

Yiyang Huang (He/Him/His)

huang.yiyan@northeastern.edu | +1 781-873-9395 | Personal page | LinkedIn | GitHub | Google Scholar

Education

Northeastern University, Boston, US	Sep 2024 – present
• Ph.D. in Computer Engineering, advised by Prof. Yun Raymond Fu	
Xidian University, Xi'an, CN	Sep 2021 – Jun 2024
• M.S. in Computer Science, advised by Prof. Xuefeng Liang	
Xidian University, Xi'an, CN	Sep 2017 – Jun 2021
• B.Eng. in Intelligence Science and Technology	

Research Interests

Multimodal LLMs, efficiency, and reliability, with a focus on: hallucination detection and mitigation; video understanding; layout understanding.

Experience

Adobe Research, San Jose, US	May 2025 – Nov 2025
Research Intern Mentor: Zhaowen Wang; Simon Jenni; Jing Shi;	
• Introduces a novel framework designed to enable Vision-Language Models (VLMs) to understand complex, multi-layered graphic design layouts. While current models excel at simple “atomic” layouts (like forms), they fail to grasp “compositional” layouts where elements interact (e.g., text wrapping, image blending).	
Kyoto University, Kyoto, JP	Sep 2023 – Mar 2024
Research Student Mentor: Prof. Takatsune Kumada	
• Enhanced a multimodal LLM with body language cues, including facial expressions, posture, and gestures, to improve understanding of social interactions. Combined Chain-of-Thought reasoning and cognitive theory to reduce modal bias and improve emotion and intention inference in few-shot in-context learning.	

Publications

Preprints and Under Review

- **Yiyang Huang**, Yitian Zhang, Yizhou Wang, Mingyuan Zhang, Liang Shi, Huimin Zeng, Yun Fu. “Distorted or Fabricated? A Survey on Hallucination in Video LLMs.” *ARR under-review*.
- **Yiyang Huang**, Zhaowen Wang, Simon Jenni, Jing Shi, Yun Fu. “MASON: Compositional Design Layout Understanding in VLMs through Multimodal Alignment and Structural Perception.” *CVPR under-review*.

Peer-Reviewed Publications

- **Yiyang Huang**, Liang Shi, Yitian Zhang, Yi Xu, Yun Fu. “SHIELD: Suppressing Hallucinations in LVLM Encoders via Bias and Vulnerability Defense.” *ICLR 2026*. [Paper] [Code]
- **Yiyang Huang**, Yizhou Wang, Yun Fu. “D-CoDe: Scaling Image-Pretrained VLMs to Video via Dynamic Compression and Question Decomposition.” *EMNLP 2025 (main)*. [Paper] [Code]
- Shuai Zou, Xuefeng Liang, **Yiyang Huang**. “LipReading for Low-resource Languages by Language Dynamic LoRA.” *ICASSP 2025*. [Paper]
- **Yiyang Huang**, Xuefeng Liang, Chaowei Fang. “CALLip: Lipreading using Contrastive and Attribute Learning.” *ACMMM 2021*. [Paper]

Academic Service

Conference Reviewer: ARR, FG

Journal Reviewer: ACM Transactions on Knowledge Discovery from Data (TKDD)

Skills

Languages: Python, C++, Matlab, L^AT_EX.

Tools and libs: PyTorch, Numpy, TorchLighting, Skimage, Scikit-learn.

Awards

- Outstanding Student, Xidian University, China, 2022.
- National Scholarship, China, 2021.
- Undergraduate Computer Design Competition, 1st Prize, China, 2021.
- National Robotic Competition (RoboMaster), 2nd Prize, China, 2019.
- ICRA 2019 AI Challenge, 3rd Prize, 2019.