Limei Wang

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August 2015 - July 2019

Education

- Texas A&M University August 2019 May 2024 (Expected) Ph.D. in Computer Engineering, Department of Computer Science and Engineering Advisor: Prof. Shuiwang Ji
- University of Science and Technology of China B.E. in Automation, School of Information Science and Technology

Experience

- Meta, Sunnyvale, CA, USA
 February 2024 present
 Research Scientist, work on graph neural networks for recommendation system
- Meta, Sunnyvale, CA, USA
 May 2023 August 2023
 Research intern, work on subgraph sampling methods for large-scale graphs
 Mentor: Dr. Si Zhang, Peers: Hanqing Zeng, Hao Wu, Zhigang Hua, Kaveh Hassani

Research Interests

- Machine Learning, Deep Learning
- Graph/Geometric ML for Molecules [Related papers: SphereNet, ComENet, ProNet, LEFTNet]
- Scalable Methods for Large-Scale Graphs [Related papers: GraphFM, S3]
- Generative Models [Related papers: LatentDiff]

Publications[Google Scholar]

* indicates equal contribution. + indicates equal senior contribution.

[LoG 2023]	A Latent Diffusion Model for Protein Structure Generation Cong Fu [*] , Keqiang Yan [*] , Limei Wang, Wing Yee Au, Michael McThrow, Tao Komikado, Koji Maruhashi, Kanji Uchino, Xiaoning Qian, Shuiwang Ji Learning on Graphs Conference (LoG), 2023
[NeurIPS 2023]	A New Perspective on Building Efficient and Expressive 3D Equivariant Graph Neural Networks Weitao Du*, Yuanqi Du*, Limei Wang*, Dieqiao Feng, Guifeng Wang, Shuiwang Ji, Carla P Gomes, and Zhi-Ming Ma Conference on Neural Information Processing Systems (NeurIPS), 2023
[ICLR 2023]	Learning Hierarchical Protein Representations via Complete 3D Graph Networks Limei Wang [*] , Hanran Liu [*] , Yi Liu ^{*,†} , Jerry Kurtin, and Shuiwang Ji [†] International Conference on Learning Representations (ICLR), 2023
[NeurIPS 2022]	ComENet: Towards Complete and Efficient Message Passing for 3D Molecular Graphs Limei Wang *, Yi Liu*, Yuchao Lin, Haoran Liu, and Shuiwang Ji Conference on Neural Information Processing Systems (NeurIPS), 2022
[NeurIPS 2022 Track Datasets and Benchmarks]	GOOD: A Graph Out-of-Distribution Benchmark Shurui Gui*, Xiner Li*, Limei Wang , and Shuiwang Ji Conference on Neural Information Processing Systems Datasets and Benchmarks Track, 2022

[KDD 2022 Tutorial]	Frontiers of Graph Neural Networks with DIG Shuiwang Ji, Meng Liu, Yi Liu, Youzhi Luo, Limei Wang , Yaochen Xie, Zhao Xu, Haiyang Yu ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD), 2022
[ICML 2022]	GraphFM: Improving Large-Scale GNN Training via Feature Momentum Haiyang Yu*, Limei Wang *, Bokun Wang*, Meng Liu, Tianbao Yang, and Shuiwang Ji International Conference on Machine Learning (ICML), 2022
[Bioinformatics 2022]	Advanced Graph and Sequence Neural Networks for Molecular Property Prediction and Drug Discovery Zhengyang Wang*, Meng Liu*, Youzhi Luo*, Zhao Xu*, Yaochen Xie*, Limei Wang*, Lei Cai*, Qi Qi, Zhuoning Yuan, Tianbao Yang, and Shuiwang Ji Bioinformatics, 2022
[ICLR 2022]	Spherical Message Passing for 3D Molecular Graphs Yi Liu*, Limei Wang *, Meng Liu, Yuchao Lin, Xuan Zhang, Bora Oztekin, and Shuiwang Ji International Conference on Learning Representations (ICLR), 2022
[JMLR 2021]	DIG: A Turnkey Library for Diving into Graph Deep Learning Research Meng Liu [*] , Youzhi Luo [*] , Limei Wang [*] , Yaochen Xie [*] , Hao Yuan [*] , Shurui Gui [*] , Haiyang Yu [*] , Zhao Xu, Jingtun Zhang, Yi Liu, Keqiang Yan, Haoran Liu, Cong Fu, Bora Oztekin, Xuan Zhang, and Shuiwang Ji Journal of Machine Learning Research (JMLR), 2021
[NeurIPS-W 2021]	Fast Quantum Property Prediction via Deeper 2D and 3D Graph Networks Meng Liu [*] , Cong Fu [*] , Xuan Zhang, Limei Wang , Yaochen Xie, Hao Yuan, Youzhi Luo, Zhao Xu, Shenglong Xu, and Shuiwang Ji AI for Science Workshop at NeurIPS, 2021
[Chemistry- Methods 2021]	Development of Xanthene-Based Fluorescent Dyes: Machine Learning-Assisted Prediction vs. TD-DFT Prediction and Experimental Validation Yingying Wang*, Lei Cai*, Wei Chen, Difei Wang, Shi Xu, Limei Wang, Martin A. Kononov, Shuiwang Ji, and Ming Xian Chemistry-Methods, 2021

Preprints

* indicates equal contribution.

[Arxiv]	Artificial Intelligence for Science in Quantum, Atomistic, and Continuum Systems
	Xuan Zhang*, Limei Wang*, Jacob Helwig*, Youzhi Luo*, Cong Fu*, Yaochen Xie*, Meng
	Liu, Yuchao Lin, Zhao Xu, Keqiang Yan, Keir Adams, Maurice Weiler, Xiner Li, Tianfan Fu,
	Yucheng Wang, Haiyang Yu, YuQing Xie, Xiang Fu, Alex Strasser, Shenglong Xu, Yi Liu,
	Yuanqi Du, Alexandra Saxton, Hongyi Ling, Hannah Lawrence, Hannes Stärk, Shurui Gui,
	Carl Edwards, Nicholas Gao, Adriana Ladera, Tailin Wu, Elyssa F. Hofgard, Aria Mansouri
	Tehrani, Rui Wang, Ameya Daigavane, Montgomery Bohde, Jerry Kurtin, Qian Huang, Tuong
	Phung, Minkai Xu, Chaitanya K. Joshi, Simon V. Mathis, Kamyar Azizzadenesheli, Ada Fang,
	Alán Aspuru-Guzik, Erik Bekkers, Michael Bronstein, Marinka Zitnik, Anima Anandkumar,
	Stefano Ermon, Pietro Liò, Rose Yu, Stephan Günnemann, Jure Leskovec, Heng Ji, Jimeng
	Sun, Regina Barzilay, Tommi Jaakkola, Connor W. Coley, Xiaoning Qian, Xiaofeng Qian, Tess
	Smidt, Shuiwang Ji
[OpenReview]	Staleness-based Subgraph Sampling for Large-Scale GNNs Training

Limei Wang, Si Zhang, Hanqing Zeng, Hao Wu, Zhigang Hua, Kaveh Hassani, Andrey Malevich, Bo Long, Shuiwang Ji

Professional Services

Program Committee Member & Reviewer

International Conference on Machine Learning (ICML)	22, 2023, 2024
• Conference on Neural Information Processing Systems (NeurIPS)	2022, 2023
NeurIPS Datasets and Benchmarks Track	2022, 2023
AI4Science Workshop @ NeurIPS	2022, 2023
International Conference on Learning Representations (ICLR)	2023, 2024
• Learning on Graphs Conference (LoG)	2022, 2023
• ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)	2022

Scholarships, Awards, & Honors

EECS Rising Star, Georgia Tech	2023
• NeurIPS Travel Award 2	022, 2023
• Travel Grant, CSE@TAMU 2021, 2	022, 2023
Third place on the Open Catalyst Challenge	2021
• Runner-Up Award of KDD Cup on Open Graph Benchmark Large-Scale Challenge (OGB-LSC) 2021
Outstanding Graduates, USTC	2019