

# Xiao Liang

 Email |  Github |  Website |  LinkedIn |

## Education

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**Tsinghua University (THU)** | GPA: 3.98/4.0

Sept. 2022 - Present

**M.Sc.** | Data Science and Information Technology

Beijing, China

**Sun Yat-sen University (SYSU)** | GPA: 4.11/5.0

Sept. 2018 - June. 2022

**B.Sc.** | Electronic Information Science and Technology

Guangzhou, China

## Publications

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### Language Modeling

- [1] **Xiao Liang**, Xinyu Hu, Simiao Zuo, Jimi He, Yu Wang, Victor Ye Dong, Yeyun Gong, Kushal S. Dave, Yi Liu, Qiang Lou, Shao-Lun Huang, Jian Jiao. *What You See Is What You Get: Entity-Aware Summarization for Reliable Sponsored Search*. In **NeurIPS SafeGenAI 2024**. [\[Paper\]](#)
- [2] Yi Cheng, **Xiao Liang**, Yeyun Gong, Wen Xiao, Song Wang, Yuji Zhang, Wenjun Hou, Kaishuai Xu, Wenge Liu, Wenjie Li, Jian Jiao, Qi Chen, Peng Cheng, Wayne Xiong. *Integrative Decoding: Improve Factuality via Implicit Self-consistency*. in **ICLR 2025**. [\[Paper\]](#) [\[Code\]](#)
- [3] **Xiao Liang\***, Xinyu Hu\*, Simiao Zuo, Yeyun Gong, Qiang Lou, Yi Liu, Shao-Lun Huang, Jian Jiao. *Task Oriented In-Domain Data Augmentation*. In **EMNLP Main 2024**. [\[Paper\]](#)
- [4] Jiawen Xie, Pengyu Cheng, **Xiao Liang**, Yong Dai, Nan Du. *Chunk, Align, Select: A Simple Long-sequence Processing Method for Transformers*. In **ACL 2024**. [\[Paper\]](#) [\[Code\]](#)
- [5] Tao Shi\*, **Xiao Liang\***, Yaoyuan Liang, Xinyi Tong, Shao-Lun Huang. *SSLCL: An Efficient Model-Agnostic Supervised Contrastive Learning Framework for Emotion Recognition in Conversations*. Preprint 2023. [\[Paper\]](#) [\[Code\]](#)
- [6] Yiyao Yu, Yuxiang Zhang, Dongdong Zhang, **Xiao Liang**, Hengyuan Zhang, Xingxing Zhang, Ziyi Yang, Mahmoud Khademi, Hany Awadalla, Junjie Wang, Yujiu Yang, Furu Wei. *Chain-of-Reasoning: Towards Unified Mathematical Reasoning in Large Language Models via a Multi-Paradigm Perspective*. Preprint 2025. [\[Paper\]](#)
- [7] Microsoft Sigma Team. *SIGMA: Differential Rescaling Of Query, Key And Value For Efficient Language Models* Microsoft Research Asia Artificial Intelligence Reasoning Group. Preprint 2025. [\[Paper\]](#)

### Multimodal Learning

- [8] **Xiao Liang\***, Tao Shi\*, Yaoyuan Liang, Te Tao, Shao-Lun Huang. *Exploring Iterative Refinement with Diffusion Models for Video Grounding*. In **ICME 2024**. [\[Paper\]](#) [\[Code\]](#)
- [9] Yaoyuan Liang\*, **Xiao Liang\***, Yansong Tang, Zhao Yang, Ziran Li, Jingang Wang, Wenbo Ding, Shao-Lun Huang. *CoSTA: End-to-End Comprehensive Space-Time Entanglement for Spatio-Temporal Video Grounding*. In **AAAI 2024**. [\[Paper\]](#)
- [10] Yaoyuan Liang, Zhuojun Cai, Jian Xu, Guanbo Huang, Yiran Wang, **Xiao Liang**, Jiahao Liu, Ziran Li, Jingang Wang, Shao-Lun Huang. *Unleash Region Understanding in Intermediate Layers for MLLM-based Referring Expression Generation*. In **NeurIPS 2024**. [\[Paper\]](#) [\[Code\]](#)

(\* indicates equal contribution)

# Professional Experience

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Microsoft Research Asia (MSR Asia)

Nov. 2023 - Present

Mentor:Dr. Yeyun Gong, Dr. Weizhu Chen,Beijing, China

- Pre-training and continual learning for large language models (LLMs).
- Reinforcement learning to enhance reasoning in LLMs.

Tencent Artificial Intelligence Lab (AI Lab, NLP)

Mar. 2023 - Sep. 2023

Mentor: Dr.Pengyu Cheng, Dr.Nan DuShenzhen, China

- Utilizing reinforcement learning for long sequence modeling in Transformers.
- Dialog generation and task-specific instruction data generation.

# Awards and Honors

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- Second Prize Scholarship of Tsinghua University (top 10%).2023 - 2024
- Outstanding Graduate Thesis of Sun Yat-sen University (top 5%).Jun. 2022
- Outstanding Graduate Student of Sun Yat-sen University (top 10%).Jun. 2022
- Second Prize Scholarship of Sun Yat-sen University (top 15%) for 3 times.2019 - 2022

# Skills

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Programming Languages: Python | MATLAB | Shell | LATEX | C++/C | HTML

Programming Tools: Git | PyTorch | Docker | Linux Ops | Vim

English Skills: Toefl 102

# Academic Services

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Reviewer of :

- The Conference on Empirical Methods in Natural Language Processing (EMNLP) {24}
- The IEEE International Conference on Multimedia and Expo (ICME) {24}
- The IEEE International Conference on Automatic Face and Gesture Recognition (FG) {23, 24}