

EDUCATION

- **Southwest University** Chongqing, China
Bachelor of Science in Computer Science; GPA: 3.9/4.0 Sep. 2020 – June. 2024
 - Coursework: Mathematical Analysis, Linear Algebra, Probability and Statistics, Operating System Theory, C++ Programming, Design and Analysis of Algorithms, Computer Networks, Data Structure, Discrete Mathematics, Computer Vision, Machine Learning, Data Mining.

EXPERIENCE

- **Dartmouth College, Department of Computer Science** Hanover, USA
Research Assistant, advised by Professor Yujun Yan June 2023 - Jan 2024
 - Working on developing principles for graph-based ML models that are both expressive and generalisable
- **iOPEN Laboratory, Northwestern Polytechnical University** Xi'an, China
Research Assistant, advised by Professor Chao Gao Mar 2021 - Feb 2023
 - Studied the sparseness problem in recommendation system and proposed a two-staged GFNCF model to help solve the problem. Conducted extensive experiments on five publicly available real-world datasets to verify the effectiveness of the model.
 - Used graph spatial-temporal self-attention network with contrastive regularization for passenger flow prediction.
 - Developed a novel optimized dynamic deep graph infomax method for dynamic community detection.
- **Data Science and Network Intelligence Laboratory, Southwest University** Chongqing, China
Research Assistant, advised by Professor Li Tao Nov 2020 - present
 - Explored multi-agent deep reinforcement learning techniques. Developed a reinforcement learning method to identify influential nodes in large-scale real networks while combining the strengths of both temporal heterogeneity and distributed local policy selection.
 - Proposed a new measure and summarized three main temporal features for node pairs in temporal networks and integrate them using weighted arithmetic mean.
 - Verified the effectiveness of the proposed temporal neighborhood change centrality and conducted experiments on various temporal networks.

PUBLICATIONS

- **1: L. He**, S. Wang, J. Wang, C. Gao and L. Tao. Integrating Global Features into Neural Collaborative Filtering. *Knowledge Science, Engineering and Management (KSEM)*, pp 325-336, 2022.
- **2: H. Liu, L. He**, F. Zhang, Z. Wang, and C. Gao. Dynamic community detection over evolving networks based on the optimized deep graph infomax, *Chaos 32*, 053119 (2022).
- **3: X. Qi, L. He**, J. Wang, Z. Du, Z. Luo and X. Li. A Multi-objective Evolutionary Algorithm Based on Multi-layer Network Reduction for Community Detection, *Knowledge Science, Engineering and Management (KSEM)*, pp 141-152, 2022.
- **4: S. Kong, L. He**, G. Zhang, L. Tao and Z. Zhang, Identifying Multiple Influential Nodes for Complex Networks Based on Multi-Agent Deep Reinforcement Learning, *Pacific Rim International Conference on Artificial Intelligence (PRICAI)*, pp 120-133, 2022.
- **5: L. Tao, S. Kong, L. He**, F. Zhang, X. Li, T. Jia and Z. Han, A Sequential-Path Tree-Based Centrality for Identifying Influential Spreaders In Temporal Networks. *Chaos, Solitons & Fractals*, Volume 165, Part 1, 2022.
- **6: Z. Wu, L. He**, L. Tao, Y. Wang, Z. Zhang, Temporal Neighborhood Change Centrality for Important Node Identification in Temporal Networks, *International Conference on Neural Information Processing*, pp 455-467, 2023.
- **7: J. Wu, L. He**, J. Tao and L. Tao, Temporal Link Prediction Based on Node Dynamics, *Chaos, Solitons & Fractals*, Volume 170, 113402, 2023.

SKILLS LIST

- **Languages:** English (IELTS:7.0/9.0), Chinese (native language)
- **Programming:** C/C++, C#, Python, Pytorch, TensorFlow, LATEX, Markdown

OTHERS

- **Awards:** Academic Science Award(1%), Merit Student of University (5%), Second-tier Scholarship (10%)