

CHENXIAO YANG

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EDUCATION

Toyota Technological Institute at Chicago <i>PhD in Computer Science, Advisor: Prof. Zhiyuan Li</i>	September 2024 - Now
Shanghai Jiao Tong University <i>M.S. in Computer Science, Advisor: Prof. Junchi Yan</i>	September 2021 - March 2024
Shanghai Jiao Tong University <i>B.S. in Computer Science, GPA: 3.8/4.0</i>	September 2017 - June 2021

PUBLICATIONS

Chenxiao Yang, Nathan Srebro, David McAllester, Zhiyuan Li.

PENCIL: Long Thoughts with Short Memory.

In International Conference on Machine Learning (ICML), 2025.

Qitian Wu, Chenxiao Yang, Kaipeng Zeng, Michael Bronstein.

Supercharging Graph Transformers with Advection Diffusion.

In International Conference on Machine Learning (ICML), 2025.

Chenxiao Yang, Zhiyuan Li, David Wipf.

Chain-of-Thought Provably Enables Learning the (Otherwise) Unlearnable.

In International Conference on Learning Representations (ICLR), 2025.

Hengrui Zhang, Qitian Wu, Chenxiao Yang, Philip S Yu.

InfoMLP: Unlocking the Potential of MLPs for Semi-Supervised Learning with Structured Data.

In ACM International Conference on Information and Knowledge Management (CIKM), 2024.

Chenxiao Yang, Qitian Wu, David Wipf, Ruoyu Sun, Junchi Yan.

How Graph Neural Networks Learn: Lessons from Training Dynamics.

In International Conference on Machine Learning (ICML), 2024.

Qitian Wu, Fan Nie, Chenxiao Yang, Junchi Yan.

Learning Divergence Fields for Shift-Robust Graph Representations.

In International Conference on Machine Learning (ICML), 2024.

Qitian Wu, Fan Nie, Chenxiao Yang, Tianyi Bao, Junchi Yan.

Graph Out-of-Distribution Generalization via Causal Intervention.

In Proceedings of the ACM on Web Conference (WWW), 2024.

Qitian Wu, Wentao Zhao, Chenxiao Yang, Hengrui Zhang, Fan Nie, Haitian Jiang, Yatao Bian, Junchi Yan.

Simplifying and Empowering Transformers for Large-Graph Representations.

In Advances in Neural Information Processing Systems (NeurIPS), 2023.

Wentao Zhao, Qitian Wu, Chenxiao Yang, Junchi Yan.

GraphGLOW: Universal and Generalizable Structure Learning for Graph Neural Networks.

In Proceedings of the ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD), 2023.

Chenxiao Yang, Qitian Wu, Jiahua Wang, Junchi Yan.

Graph Neural Networks are Inherently Good Generalizers: Insights by Bridging GNNs and MLPs.

In International Conference on Learning Representations (ICLR), 2023.

Qitian Wu, Yiting Chen, Chenxiao Yang, Junchi Yan.

Energy-based Out-of-Distribution Detection for Graph Neural Networks.

In International Conference on Learning Representations (ICLR), 2023.

Qitian Wu, Chenxiao Yang, Wentao Zhao, Yixuan He, David Wipf, Junchi Yan.

DIFFormer: Scalable (Graph) Transformers Induced by Energy Constrained Diffusion.

In International Conference on Learning Representations (ICLR), 2023.

Chenxiao Yang, Qitian Wu, Junchi Yan.

Geometric Knowledge Distillation: Topology Compression for Graph Neural Networks.

In Advances in Neural Information Processing Systems (NeurIPS), 2022.

Chenxiao Yang, Qitian Wu, Qingsong Wen, Zhiqiang Zhou, Liang Sun, Junchi Yan.

Towards Out-of-Distribution Sequential Event Prediction: A Causal Treatment.

In Advances in Neural Information Processing Systems (NeurIPS), 2022.

Chenxiao Yang, Qitian Wu, Jipeng Jin, Xiaofeng Gao, Junwei Pan, Guihai Chen

Trading Hard Negatives and True Negatives: A Debiased Contrastive Collaborative Filtering Approach

In International Joint Conference on Artificial Intelligence (IJCAI), 2022.

Chenxiao Yang, Junwei Pan, Xiaofeng Gao, Tingyu Jiang, Dapeng Liu, Guihai Chen

Cross-Task Knowledge Distillation in Multi-Task Recommendation

In Proceedings of the AAAI Conference on Artificial Intelligence (AAAI), 2022.

Qitian Wu, Chenxiao Yang, Junchi Yan.

Towards Open-World Feature Extrapolation: An Inductive Graph Learning Approach.

In Advances in Neural Information Processing Systems (NeurIPS), 2021.

TALKS

PENCIL: Long Thoughts with Short Memory
(FLaNN), May 2025

Seminars on Formal Languages and Neural Networks

Graph Neural Networks are Inherently Good Generalizers: Insights by Bridging GNNs and MLPs
Learning on Graphs Seminar, June 2023

INDUSTRY EXPERIENCE

Amazon Web Services

Research Intern, Host: David Wipf

April 2023 - June 2024

Shanghai, CN

DAMO Academy, Alibaba

Research Intern, Host: Qingsong Wen

July 2021 - October 2021

Remote

Tencent

Research Intern, Host: Junwei Pan

December 2020 - June 2021

Shenzhen, CN

AWARDS

- Partha Niyogi Memorial Fellowship 2024
- National Scholarship for Graduate Students 2022, 2023
- First Prize, National High School Mathematics Competition 2016

SERVICES

Reviewer for ICML, NeurIPS, ICLR, AISTATS, AAAI, IJCAI, TNNLS