Wang Jiangzhou

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Education

- **Ph.D. in Statistics (Machine Learning and Bioinformatics)**, Northeast Normal University, 2014.09–2021.01
  Supervisor: Prof. Guo Jianhua
- **B.S. in Information and Computing Science**, Northeastern University, 2010.08–2014.06
- Exchange Student, Department of Information and Computing Science, Jilin University, 2011.08–2012.06

Work Experience

- **Assistant Professor**, Department of Statistics and Data Science, School of Mathematical Sciences, Shenzhen University, 2023.03–present
- **Postdoctoral Fellow**, Southern University of Science and Technology, 2021.03–2023.03
  Supervisors: Prof. Jing Bingyi and Prof. Shao Qiman

Research Interests

- Statistical modeling and inference for complex network data
- Multiple testing for large-scale dependent data
- AI-driven statistics: machine learning, deep learning, reinforcement learning, large language models, graph neural networks, multimodal models, etc.

Honors and Awards

- Shenzhen "Pengcheng Peacock Plan" Special Appointment Position C
- Presidential Outstanding Postdoctoral Fellow, Southern University of Science and Technology

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Teaching

Graduate Courses

- Modern Statistics

Undergraduate Courses

- Advanced Mathematics A (1)
- Advanced Mathematics A (2)
- Bayesian Data Analysis
- Multivariate Statistical Analysis

Publications

Accepted / Published Papers

1. Jing, B., Li, T., **Wang, J.**, & Wang, Y. Two-way node popularity model for directed and bipartite networks. *Journal of Machine Learning Research*. Accepted. (alphabetical order & corresponding author).
2. **Wang, J.**, Wu, M., Liu, Y., Liu, B., & Guo, J. (2025). Joint community detection in random-effects stochastic block models via the split-likelihood method. *Journal of Computational and Graphical Statistics*, 1–57.
3. **Wang, J.**, Liu, B., Guo, J., & Jing, B. (2025). Understanding asymptotic consistency and its unique advantages in large-sample statistical inference. *Journal of Multivariate Analysis*, 1–17.
4. Luo, P., **Wang, J.**, Wu, Y., & Zhang, W. (2025). Inference of treatment benefit rate and treatment harm rate with missing endpoint and covariate. *Statistics and Its Interface*, 1–27. (alphabetical order)
5. Li, C., **Wang, J.**, & Wang, P. (2024). Large-scale dependent multiple testing via higher-order hidden Markov models. *Journal of Biopharmaceutical Statistics*, 1–13. (alphabetical order)
6. **Wang, J.**, & Wang, P. (2024). Large-scale dependent multiple testing via hidden semi-Markov models. *Computational Statistics*, 39, 1093–1126.
7. **Wang, J.**, Wang, P., Cui, T., & Zhu, W. (2023). Covariate-modulated large-scale multiple testing under dependence. *Computational Statistics and Data Analysis*, 180, 107664.
8. **Wang, J.**, Zhang, J., Liu, B., Zhu, J., & Guo, J. (2023). Fast network community detection with profile-pseudo likelihood methods. *Journal of the American Statistical Association*, 118(542), 1359–1372.
9. **Wang, J.**, Liu, B., & Guo, J. (2021). Efficient split-likelihood-based method for community detection of large-scale networks. *Stat*, 10(1), e349.
10. **Wang, J.**, Guo, J., & Liu, B. (2021). A fast algorithm for integrative community detection of multi-layer networks. *Stat*, 10(1), e348.

Submitted Papers

1. Liu, B., **Wang, J.**, Liu, B., & Guo, J. Fast community detection of discrete-time temporal networks in mixture dynamic stochastic block models. *Journal of the American Statistical Association*. Under revision.
2. Liu, Y., **Wang, J.**, Liu, B., & Guo, J. Community detection in weighted networks via expectation profile-pseudo likelihood maximization. *submitted*. Under review.

Research Projects

Hosted Projects

1. Shenzhen New Introduction of High-Precision and Cutting-Edge Talents Research (Pengcheng Peacock C) Start-up Project, 2025.01–2027.12, 2 million RMB
2. National Natural Science Foundation of China Youth Project, 2023.01–2026.12, 300 k RMB
3. Guangdong Provincial Natural Science Foundation General Project, 2023.01–2026.12, 150 k RMB
4. Shenzhen University Young Faculty Research Start-up Project, 2023.03–2026.03, 200 k RMB
5. China Postdoctoral Science Foundation 15th Batch Special Funding (Mid-term), 2022.07–2023.03, 180 k RMB
6. China Postdoctoral Science Foundation 70th Batch General Funding Second Class, 2021.11–2023.03, 80 k RMB

Participated Projects

1. National Natural Science Foundation of China Key Project, 2017.01–2021.12, 2.36 million RMB — Structure-based Statistical Analysis of Network Data
2. National Natural Science Foundation of China Major Research Plan, 2019.01–2019.12, 200 k RMB — Strategic Discussion and Exchange of Big Data-Driven Management and Decision Research Expert Group

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Academic Service

- **Reviewer for international peer-reviewed journals**, including Journal of Machine Learning Research (JMLR), Annals of Applied Statistics (AOAS), Statistica Sinica, Journal of Computational and Graphical Statistics (JCGS), Electronic Journal of Statistics (EJS), Computational Statistics & Data Analysis (CSDA), Statistics and Its Interface (SII), and Journal of Systems Science & Complexity (JSSC).

Professional Activities

- Invited speaker at 3rd JCSDS, 2025.07.11–2025.07.14, Hangzhou, Zhejiang.
- Invited speaker at 2025 ICSA, 2025.06.27–2025.06.30, Zhuhai, BNU.
- Invited speaker at multiple international conferences, including ICSA.