellectual Property Administration*, 2025, CN119540428A (**Patent**)
- **J Feng**, V plus e-commerce platform (V1.0), *China National Copyright Administration*, 2021, 2021SR1109156 (**Computer software copyright**)
- **J Feng**, M Cai, T Bu, X Zhang, H Zheng, X Lu, Modeling Supply Chain Interaction and Disruption: Insights from Real-world Data and Complex Adaptive System, *CNetSci, Beijing*, 2024 (**Oral**)
- **J Feng**, M Cai, F Dai, S Liu, T Bu, X, Zhang, H Zheng, X Lu, Data-driven Supply Chains Mapping: The Case of Automotive SoC Enterprises in China, *The 5th Chinese Conference of Network Science, Zhoushan*, 2024 (**Best paper**)
- **J Feng**, B Dai, T Bu, X Zhang, C Ou, X Lu, A Study of Multi-scale Modeling and Disintegrating Strategies on Terrorist Organization Cooperation Network, *2023 Chinese High Education Research Annual Forum, Dalian*, 2023 (**Best paper**)

## Projects

---

- National Science Fund for Creative Research Groups (PI - [Xin Lu](#))** Jan 2025 – Dec 2029
- *Intelligent Decision-Making in Adversarial Complex Systems (Grant No. 72421002, participant)*
- National Science Fund for Distinguished Young Scholars (PI - [Xin Lu](#))** Jan 2021 – Dec 2025
- *Public Welfare Applications of Big Data: Data Models for Addressing Poverty, Disease, and Disasters (Grant No. 72025405, participant)*

## Internships & Social Practice Experience

---

- Technical Competitor Analysis Intern**, R&D, Volkswagen – Beijing, CN Nov 2022 – May 2023
- Data Support for technical route & automobile industry analysis. Prediction of future vehicle models and requirements from customers via machine learning methods. This experience significantly enhanced my skills in technical strategy evaluation and industry forecasting, enabling me to integrate cross-disciplinary insights for effective decision-making in specific industries. Combining the complex network theories and knowledge graph with the knowledge from this internship, I published the paper: [“Data-driven supply chains mapping and disruption analysis: The case of automotive SoC enterprises in China”](#) in the 1st year of my postgraduate.
- Data Analysis Intern**, Netease – Beijing, CN Apr 2022 – July 2022
- Responsible for analyzing, verifying, pre-processing multi-year, multi-area grade data for the 2022 Youdao reporting system of Chinese National College Entrance Examination. This experience not only improved my teamwork skills, but also significantly enhanced my ability to process and analyze real-world geographic data.
- Volunteer for Ceremony Support**, 24th Winter Olympic Games – Beijing, CN Nov 2021 – Mar 2022
- Ensuring seamless event operations while demonstrating exceptional teamwork, adaptability, and dedication in a high-pressure international setting. The exceptional performance led to me being awarded for the outstanding volunteer of 2022 Beijing Winter Olympic Games.
- Undergraduate Assistant Tutor**, Northeastern University – Qinhuangdao, CN June 2021 – June 2022
- Led a class of 30 undergraduates alongside two other assistant tutors, taking full responsibility for their daily lives, academic support, and mental well-being. I gained the respect of these younger students, and their trust in me

motivated me to give even more. This experience gave me a sense of fulfillment and helped me develop strong problem-solving skills.

## Honors & Awards

---

• National Scholarship ( <b>College percentile 1%, twice</b> )	Dec 2021, Dec 2022
• Model Merit Student ( <b>University percentile 1%, twice</b> )	Nov 2021, Nov 2022
• The 1st Outstanding Winner in National E-commerce Innovation, Creativity & Entrepreneurship Provincial Competition ( <b>leader, 10 teams per year</b> )	Aug 2021, July 2022
• Innovation & Entrepreneurship Scholarship ( <b>University percentile 5%, twice</b> )	June 2021, June 2022
• Postgraduate Freshmen Scholarship ( <b>College percentile 5%</b> )	Dec 2023
• Provincial Outstanding Graduate ( <b>University percentile 3%</b> )	May 2023
• China Telecom Scholarship ( <b>1500 people per year nationwide</b> )	Nov 2022
• Self-improvement Star ( <b>10 people per year university-wide, talented self-motivated ability</b> )	Nov 2022
• The 14th Provincial Outstanding Volunteer ( <b>Cumulative volunteer time for 500+ hours, 400 people per year province-wide</b> )	Aug 2022
• The 2nd prize in “Challenge Cup” National College Student Business Plan Provincial Competition ( <b>leader</b> )	July 2022
• Outstanding Volunteer in 24th Beijing Olympic Games ( <b>Team percentile 1%</b> )	Apr 2022
• Star of Innovation & Entrepreneurship ( <b>10 people per year university-wide, prominent entrepreneurial ability</b> )	Mar 2022
• Model Student Leader ( <b>University percentile 1%</b> )	Nov 2021
• The 3rd prize in Asia and Pacific Mathematical Contest in Modeling	Nov 2021
• Bronze Prize in China College Students “Internet+” Innovation and Entrepreneurship Provincial Competition ( <b>leader</b> )	Oct 2021
• National Encouragement Scholarship ( <b>College percentile 5%</b> )	Dec 2020

## Skills & Hobbies

---

**Languages:** Chinese (native), English (proficient)

**English language certificate:** IELTS 6.5 (L 6.5, R 7.5, W 6.5, S 6.0), CET 4/6

**Programming Languages:** Python, R, SQL, Javascript, JAVA

**Softwares:** R Studio, Pycharm, VSCode, ArcGIS, Neo4j, Latex, Mathtype, MGWR, Gephi, Zotero, MySQL, Anaconda, Adobe series, Microsoft Office series

**Technical blogger:** [11.5 k+ followers & 255 k+ reads](#) in CSDN (The largest Chinese IT website)

**Hobbies:** Cooking, Painting, Photography, Skiing, Badminton, Swimming, Traveling, electronic games (LoL, Zelda)