LIANG YANG

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EDUCATION

- **Ph.D. in Computer Sciences**, University of Chinese Academy of Sciences (UCAS) 2023 - 2016
  - Advisor: Xiaochun Cao
  - Thesis: Semi-supervised Community Detection with Pairwise Prior Information
- **M.S. in Computational Mathematics**, Nankai University (NKU) 2004 - 2007
  - Advisor: Yuefan Deng
- **B.S. in Computational Mathematics**, Nankai University (NKU) 2000 - 2004

WORK EXPERIENCE

- **Professor in Hebei University of Technology** 2021 - present
  - The vice president of the School of Artificial Intelligence
  - The deputy director of Hebei Province Key Laboratory of Big Data Calculation
  - The member of the academic committee of the university
- **Associate Professor in Hebei University of Technology** 2018 - 2021
  - School of Artificial Intelligence
- **Assistant Professor in Tianjin University of Commerce** 2010 - 2018
  - School of Information Engineering
- **R&D Engineer in Baidu** 2009 - 2010
- **R&D Engineer in Tecent** 2007 - 2009

RESEARCH INTERESTS

- Multimodal Representation and Learning
- Social and Web Multimedia Analysis
- Graph Machine Learning and Tabular Learning

PROJECTS

- Research on Modeling and Representation Learning for Graph Data in Complex Scenarios. National Natural Science Foundation of China (NSFC) (62376088), 2024-2027. **PI**
- The Research on Large-scale Network Partition by Incorporating Heterogeneous Topology and Semantic Information. National Natural Science Foundation of China (NSFC) (61972442), 2020-2023. **PI**
- Research on Overlapping Community Detection and Model Selection with Actively Selected Heterogeneous Supervised Information. National Natural Science Foundation of China (NSFC) (61503281), 2016-2018. **PI**
- Hebei Yanzhao Golden Platform Talent Gathering Programme Core Talent Project (Education Platform). Key positions in science and technology. (HJZD202509), 2025-2027. **PI**
- Research and Application of General Artificial Intelligence Based on Graph Machine Learning". Natural Science Foundation of Hebei Province (F2024202047), 2024-2026. **PI**

SELECTED PUBLICATIONS

- **Liang Yang**, Runjie Shi, Qiuliang Zhang, Bingxin Niu, Zhen Wang, Xiaochun Cao, Chuan Wang: Self-supervised Graph Neural Networks via Low-Rank Decomposition. *NeurIPS 2023*
- **Liang Yang**, Weixiao Hu, Jizhong Xu, Runjie Shi, Dongxiao He, Chuan Wang, Xiaochun Cao, Zhen Wang, Bingxin Niu, Yuanfang Guo: GAUSS: GrAph-customized Universal Self-Supervised Learning. *WWW 2024*

- **Liang Yang**, Lina Kang, Qiuliang Zhang, Mengzhe Li, Bingxin Niu, Dongxiao He, Zhen Wang, Chuan Wang, Xiaochun Cao, Yuanfang Guo: OPEN: Orthogonal Propagation with Ego-Network Modeling. *NeurIPS 2022*
- **Liang Yang**, Weihang Peng, Wenmiao Zhou, Bingxin Niu, Junhua Gu, Chuan Wang, Yuanfang Guo, Dongxiao He, Xiaochun Cao: Difference Residual Graph Neural Networks. *ACM Multimedia 2022*
- **Liang Yang**, Mengzhe Li, Liyang Liu, Bingxin Niu, Chuan Wang, Xiaochun Cao, Yuanfang Guo: Diverse Message Passing for Attribute with Heterophily. *NeurIPS 2021*
- **Liang Yang**, Jiayi Wang, Tingting Zhang, Dongxiao He, Chuan Wang, Yuanfang Guo, Xiaochun Cao, Bingxin Niu, Zhen Wang: Long Short-Term Graph Memory Against Class-imbalanced Over-smoothing. *ACM Multimedia 2023*
- **Liang Yang**, Yuexue Wang, Junhua Gu, Xiaochun Cao, Xiao Wang, Di Jin, Guiguang Ding, Jungong Han, Weixiong Zhang: Autonomous Semantic Community Detection via Adaptively Weighted Low-rank Approximation. *ACM Transactions on Multimedia Computing, Communications, and Applications (TOMM), 2019*
- Di Jin, Cuiying Huo, Chundong Liang, **Liang Yang ***: Heterogeneous Graph Neural Network via Attribute Completion. *WWW 2021* (Best Paper Runner-up)
- Jiaming Zhuo, Feiyang Qin, Can Cui, Kun Fu, Bingxin Niu, Mengzhu Wang, Yuanfang Guo, Chuan Wang, Zhen Wang, Xiaochun Cao, **Liang Yang***: Improving Graph Contrastive Learning via Adaptive Positive Sampling. *CVPR 2024*
- Jiaming Zhuo, Can Cui, Kun Fu, Bingxin Niu, Dongxiao He, Yuanfang Guo, Zhen Wang, Chuan Wang, Xiaochun Cao, **Liang Yang***: Propagation is All You Need: A New Framework for Representation Learning and Classifier Training on Graphs. *ACM Multimedia 2023*
- Jiaming Zhuo, Yintong Lu, Hui Ning, Kun Fu, Bingxin Niu, Dongxiao He, Chuan Wang, Yuanfang Guo, Zhen Wang, Xiaochun Cao, **Liang Yang***: Unified Graph Augmentations for Generalized Contrastive Learning on Graphs. *NeurIPS 2024*
- Dongxiao He, Chundong Liang, Cuiying Huo, Zhiyong Feng, Di Jin, **Liang Yang***, Weixiong Zhang: Analyzing Heterogeneous Networks With Missing Attributes by Unsupervised Contrastive Learning. *IEEE TNNLS 2024*

AWARDS

- Tianjin Science and Technology Progress Award 2022 (Third-class Prize)
- Tianjin Science and Technology Progress Award 2024 (Third-class Prize)
- The 30th Web Conference (CCF A Ranking) Best Paper Runner-up

SERVICES

- Area Chair: ICML 2024 - 2025; ICLR 2025
- SPC: AAAI 2021 - 2025; IJCAI 2022 - 2025
- Member of Specialised Committee on the Granular Computing and Knowledge Discovery, CAAI
- Member of Specialised Committee on the Foundations of Artificial Intelligence, CAAI