

# Xiang LIU

Homepage: <https://dominic789654.github.io/>

Google Scholar: VtK5lwUAAAAJ

Email: xliu886@connect.hkust-gz.edu.cn

Mobile: +86-15617865777

## EDUCATION

- 
- **The Hong Kong University of Science and Technology (Guangzhou)** Guangzhou, CHINA  
*PhD in DSA Thrust, supervised by Professor Xiaowen Chu* Sep 2023 - Aug 2027
  - **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)  
*Courses:* Natural Language Processing, Visual Computing, Data Structures, Database Concepts

## SELECTED RESEARCH

- 
- **LISA: Layerwise Importance Sampling for Memory-Efficient Large Language Model Fine-Tuning**  
*NeurIPS 2024*
    - Rui Pan\*, Xiang Liu\*, Shizhe Diao, Renjie Pi, Jipeng Zhang, Chi Han, Tong Zhang
    - Parameter Efficient Fine-tuning, Layer-wise Optimization, GPU Memory Optimization
  - **Should We Really Edit Language Models? On the Evaluation of Edited Language Models**  
*NeurIPS 2024*
    - Qi Li\*, Xiang Liu\*, Zhenheng Tang, Peijie Dong, Zeyu Li, Xinglin Pan, Xiaowen Chu
    - Model Editing, Benchmark, Model Robustness
  - **LongGenBench: Long-context Generation Benchmark**  
*EMNLP Findings 2024*
    - Xiang Liu, Peijie Dong, Xuming Hu, Xiaowen Chu
    - Long-context Generation, Long-context LLMs, Logical Coherence

## EXPERIENCE

- 
- **NYU Center for Data Science** NY, USA  
*Visiting Student Supervisor: Prof. Eunsol Choi* July 2025 - Jan 2026
  - **HKUST Statistics and Machine Learning Research Group** HK,CHINA  
*Research Intern Supervisor: Prof. Tong Zhang* Dec 2022 - Aug 2023
    - Proposed **LISA: Layerwise Importance Sampling for Memory-Efficient Large Language Model Fine-Tuning**, a novel algorithm for efficient fine-tuning of LLMs, accepted at *NeurIPS 2024*.
    - Contributed to the LMFlow, a framework that allows fine-tuning and deploying personalized LLMs with minimal cost and effort. And focused on fine-tuning Large Language Models, including LLaMa, Bloom and Vicuna.
    - Conducted research on the Chain-of-thought (COT) method to enhance Large Language Models' logical ability.
  - **Baidu Research Cognitive Computing Lab** Beijing,CHINA  
*Research Intern* Dec 2021 - June 2022
    - Worked on dependency parsing using the Open Information Annotation (OIA) method to convert sentences into directed acyclic graphs (DAGs).
    - Enhanced the performance of the OIA method for Chinese sentences by integrating node type and edge type specific to Chinese OIA, achieving parity with English OIA.

## COMPETITIONS

- 
- **Kaggle — Feedback Prize - Predicting Effective Arguments Competition** Jun 2022 - Aug 2022  
*Team Leader — Silver Medal (Top 2%)*
    - Developed baseline code, and designed various data preprocessing strategies, and model structures.
    - Implemented token classification instead of sequence classification, boosting rank and saving time on training and inference. Acquired proficiency in using Transformers training API.

## PROFESSIONAL SKILLS

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