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Education

- 2023 – 2026  **M.Sc. Computer Science, Jilin University**
Advisor: Prof. Xin Wang.
- 2019 – 2023  **B.Sc. Computer Science, Ningbo University**
Co-Advisor: Prof. Chengbin Peng, Prof Pietro Liò (University of Cambridge).

Research Publications

Journal Articles

- 1 X. Shen, P. Lio, L. Yang, R. Yuan, Y. Zhang, and C. Peng, “Graph rewiring and preprocessing for graph neural networks based on effective resistance,” *IEEE Transactions on Knowledge and Data Engineering*, 2024.
- 2 L. Yang, P. Liò, X. Shen, Y. Zhang, and C. Peng, “Adaptive multi-scale graph neural architecture search framework,” *Neurocomputing*, vol. 599, p. 128 094, 2024.
- 3 Y. Zhang, X. Shen, Y. Xie, K.-C. Wong, W. Xie, and C. Peng, “Directed link prediction using gnn with local and global feature fusion,” *IEEE Transactions on Network Science and Engineering*, 2024.






Conference Proceedings (* indicates equal contribution)

- 1 Y. Wang*, Y. Liu*, X. Shen*, *et al.*, “Unifying unsupervised graph-level anomaly detection and out-of-distribution detection: A benchmark,” in *The Thirteen International Conference on Learning Representations (ICLR2025)*, 2025.
- 2 X. Shen*, Y. Wang*, K. Zhou, S. Pan, and X. Wang, “Optimizing ood detection in molecular graphs: A novel approach with diffusion models,” in *Proceedings of the 30th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD2024)*, 2024, pp. 2640–2650.

Preprint Articles

- 1 X. Shen, Y. Liu, Y. Wang, *et al.*, *Raising the bar in graph ood generalization: Invariant learning beyond explicit environment modeling*, 2025.

Awards

- 2024  **Graduate Merit Scholarship (First Class)**, Jilin University.
  **Master Academic Scholarship**, Jilin University.
- 2023  **Master Academic Scholarship**, Jilin University.
- 2022  **Zhejiang Provincial Government Scholarship**, Zhejiang Province.
- 2020  **Zhejiang Provincial Government Scholarship**, Zhejiang Province.