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# Zhaoliang Chen 陈赵亮

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## Research Interests

Graph Neural Network and its applications  
Differentiable/Explainable Neural Network  
Multi-view Learning  
Low-rank Optimization  
Matrix Completion  
Machine Learning



## Education

- 09/2019—06/2024    Ph.D. in Computer Science and Technology  
College of Computer and Data Science, Fuzhou University, China  
(Master-doctor combined program without a master degree)  
Supervisor: Prof. Wenzhong Guo and Prof. Shiping Wang
- 10/2022—10/2023    Visiting Student funded by China Scholarship Council (CSC)  
Faculty of Computer Science, University of Vienna, Austria.  
Supervisor: Prof. Claudia Plant
- 09/2015—06/2019    B.S. in Software Engineering  
College of Mathematics and Computer Sciences, Fuzhou University, China  
Supervisor: Prof. Fei Chen

## Professional Skills

**Programming/Software:** Python, MATLAB, LaTeX, etc.

**Deep Learning Toolkit:** Pytorch, Tensorflow, etc.

## Selected Publications

# Advisor as the first author    † Master students I advised

1. **Zhaoliang Chen**, Zhihao Wu, Zhenghong Lin, Shiping Wang, Claudia Plant and Wenzhong Guo. AGNN: Alternating Graph-Regularized Neural Networks to Alleviate Over-Smoothing. *IEEE Transactions on Neural Network and Learning Systems (TNNLS)* (**SCI Q1, CCF Rank B**).
2. **Zhaoliang Chen**, Zhihao Wu, Shiping Wang, and Wenzhong Guo. Dual Low-Rank Graph Autoencoder for Semantic and Topological Networks. *The Thirty-Seventh AAAI Conference on Artificial Intelligence (AAAI)*, 2023, 37 (4): 4191-4198 (**CCF Rank A, Acceptance rate = 19.6%**).
3. **Zhaoliang Chen**, Lele Fu, Jie Yao, Wenzhong Guo, Claudia Plant, Shiping Wang. Learnable Graph Convolutional Network and Feature Fusion for Multi-view Learning. *Information Fusion*, 2023, 95: 109-119 (**SCI Q1, CCF Rank B, ESI Highly Cited Paper**).

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4. Shiping Wang<sup>#</sup>, **Zhaoliang Chen<sup>#</sup>**, Shide Du, Zhouchen Lin. Learning Deep Sparse Regularizers with Applications to Multi-View Clustering and Semi-Supervised Classification. *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, 2022, 44 (9): 5042—5055 (**SCI Q1, CCF Rank A**).
  5. **Zhaoliang Chen**, Lele Fu, Shunxin Xiao, Shiping Wang, Claudia Plant, Wenzhong Guo. Multi-Channel Graph Convolutional Network with Differentiable Node Selection. *ACM Transactions on Knowledge Discovery from Data (TKDD)*, 2024, 18(1): 1-21 (**CCF Rank B, SCI Q2**).
  6. **Zhaoliang Chen**, Jie Yao, Guobao Xiao, Shiping Wang. Efficient and Differentiable Low-rank Matrix Completion with Back Propagation. *IEEE Transactions on Multimedia (TMM)*, 2023, 25: 228-242 (**SCI Q1, CCF Rank B**).
  7. **Zhaoliang Chen**, Shiping Wang. A Review on Matrix Completion for Recommender Systems. *Knowledge and Information Systems (KAIS)*, 2022, 64 (1): 1-34 (**CCF Rank B, SCI Q3**).
  8. **Zhaoliang Chen**, Wei Zhao, Shiping Wang. Kernel Meets Recommender Systems: A Multi-kernel Interpolation for Matrix Completion. *Expert Systems with Applications*, 2021, 168: 114436 (**SCI Q1**).
  9. Luying Zhong<sup>†</sup>, **Zhaoliang Chen**, Zhihao Wu, Shide Du, Zheyi Chen, and Shiping Wang. Learnable Graph Convolutional Network with Semi-supervised Graph Information Bottleneck. *IEEE Transactions on Neural Network and Learning Systems (TNNLS)*, 2023. (**SCI Q1, CCF Rank B**)
  10. Yuhong Chen<sup>†</sup>, Zhihao Wu<sup>†</sup>, **Zhaoliang Chen**, Mianxiong Dong, Shiping Wang. Joint Learning of Feature and Topology for Multi-view Graph Convolutional Network, *Neural Networks*, 2023, 168: 161-170. (**SCI Q1, CCF Rank B**).
  11. Shunxin Xiao, Shide Du, **Zhaoliang Chen**, Yunhe Zhang, Shiping Wang. Dual Fusion-Propagation Graph Neural Network for Multi-View Clustering. *IEEE Transactions on Multimedia (TMM)*, 2023 (**SCI Q1, CCF Rank B**).
  12. Zhihao Wu<sup>†</sup>, Xincan Lin, Zhenghong Lin, **Zhaoliang Chen**, Shiping Wang. Interpretable Graph Convolutional Network for Multi-view Semi-supervised Learning. *IEEE Transactions on Multimedia (TMM)*, 2023 (**SCI Q1, CCF Rank B**).
  13. Luying Zhong<sup>†</sup>, Jinbin Yang, **Zhaoliang Chen**, and Shiping Wang. Contrastive Graph Convolutional Networks with Generative Adjacency Matrix. *IEEE Transactions on Signal Processing (TSP)*, 2023 (**SCI Q1**).
  14. Lele Fu, **Zhaoliang Chen**, Yongyong Chen, and Shiping Wang. Unified Low-Rank Tensor Learning and Spectral Embedding for Multi-View Subspace Clustering. *IEEE Transactions on Multimedia (TMM)*, 2022 (**SCI Q1, CCF Rank B**).
  15. Zexi Chen, Pengfei Lin, **Zhaoliang Chen**, Dongyi Ye, and Shiping Wang. Diversity Embedding Deep Matrix Factorization for Multi-view Clustering. *Information Sciences*, 2022, 610: 114-125 (**SCI Q1, CCF Rank B**).

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16. Shiping Wang<sup>#</sup>, **Zhaoliang Chen<sup>#</sup>**, William Zhu, Fei-Yue Wang. Deep Random Walk of Unitary Invariance for Large-scale Data Representation. *Information Sciences*, 2021, 554: 1-14 (**SCI Q1, CCF Rank B**).
  17. Lele Fu, **Zhaoliang Chen**, S Huang, S Huang, Shiping Wang. Multi-View Learning via Low-Rank Tensor Optimization. *IEEE International Conference on Multimedia and Expo (ICME)*, 2021, 1-6 (**CCF Rank B, Acceptance rate = 30%**).
  18. Shide Du, Zhanghui Liu, **Zhaoliang Chen**, Wenyuan Yang, Shiping Wang. Differentiable Bi-sparse Multi-view Co-clustering. *IEEE Transactions on Signal Processing (TSP)*, 2021, 69: 4623 – 4636 (**SCI Q1**).

### **Preprints**

1. **Zhaoliang Chen**, Zhihao Wu, Claudia Plant, Shiping Wang, Wenzhong Guo. Attributed Multi-order Graph Convolutional Network for Heterogeneous Graphs. *Neural Networks*. (**Major Revision, SCI Q1, CCF Rank B**)
2. **Zhaoliang Chen**, Zhihao Wu, Ylli Sadikaj, Claudia Plant, Hong-Ning Dai, Shiping Wang, Wenzhong Guo. ADEdgeDrop: Adversarial Edge Dropping for Robust Graph Neural Networks. *Submitted to AAAI* (CCF Rank A).

### **Academic Services**

- **Reviewer:** IEEE TSMC, Artificial Intelligence Review, Information Sciences, Journal of Supercomputing.

### **Awards & Honors**

- 2022: China National Scholarship for Postgraduates  
China Scholarship Council Funding
- 2021: Special Prize of Outstanding Freshman Scholarship for Ph.D. Student;  
Second Prize of Excellent Academic Scholarship of Master Student;
- 2019: Special Prize of Outstanding Freshman Scholarship for Master Student;  
Excellent Undergraduate Thesis for Undergraduates of Fuzhou University;  
Third Prize of “China Software Cup” Software Design Competition for College Student.  
First Prize Scholarship of Fuzhou University