

# Mufei Li

mufeili1996@gmail.com

Homepage: <https://mufeili.github.io>

## Education

- **Georgia Institute of Technology**

*Ph.D., Machine Learning*

Georgia, United States

Aug 2023 -

- **New York University Shanghai**

*B.S., Honors Mathematics*

Shanghai, China

Sep 2014 - May 2018

## Professional Experience

- **Research Scientist Intern**

*Meta Ranking and Foundational AI*

California, United States

May 2025 -

- **Software Development Engineer II**

*Amazon Web Services Shanghai AI Lab*

Shanghai, China

Jul 2020 - Jun 2023

- **Software Development Engineer I**

*Amazon Web Services Shanghai AI Lab*

Shanghai, China

Feb 2019 - Jul 2020

- **Research Assistant**

*New York University Shanghai*

Shanghai, China

Jun 2018 - Feb 2019

## Selected Publications

- Mufei Li, Dongqi Fu, Limei Wang, Si Zhang, Hanqing Zeng, Kaan Sancak, Ruizhong Qiu, Haoyu Peter Wang, Xiaoxin He, Xavier Bresson, Yinglong Xia, Chonglin Sun, Pan Li, **Haystack Engineering: Context Engineering for Heterogeneous and Agentic Long-Context Evaluation**, NeurIPS 2025 workshop on Evaluating the Evolving LLM Lifecycle.
- Haoyu Wang, Peihao Wang, Mufei Li, Shikun Liu, Sisi Miao, Zhangyang Wang, Pan Li, **Graph-KV: Breaking Sequence via Injecting Structural Biases into Large Language Models**, Advances in Neural Information Processing Systems (NeurIPS), 2025.
- Rongzhe Wei, Mufei Li, Mohsen Ghassemi, Eleonora Kreacić, Yifan Li, Xiang Yue, Bo Li, Vamsi K. Potluru, Pan Li, Eli Chien, **Underestimated Privacy Risks for Minority Populations in Large Language Model Unlearning**, International Conference on Machine Learning (ICML), 2025.
- Mufei Li\*, Sisi Miao\*, Pan Li, **Simple is Effective: The Roles of Graphs and Large Language Models in Knowledge-Graph-Based Retrieval-Augmented Generation**, International Conference on Learning Representations (ICLR), 2025 (\*Equal contribution); also selected for **oral presentation** at ICLR 2025 workshop on Foundation Models in the Wild.
- Mufei Li, Viraj Shitole, Eli Chien, Changhai Man, Zhaodong Wang, Srinivas Sridharan, Ying Zhang, Tushar Krishna, Pan Li, **LayerDAG: A Layerwise Autoregressive Diffusion Model for Directed Acyclic Graph Generation**, International Conference on Learning Representations (ICLR) **Spotlight (top 5.1%)**, 2025; also selected for **spotlight presentation** at ICLR 2025 workshop on “Will Synthetic Data Finally Solve the Data Access Problem?”.

- Mufei Li, Jinjing Zhou, Jiajing Hu, Wenxuan Fan, Yangkang Zhang, Yixin Gu, George Karypis, **DGL-LifeSci: An Open-Source Toolkit for Deep Learning on Graphs in Life Science**, ACS Omega, 2021. **700 stars on GitHub**.
- Minjie Wang, Da Zheng, Zihao Ye, Quan Gan, Mufei Li, Xiang Song, Jinjing Zhou, Chao Ma, Lingfan Yu, Yu Gai, Tianjun Xiao, Tong He, George Karypis, Jinyang Li, Zheng Zhang, **Deep Graph Library: A Graph-Centric, Highly-Performant Package for Graph Neural Networks**, arXiv, 2019. **14K stars on GitHub**.

## Honors and Awards

- Notable Reviewer for ICLR 2025
- Top Reviewer for NeurIPS 2024
- Georgia Tech ECE Fellowship

## Peer Review Service

- Conference on Neural Information Processing Systems (NeurIPS), 2024 - 2025
- International Conference on Learning Representations (ICLR), 2025 - 2026
- International Conference on Machine Learning (ICML), 2025
- IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2024
- Transactions on Machine Learning Research (TMLR), 2025
- ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD), 2024
- Learning on Graphs Conference (LoG), 2024
- Asian Conference on Machine Learning (ACML), 2024

## Talks & Tutorials

- Mufei Li, Fabio Broccatelli, **Accelerating Drug Discovery with Multitask Graph Neural Networks**, Nvidia GTC, 2021.
- Zichen Wang, Vassilis N. Ioannidis, Huzefa Rangwala, Tatsuya Arai, Ryan Brand, Mufei Li, Yohei Nakayama, **Graph Neural Networks in Life Sciences: Opportunities and Solutions**, KDD tutorial, 2022.

## Teaching Assistant

- ECE 6254 Statistical Machine Learning