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Research Areas

Graph mining and learning, Prompt learning, Foundation model.

Education

- 2019.09 – 2024.06 **Ph.D.**
School of Computer Science and Technology, University of Science and Technology of China.
- 2015.09 – 2019.07 **B.E.**
School of the Gifted Young, University of Science and Technology of China.

Experiences

- 2024.09 – 2025.12 **Research Scientist.**
School of Computing and Information System, Singapore Management University.
- 2024.05 – 2024.08 **Visiting Research Student.**
Center for Spatial Information Science, The University of Tokyo.
- 2022.06 – 2024.03 **Visiting Research Student.**
School of Computing and Information System, Singapore Management University.

Research Papers

* denotes co-first authors with equal contribution.

(Co-)First Author Publications

- 1 **X. Yu**, G. Zechuan, Z. Chang, Y. Fang, and X. Zhang, “Samgpt: Text-free graph foundation model for multi-domain pre-training and cross-domain adaptation,” in *the ACM Web Conference (WWW)*, 2025.
- 2 **X. Yu***, Z. Liu*, Y. Fang, and X. Zhang, “Node-time conditional prompt learning in dynamic graphs,” in *the International Conference on Learning Representations (ICLR)*, 2025.
- 3 **X. Yu***, J. Zhang*, Y. Fang, and R. Jiang, “Non-homophilic graph pre-training and prompt learning,” in *the ACM SIGKDD Conference on Knowledge Discovery and Data Mining (SIGKDD)*, 2025.
- 4 **X. Yu**, Y. Fang, Z. Liu, and X. Zhang, “Hgprompt: Bridging homogeneous and heterogeneous graphs for few-shot prompt learning,” in *the AAAI Conference on Artificial Intelligence (AAAI)*, 2024, pp. 16 578–16 586.
- 5 **X. Yu**, Z. Liu, Y. Fang, Z. Liu, S. Chen, and X. Zhang, “Generalized graph prompt: Toward a unification of pre-training and downstream tasks on graphs,” in *IEEE Transactions on Knowledge and Data Engineering (TKDE)*, 2024.
- 6 **X. Yu**, C. Zhou, Y. Fang, and X. Zhang, “Multigprompt for multi-task pre-training and prompting on graphs,” in *the ACM Web Conference (WWW)*, 2024, pp. 515–526.
- 7 Z. Liu*, **X. Yu***, Y. Fang, and X. Zhang, “Graphprompt: Unifying pre-training and downstream tasks for graph neural networks,” in *the ACM Web Conference (WWW)*, 2023, pp. 417–428.
- 8 **X. Yu***, Z. Liu*, Y. Fang, and X. Zhang, “Learning to count isomorphisms with graph neural networks,” in *the AAAI Conference on Artificial Intelligence (AAAI)*, 2023, pp. 4845–4853.

(Co-)First Author Preprint Papers

- 1 X. Yu, C. Zhou, Z. Kuai, X. Zhang, and Y. Fang, *Gcot: Chain-of-thought prompt learning for graphs*, 2025.
- 2 X. Yu, C. Zhou, Y. Fang, and X. Zhang, *Text-free multi-domain graph pre-training: Toward graph foundation models*, 2024.
- 3 X. Yu*, Y. Fang*, Z. Liu, Y. Wu, Z. Wen, J. Bo, X. Zhang, and S. C. H. Hoi, *A survey of few-shot learning on graphs: From meta-learning to pre-training and prompt learning*, 2024.

Co-Author Publications

- 1 P. Xia, X. Yu, M. Hu, L. Ju, Z. Wang, P. Duan, and Z. Ge, "Hgclip: Exploring vision-language models with graph representations for hierarchical understanding," in *the International Conference on Computational Linguistics (COLING)*, 2025.
- 2 W. Zhang, X. Deng, B. Jia, X. Yu, Y. Chen, J. Ma, Q. Ding, and X. Zhang, "Pixel adapter: A graph-based post-processing approach for scene text image super-resolution," in *the ACM International Conference on Multimedia (MM)*, pp. 2168–2179, 2023.

Academic Services

Conference Program Committee Member

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| 2025 | ICLR, ICML, SIGKDD, WWW, AAAI |
| 2024 | ICLR, ICML, NeurIPS, WWW, CIKM |
| 2023 | NeurIPS |

Journal Reviewer

Information Fusion
Frontiers of Computer Science