

JING LIU

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School of Systems Science, Beijing Normal University
No.19, Xijiekouwai St, Haidian District, Beijing, 100875, P.R.China

EDUCATION

School of Systems Science, Beijing Normal University *September 2018 - Present*
Ph.D. candidate
Supervisor: [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

RESEARCH INTERESTS

Unsupervised generative modeling and its applications in statistical physics problems
Tensor network for machine learning
Combinatorial optimization problems

TEACHING EXPERIENCE

Teaching assistant for *Basics and Applications of MATLAB* (undergraduate), and *Artificial Intelligence* (graduate)

PUBLICATIONS

- Solving nonequilibrium statistical mechanics by evolving autoregressive neural networks**
Ying Tang*, **Jing Liu***, Jiang Zhang, Pan Zhang (* contributed equally)
[arXiv:2208.08266 \[cond-mat.stat-mech\]](#) (under review)
- Tensor networks for unsupervised machine learning**
Jing Liu, Sujie Li, Jiang Zhang, Pan Zhang
[arXiv:2106.12974 \[cond-mat.stat-mech\]](#) (under review)
- 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

7. **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](#)