

Xiang LIU

Homepage: <https://xiangl-ml.github.io/>

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EDUCATION

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- **The Hong Kong University of Science and Technology (Guangzhou)** **Guangzhou, CHINA**
PhD in DSA Thrust, supervised by Professor Xiaowen Chu Sep 2023 - Aug 2027
 - **New York University** **NY, USA**
Visiting PhD in CDS, supervised by Professor Eunsol Choi July 2025 - Jan 2026
 - **The University of Hong Kong** **Hong Kong SAR, CHINA**
Master of Science(MSc) in Computer Science Sep 2022 - Aug 2023
 - **George Mason University** **VA, USA**
Bachelor of Science in Computer Science; GPA: 3.71/4.0 Aug 2018 - Aug 2022
Honors/Awards: Dean's List (2018-2020)

SELECTED RESEARCH

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- **DiffAdapt: Difficulty-Adaptive Reasoning for Token-Efficient LLM Inference** **ICLR 2026**
First Author · Adaptive Inference, Reasoning LLM, Token Efficiency, Entropy Analysis
 - **Reasoning Language Model Inference Serving Unveiled: An Empirical Study** **ICLR 2026**
Co-first Author · LLM Serving, Reasoning System, Empirical Study, Memory Optimization
 - **ChunkKV: Semantic-preserving KV cache compression for efficient long-context LLM** **NeurIPS 2025**
First Author · KV Cache, Inference, GPU Memory, Long-Context
 - **LISA: Layerwise Importance Sampling for Memory-Efficient LLM Fine-Tuning** **NeurIPS 2024**
Co-first Author · Parameter Efficient Fine-tuning, Layer-wise Optimization
 - **Should We Really Edit Language Models? On the Evaluation of Edited LLMs** **NeurIPS 2024**
Co-first Author · Model Editing, Benchmark, Model Robustness
 - **LongGenBench: Long-context Generation Benchmark** **EMNLP Findings 2024**
First Author · Long-context Generation, Long-context LLMs, Logical Coherence

EXPERIENCE

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- **NYU Center for Data Science** **NY, USA**
Visiting Student Supervisor: Prof. Eunsol Choi July 2025 - Jan 2026
 - Proposed **DiffAdapt**, a novel algorithm for efficient adaptive reasoning for LLMs (Accepted to ICLR 2026).
 - Conducted comprehensive entropy analysis on reasoning traces to identify "overthinking" phenomena.
 - **HKUST Statistics and Machine Learning Research Group** **HK, CHINA**
Research Intern Supervisor: Prof. Tong Zhang Dec 2022 - Aug 2023
 - Proposed **LISA**, a novel algorithm for efficient fine-tuning of LLMs, accepted at *NeurIPS 2024*.
 - Contributed to the LMFlow framework, enabling personalized LLM fine-tuning and deployment (LLaMA, Bloom, Vicuna).
 - Conducted research on Chain-of-Thought (CoT) methods to enhance logical reasoning in LLMs.
 - **Baidu Research Cognitive Computing Lab** **Beijing, CHINA**
Research Intern Dec 2021 - June 2022
 - Worked on dependency parsing using Open Information Annotation (OIA) to convert sentences into DAGs.

COMPETITIONS

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- **Kaggle — Feedback Prize - Predicting Effective Arguments Competition** **Jun 2022 - Aug 2022**
Team Leader — Silver Medal (Top 2%)
 - Developed baseline code, designed data preprocessing strategies, and optimized model structures.
 - Implemented token classification replacing sequence classification, boosting rank and efficiency.

PROFESSIONAL SKILLS

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- **Languages:** English, Mandarin
 - **Computing Skills:** PyTorch, Git, Linux