Xiran Song

Curriculum Vitae

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Education

2025-present Doctor of Engineering, Computer Science, Université de Montréal.

2024–2025 **Doctor of Engineering, Computer Science**, Washington University in Saint Louis.

(transfered)

2021–2024 Master of Engineering, Computer Science & Technology, Huazhong University of Science and Technology.

Machine Learning, Graph Representation Learning, Large Language Models

2017–2021 **Bachelor of Engineering, Computer Science & Technology**, *Huazhong University of Science and Technology*.

Publications

Preprint Papers

Zihan Luo, Xiran Song, Hong Huang, Jianxun Lian, Chenhao Zhang, Jinqi Jiang, and Xing Xie. Graphinstruct: Empowering large language models with graph understanding and reasoning capability. In arXiv, 2024.

Conference Proceedings

- 2023 **Xiran Song**, Jianxun Lian, Hong Huang, Zihan Luo, Wei Zhou, Xue Lin, Mingqi Wu, Chaozhuo Li, Xing Xie, and Hai Jin. xGCN: An extreme graph convolutional network for large-scale social link prediction. In *Proceedings of the ACM Web Conference 2023*, page 349–359, 2023.
- 2023 Zihan Luo, Hong Huang, Jianxun Lian, **Xiran Song**, Xing Xie, and Hai Jin. Cross-links matter for link prediction: Rethinking the debiased gnn from a data perspective. In *Proceedings of the 37th Conference on Neural Information Processing Systems*, 2023.
- 2022 **Xiran Song**, Jianxun Lian, Hong Huang, Mingqi Wu, Hai Jin, and Xing Xie. Friend recommendations with self-rescaling graph neural networks. In *Proceedings of the 28th ACM SIGKDD Conference on Knowledge Discovery and Data Mining*, page 3909–3919, 2022.

Journal Articles

2023 Wei Zhou, Hong Huang, Ruize Shi, **Xiran Song**, Xue Lin, Xiao Wang, and Hai Jin. Temporal heterogeneous information network embedding via semantic evolution. *IEEE Transactions on Knowledge and Data Engineering*, pages 1–12, 2023.

Open-source Project

2023 XGCN: a light-weight Python library for large-scale graph neural network embedding.

Developing XGCN: a light-weight library for large-scale graph neural network embedding, aiming at helping researchers to quickly embed million-scale graphs in a single-machine environment. GitHub: https://github.com/CGCL-codes/XGCN_library

Research Experience

Huazhong University of Science and Technology

2023.9 - Large Language Models for Graph Understanding.

present Evaluating and improving graph understanding abilities of large language models.

Advisor: Dr. Hong Huang, Associate Professor, School of Computer Science & Technology

2021.9 - Large-scale Graph Neural Network Embedding.

2023.9 Developing graph neural network models and training strategies that have better performance on real-world

large-scale graphs.

Advisor: Dr. Hong Huang, Associate Professor, School of Computer Science & Technology

Microsoft Research Aisa

2021.2 - Graph Neural Networks for Friend Recommendation.

2021.6 Applying graph neural networks to friend recommendation and developing models to improve the Xbox-

Gaming's friend recommendation services.

Advisor: Dr. Jianxun Lian, Senior Researcher, Social Computing Group

Awards

2022 National Scholarship of Huazhong University of Science and Technology.

2022 Merit Student of Huazhong University of Science and Technology.

Service

2025 Reviewer of KDD 2025 research track