

JING LIU

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Institute of Theoretical Physics, Chinese Academy of Sciences

No. 55 Zhong Guan Cun East Road, Haidian District, Beijing 100190, P. R. China

EDUCATION

School of Systems Science, Beijing Normal University *September 2018 - June 2023*
Ph.D., co-supervised by [Jiang Zhang](#) (Beijing Normal University) and [Pan Zhang](#) (Institute of Theoretical Physics, Chinese Academy of Sciences)

Department of Physics, Beijing Normal University *September 2014 - June 2018*
Bachelor of Science

WORKING EXPERIENCE

Institute of Theoretical Physics, Chinese Academy of Sciences *November 2023 - Present*
Postdoctoral Researcher

Zhejiang Lab *July 2023 - October 2023*
Senior Research Specialist

PUBLICATIONS

- Recurrent Dynamic Message Passing with Loops for Epidemics on Networks**
Fei Gao, **Jing Liu**, Yaqian Zhao
[arXiv:2311.05823](#)
- Tensor networks for unsupervised machine learning**
Jing Liu, Sujie Li, Jiang Zhang, Pan Zhang
[Physical Review E 107 \(1\), L012103](#)
- Solving nonequilibrium statistical mechanics by evolving autoregressive neural networks**
Ying Tang*, **Jing Liu***, Jiang Zhang, Pan Zhang (* contributed equally)
[arXiv:2208.08266](#)
- Human mobility in interest space and interactive random walk**
Fanqi Zeng, Li Gong, **Jing Liu**, Jiang Zhang, Qinghua Chen, Ruyue Xin
[Journal of Physics: Complexity 1 \(2\), 025004](#)
- Gumbel-Softmax Optimization: A Simple General Framework for Combinatorial Optimization Problems on Graphs**
Jing Liu, Fei Gao, Jiang Zhang
[COMPLEX NETWORKS 2019: Complex Networks and Their Applications VIII pp 879–890](#)
- A general deep learning framework for network reconstruction and dynamics learning**
Zhang Zhang, Yi Zhao, **Jing Liu**, Shuo Wang, Ruyi Tao, Ruyue Xin, Jiang Zhang
[Applied Network Science 4 \(110\), 1-17](#)
- Chinese Address Similarity Calculation Based on Auto Geological Level Tagging**
Jing Liu, Jianbin Wang, Changqing Zhang, Xiubo Yang, Jianbo Deng, Ruihe Zhu, Xiaojie Nan, Qinghua Chen
[ISNN 2019: Advances in Neural Networks – ISNN 2019 pp 431–438](#)

8. **Coevolution of agent's behavior and noise parameters in majority vote game on multilayer networks**

Jing Liu, Ying Fan, Jiang Zhang, Zengru Di

[New Journal of Physics 21 \(1\), 015007](#)