SHI LIU

https://lalbj.github.io/

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EDUCATION

Zhejiang University *Sep 2021 - Jun 2024*
School of Software, Master GPA: 89.73 (9/231)

Central South University *Sep 2017 - Jun 2021*
School of Software, Bachelor GPA: 89.78

EXPERIENCE

Shanghai AI Laboratory, Research Assistant *Jun 2024 - now*
Research on Large Vision-Language Models' understanding application.
Investigating internal generation mechanisms and architectural design of LVLMs.

Zhejiang Laboratory, Research Intern *Jun 2023 - Oct 2023*
Research on interpretability analysis on Vision-Language Models.
Designed novel probing algorithms to analyze internal mechanisms of VLMs.

OPPO, Research Intern *Mar 2023 - Jun 2023*
Analyzed mobile user behavior through event tracking data mining.
Developed semi-supervised scoring model for user experience.

Ant Group, Software Developer Intern *Feb 2022 - Jun 2022*
Responsible feature development for AIStudio platform.
Refactored core modules of AIStudio using Mana framework.

PUBLICATIONS

CoMemo: LVLMs need image context with image memory. **Shi Liu**, Weijie Su, Xizhou Zhu, Wenhai Wang, Jifeng Dai *Under Review*

Paying More Attention to Image: A Training-Free Method for Alleviating Hallucination in LVLMs. **Shi Liu**, Kecheng Zheng, Wei Chen *ECCV 2024*

Conceptual Augmentation: Advancing Model Interpretability Through Language-Model Integration and Concept-Wise Explicability. **Shi Liu**, Lechao Cheng, Wei Chen *Under Review*

Towards an understanding and explanation for mixed-initiative artificial scientific text detection. Luoxuan Weng, **Shi Liu**, Hang Zhu, Jiashun Sun, Wong Kam-Kwai, Dongming Han, Minfeng Zhu, Wei Chen *Information Visualization*

Xnli: Explaining and diagnosing nli-based visual data analysis. Yingchaojie Feng, Xingbo Wang, Bo Pan, Kam Kwai Wong, Yi Ren, **Shi Liu**, Zihan Yan, Yuxin Ma, Huamin Qu, Wei Chen

VIEA: A Visualization System for Industrial Economics Analysis Based on Trade Data.
Ziliang Wu, **Shi Liu**, Yuefan Zhou, Tong Xu, Jiacheng Pan, Zhiguang Zhou, Wei Chen, Fei-Yue Wang
TCSS 2023

AWARDS AND SCHOLARSHIPS

Guoqiang Scholarship (top 3%)	*2022*
Outstanding Academic Scholarship	*2023*
Outstanding Graduate of Zhejiang Province	*2024*
Central South University Scholarship	*2017-2021*
National Post-Graduate Mathematical Contest in Modeling, National Second Prize	*2021*
Competition of Service Outsourcing and Entrepreneurship Innovation, National Second Prize	*2020*
Competition of Service Outsourcing and Entrepreneurship Innovation, First Prize of Hunan Province	*2020*
MCM/ICM Meritorious Prize	*2019*

SKILLS

Programming Languages and Frameworks
Python, JavaScript, C++, Java
Pytorch, Sklearn, React, Linux, Github
Languages
English, Mandarin