

# CHENXIAO YANG

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## EDUCATION

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**Toyota Technological Institute at Chicago**

September 2024 - Now

*PhD in Computer Science, Advisor: Prof. Zhiyuan Li*

**Shanghai Jiao Tong University**

September 2021 - March 2024

*M.S. in Computer Science, Advisor: Prof. Junchi Yan*

**Shanghai Jiao Tong University**

September 2017 - June 2021

*B.S. in Computer Science, GPA: 3.8/4.0*

## PUBLICATIONS

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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 Advective 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