Sifan Li, M.S. Student

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About Me

- I am currently in the final year of my M.S. program at Liaoning University. I have previously been a visiting student at HKUST-GZ under the supervision of Dr. Bingzhuo Zhong, and at Peking University under the supervision of Dr. Hao Tang. I am now a research intern at vivo Co., Ltd. and the University of California, Merced, working under the supervision of Dr. Yiwei Wang.
- My research interests include NLP, multimodal LLMs, computer vision, Diffusion Models on T2I, Diffusion Models on LLM, efficient training and inference, multimedia quality assessment, controllable T2I, AIGC, world model *etc.*

Employment

2025 – now **vivo Mobile Communication Co., Ltd.**
Assistant Algorithm Engineer intern in NLP.

2024 – now **University of California, Merced**
Research Intern advised by Asst. Prof. Yiwei Wang.

2024 – 2025 **Peking University**
Visiting Student advised by Asst. Prof. Hao Tang.

2023 – 2024 **Hong Kong University of Science and Technology (Guangzhou)**
Research Assistant advised by Asst. Prof. Bingzhuo Zhong.

Education

2023 – now **M.S., Computer Science, Liaoning University**
Advised by Assoc. Prof. Yun Liu.

2017 – 2021 **B.E., Computer Science, Shenyang Jianzhu University**
Thesis title: *Practical C#-Based System for Contour Display and Camber Recognition of Steel Plates*.

Research Papers

1. **S. Li**, Y. Cai, B. Hooi, N. Peng, and Y. Wang, *Do "new snow tablets" contain snow? large language models over-rely on names to identify ingredients of chinese drugs*, 2025. arXiv: 2504.03786 [cs.CL]. URL: https://arxiv.org/abs/2504.03786.
2. **S. Li**, Y. Cai, and Y. Wang, *Semvink: Advancing vlms' semantic understanding of optical illusions via visual global thinking*, (This paper has been accepted to EMNLP 2025 main conference.), 2025. arXiv: 2506.02803 [cs.CL]. URL: https://arxiv.org/abs/2506.02803.
3. **S. Li**, M. Tao, H. Zhao, L. Shao, and H. Tang, *Replace in translation: Boost concept alignment in counterfactual text-to-image*, 2025. arXiv: 2505.14341 [cs.CV]. URL: https://arxiv.org/abs/2505.14341.
4. Y. Liu, **S. Li**, H. Duan, Y. Zhou, D. Fan, and G. Zhai, "Multi-task guided blind omnidirectional image quality assessment with feature interaction," *IEEE Transactions on Circuits and Systems for Video Technology*, pp. 1–1, 2025. DOI: 10.1109/TCSVT.2025.3551723.

5. Y. Liu, **S. Li**, D. Fan, H. Duan, and P. Jing, "Tffn: Three-branch feature fusion network for stereoscopic omnidirectional image quality assessment," *IEEE Transactions on Multimedia (accepted)*, 2025.
6. Y. Liu, **S. Li**, Z. Liu, H. Wang, and D. Fan, "Bpgi: A brain-perception guided interactive network for stereoscopic omnidirectional image quality assessment," *IEEE Open Journal on Immersive Displays (accepted)*, 2025.
7. Y. Liu, Z. Wen, **S. Li**, D. Fan, and G. Zhai, "Image aesthetics assessment based on visual perception and textual semantic understanding," in *Digital Multimedia Communications*, G. Zhai, J. Zhou, L. Ye, H. Yang, P. An, and X. Yang, Eds., Singapore: Springer Nature Singapore, 2024, pp. 39–53, ISBN: 978-981-97-3626-3. DOI: https://doi.org/10.1007/978-981-97-3626-3_4.
8. Y. Liu et al., "A multimodal fake news detection model with self-supervised unimodal label generation," in *Advanced Intelligent Computing Technology and Applications*, D.-S. Huang, W. Chen, and Y. Pan, Eds., Singapore: Springer Nature Singapore, 2024, pp. 130–141, ISBN: 978-981-97-5603-2. DOI: https://doi.org/10.1007/978-981-97-5603-2_11.

Skills

Languages	Fluent in English (CET-6, Score: 595) and Native Chinese
Programming Languages	Python, C, C++, C#, Java, SQL, LaTeX, …
Database Systems	MySQL, Oracle
Web Development	HTML, CSS, JavaScript, Apache Web Server, Tomcat Web Server
Additional Skills	Academic research; machine learning model training and fine-tuning; scholarly writing using LaTeX; …

Competitions and Project Experience

2018	First Prize, Liaoning Province College Student New Media Design Competition
	First Prize, Liaoning Province College Student Mobile Application Development Competition
2019	Second Prize, Liaoning Province College Student Computer Design Competition
	Second Prize, Liaoning Province College Student Mobile Application Development Competition
	Second Prize (Liaoning Province), FLTRP·CUP National English Speaking Competition for College Students
	MCM/ICM 2019 Successful Participant
	Research on Elliptic Curve Encryption
	Student Information Management System Based on Tomcat
2020 – 2021	Steel Plate Contour Display and Side Bend Recognition System Based on C#
2021	Campus Information Management Website
2023 – 2025	Panoramic Image Quality Assessment Application System
2023 – 2024	Gas Detection and Composition Analysis System
2024 – 2025	Panoramic Video Quality Assessment System