Mufei Li

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Education

- **Georgia Institute of Technology** — Georgia, United States
  Ph.D., Machine Learning — *Aug 2023 -*
- **New York University Shanghai** — Shanghai, China
  B.S., Honors Mathematics — *Sep 2014 - May 2018*

Professional Experience

- **Research Scientist Intern** — California, United States
  Meta Ranking and Foundational AI — *May 2025 -*
- **Software Development Engineer II** — Shanghai, China
  Amazon Web Services Shanghai AI Lab — *Jul 2020 - Jun 2023*
- **Software Development Engineer I** — Shanghai, China
  Amazon Web Services Shanghai AI Lab — *Feb 2019 - Jul 2020*
- **Research Assistant** — Shanghai, China
  New York University Shanghai — *Jun 2018 - Feb 2019*

Selected Publications

- Rongzhe Wei, <u>Mufei Li</u>, Mohsen Ghassemi, Eleonora Kreačić, 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.

- <u>Mufei Li*</u>, Siqi 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.

- <u>Mufei Li</u>, 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?".

- Tengfei Ma, Xiang Song, Wen Tao, <u>Mufei Li</u>, Jiani Zhang, Xiaoqin Pan, Yijun Wang, Bosheng Song, Xiangxiang Zeng, **Towards Synergistic Path-based Explanations for Knowledge Graph Completion: Exploration and Evaluation**, International Conference on Learning Representations (ICLR), 2025.

- Eli Chien, <u>Mufei Li</u>, Anthony Aportela, Kerr Ding, Shuyi Jia, Supriyo Maji, Zhongyuan Zhao, Javier Duarte, Victor Fung, Cong Hao, Yunan Luo, Olgica Milenkovic, David Pan, Santiago Segarra, Pan Li, **Opportunities and challenges of graph neural networks in electrical engineering**, Nature Reviews Electrical Engineering, 2024.

- <u>Mufei Li</u>, Eleonora Kreačić, Vamsi K. Potluru, Pan Li, **GraphMaker: Can Diffusion Models Generate Large Attributed Graphs?**, Transactions on Machine Learning Research (TMLR), 2024.

- Fabio Broccatelli, Richard Trager, Michael Reutlinger, George Karypis, <u>Mufei Li</u>, **Benchmarking Accuracy and Generalizability of Four Graph Neural Networks Using Large In Vitro ADME Datasets from Different Chemical Spaces**, Molecular Informatics, 2022.

- Ziqi Chen, Bo Peng, Vassilis N. Ioannidis, <u>Mufei Li</u>, George Karypis, Xia Ning, **CTKG: A Knowledge Graph for Clinical Trials**, Scientific Reports, 2022.

- Fengqing Lu, <u>Mufei Li</u>, Xiaoping Min, Chunyan Li, Xiangxiang Zeng, **De novo generation of dual-target ligands using adversarial training and reinforcement learning**, Briefings in Bioinformatics, 2021.

- <u>Mufei Li</u>, Jinjing Zhou, Jiajing Hu, Wenxuan Fan, Yangkang Zhang, Yaxin Gu, George Karypis, **DGL-LifeSci: An Open-Source Toolkit for Deep Learning on Graphs in Life Science**, ACS Omega, 2021.

- Vassilis N. Ioannidis, Xiang Song, Saurav Manchanda, <u>Mufei Li</u>, Xiaoqin Pan, Da Zheng, Xia Ning, Xiangxiang Zeng, George Karypis, **DRKG - Drug Repurposing Knowledge Graph for Covid-19**, preprint, 2020.

- Minjie Wang, Da Zheng, Zihao Ye, Quan Gan, <u>Mufei Li</u>, 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.

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

- 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

- <u>Mufei Li</u>, Fabio Broccatelli, **Accelerating Drug Discovery with Multitask Graph Neural Networks**, Nvidia GTC, 2021.

- Zichen Wang, Vassilis N. Ioannidis, Huzefa Rangwala, Tatsuya Arai, Ryan Brand, <u>Mufei Li</u>, Yohei Nakayama, **Graph Neural Networks in Life Sciences: Opportunities and Solutions**, KDD tutorial, 2022.

Teaching Assistant

- ECE 6254 Statistical Machine Learning