Xiao Liang

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Education

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

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. [To Be Present]

- [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.* Preprint 2024. [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]

Multimodal Learning

- [5] **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]

- [6] 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]

- [7] 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 2024. [Paper] [Code]

- [8] 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. [To Be Present]

(* indicates equal contribution)

Professional Experience

Microsoft Research Asia (MSR Asia)   *Nov. 2023 - Present*
Mentor: Dr.Yeyun Gong   *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 Du   *Shenzhen, China*

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

Awards and Honors

- 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

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

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

Academic Services

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}