

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, Yeyun Gong, Qiang Lou, Yi Liu, Shao-Lun Huang, Jian Jiao. Task Oriented In-Domain Data Augmentation. Under review 2024. [\[Paper\]](#)
- [2] 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

- [3] **Xiao Liang***, Tao Shi*, Yaoyuan Liang, Te Tao, Shao-Lun Huang. Exploring Iterative Refinement with Diffusion Models for Video Grounding. **In *ICME 2024***. [\[Paper\]](#) [\[Code\]](#)
- [4] 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***. [\[Paper\]](#)
- [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. Under review 2023. [\[Paper\]](#) [\[Code\]](#)

(* 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}