Mufei Li

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Homepage: https://mufeili.github.io

Education

- **Georgia Institute of Technology** — Atlanta, GA, United States
  Ph.D., Machine Learning — *Aug 2023 - May 2027 (expected)*
- **New York University Shanghai** — Shanghai, China
  B.S., Honors Mathematics — *Sep 2014 - May 2018*

Professional Experience

Applied Scientist Intern — Seattle, WA, United States
- *Amazon Web Services* — *May 2026 - Aug 2026*
  On-policy distillation (OPD) for multi-turn tool use agents

Research Scientist Intern — Sunnyvale, CA, United States
- *Meta Ranking and Foundational AI* — *May 2025 - Nov 2025*
  Long-context reasoning and retrieval-augmented generation (RAG)

Software Development Engineer II — Shanghai, China
- *Amazon Web Services Shanghai AI Lab* — *Feb 2019 - Jun 2023*
  Core developer team for Deep Graph Library (14K GitHub stars) on graph deep learning

Selected Publications

- Mufei Li et al., **Which Successes Make Good References? Action-Sequence Alignment for Multi-Turn On-Policy Distillation**, arXiv, 2026.
- Shikun Liu, Mufei Li et al., **Towards Direct Latent-Space Synthesis for Parallel Branches in LLM-Agent Workflows**, NeurIPS, 2026.
- Mufei Li et al., **KVEraser: Learning to Steer KV Cache for Efficient Localized Context Erasing**, oral at ICML 2026 MemFM workshop.
- Deyu Zou, Yongqiang Chen, Jianxiang Wang, Garry Yang, Mufei Li, et al., **T^3: Reducing Belief Deviation in Reinforcement Learning for Active Reasoning**, ICLR oral (top 1.18%), 2026.
- Mufei Li et al., **Haystack Engineering: Context Engineering for Heterogeneous and Agentic Long-Context Evaluation**, NeurIPS 2025 LLM-eval workshop.
- Haoyu Wang, Peihao Wang, Mufei Li, et al., **Graph-KV: Breaking Sequence via Injecting Structural Biases into Large Language Models**, NeurIPS, 2025.
- Mufei Li*, Siqi Miao*, Pan Li, **Simple is Effective: The Roles of Graphs and Large Language Models in Knowledge-Graph-Based Retrieval-Augmented Generation**, ICLR, 2025 (*Equal contribution); also oral presentation at ICLR 2025 FM-Wild workshop.

- Mufei Li et al., **LayerDAG: A Layerwise Autoregressive Diffusion Model for Directed Acyclic Graph Generation**, ICLR Spotlight (top 5.1%), 2025; also spotlight at ICLR 2025 SynthData workshop.

Honors and Awards

- Silver Reviewer for ICML 2026
- Notable Reviewer for ICLR 2025
- Top Reviewer for NeurIPS 2024, 2026
- Georgia Tech ECE Fellowship
- Gemini Academic Program Award

Peer Review Service

- Conference on Neural Information Processing Systems (NeurIPS), 2024 - 2026
- International Conference on Learning Representations (ICLR), 2025 - 2027
- International Conference on Machine Learning (ICML), 2025 - 2026
- 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