

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

Tensor networks for unsupervised machine learning

Jing Liu, Sujie Li, Jiang Zhang, Pan Zhang

[arXiv:2106.12974](#) [[cond-mat.stat-mech](#)]

Interactive Lévy Flight in Interest Space

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

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