

SHUAI LIU

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🎓 EDUCATION

Nanyang Technological University (NTU), Singapore 2024 – 2026 (Expected)
Master of Engineering (by Research) in Computer Science
MMLab, S-Lab@NTU, Advised by Prof. Ziwei Liu

Beijing University of Posts and Telecommunications (BUPT), Beijing, China 2020 – 2024
Bachelor in Artificial Intelligence
Average Mark: 90; GPA: 3.75 / 4.0 (Ranking 8 / 125)

📖 PUBLICATIONS

- [1] Aero-1-Audio
Bo Li*, Chen Change Loy, Fanyi Pu, Jingkan Yang, Kaichen Zhang*, Kairui Hu, Luu Minh Thang*, Nguyen Quang Trung*, Pham Ba Cong*, **Shuai Liu**, Yezhen Wang*, Ziwei Liu (*alphabetical order, *main contributors*)
- [2] EgoLife: Towards Egocentric Life Assistant (*CVPR*, 2025, 230+ stars on Github)
Jingkan Yang, **Shuai Liu**, Hongming Guo, Yuhao Dong, Xiamengwei Zhang, Sicheng Zhang, Pengyun Wang, Zitang Zhou, Binzhu Xie, Ziyue Wang, Bei Ouyang, Zhengyu Lin, Marco Cominelli, Zhongang Cai, Yuanhan Zhang, Peiyuan Zhang, Fangzhou Hong, Joerg Widmer, Francesco Gringoli, Lei Yang, Bo Li, Ziwei Liu.
- [3] Octopus: Embodied vision-language programmer from environmental feedback (*ECCV*, 2024) (**equal contributions, 240+ stars on Github*)
Jingkan Yang*, Yuhao Dong*, **Shuai Liu***, Bo Li*, Ziyue Wang, Jiamu Kang, ChenCheng Jiang, Haoran Tan, Yuanhan Zhang, Kaiyang Zhou, Ziwei Liu.
- [4] 4D Panoptic Scene Graph Generation (*NeurIPS*, 2023 Spotlight).
Jingkan Yang, Jun CEN, Wenxuan Peng, **Shuai Liu**, Fangzhou Hong, Xiangtai Li, Kaiyang Zhou, Qifeng Chen, Ziwei Liu.
- [5] LMMs-Eval: Reality Check on the Evaluation of Large Multimodal Models (*NAACL*, 2025, 2.2k stars on Github)
Kaichen Zhang, Bo Li, Peiyuan Zhang, Fanyi Pu, Joshua Adrian Cahyono, Kairui Hu, **Shuai Liu**, Yuanhan Zhang, Chunyuan Li, Ziwei Liu.

👥 INTERNSHIP EXPERIENCE

Shanghai AI Laboratory Aug. 2023 - July. 2024
Trainee Researcher. Advisor: Prof. Ziwei Liu

Focused on visual perception and reasoning in the open world and simulation, specifically in the areas of multi-modality, scene graph generation, and Embodied AI.

HAOMO.AI Nov. 2022 - Apr. 2023
Research Intern. Advisor: Prof. Yang Yang and Dr. Dong Cao

Focused on 3D detection in Autonomous Driving and BEV Perception.

⚙️ PROJECT EXPERIENCE

Core Member, LMMs-Lab

lmms-eval – A unified one-click evaluation framework for Large Multimodal Models (LMMs)
2.2k stars on <https://github.com/EvolvingLMMs-Lab/lmms-eval>

- Contributed evaluation models and benchmarks for image and video tasks, supporting consistent and scalable LMM assessment.
- Enhanced framework usability and modularity to facilitate plug-and-play integration with mainstream LMMs.

Contributor, Fast-GraphRAG

3.1k stars on <https://github.com/circlemind-ai/fast-graphrag>

- Contributed the initialization of the graphrag system.
- Enhanced indexing in embedding search.

Invited Talks



EgoLife &  Meta ARIA Team

March, 2025

Presented the multimodal model training, demonstrating how EgoLife integrates with ARIA smart glasses for egocentric vision applications.