

# Haonan Zhang

PH.D. STUDENT IN COMPUTER SCIENCE · UESTC

✉ zchiowal@gmail.com | 🏠 Homepage | 📧 Haonan | 🎓 Google Scholar

## Research Interest

My research interests focus on Multi-modal Learning, LLMs. I am currently exploring the exciting and fast-growing field of Vision-Language-Action (VLA) models as part of my recent research.

## Education Backgrounds

### University of Electronic Science and Technology of China

Chengdu

- **PH.D. STUDENT IN COMPUTER SCIENCE AND TECHNOLOGY**, Supervisors: Prof. [Lianli Gao](#)

Sep. 2022 - present

### University of Electronic Science and Technology of China

Chengdu

- **MASTER STUDENT IN ELECTRONIC INFORMATION**, Supervisors: Prof. [Jingquan Song](#)

Sep. 2020 - Jun. 2022

### Xidian University

Xi'an

- **B.ENG. IN COMPUTER SCIENCE AND TECHNOLOGY**

Sep. 2016 - Jun. 2020

## Research Experience

### University of Trent. Supervisor, Prof. [Nicu Sebe](#) | Visiting Ph.D Student

May 2025 - present

Area: Multimodal LLMs, Vision-Language Action (VLA) Model.

### Alibaba Group, Tongyi Laboratory | Research Intern

May 2024 - Dec. 2024

Area: Multimodal LLMs, Role-playing Agent, Video-Language-Audio Understanding.

## Selected Publications

- **OmniCharacter: Towards Immersive Role-Playing Agents with Seamless Speech-Language Personality Interaction** *ACL25*  
**Haonan Zhang**, Run Luo, Xiong Liu, Yuchuan Wu, Ting-En Lin, Pengpeng Zeng, QIANG QU, Feiteng Fang, Min Yang, Lianli Gao, Jingquan Song, Fei Huang, Yongbin Li
- **MMEvol: Empowering Multimodal Large Language Models with Evol-Instruct** *ACL25*  
RUN LUO\*, **HAONAN ZHANG** (EQUAL CONTRIBUTION)\*, LONGZE CHEN\*, TING-EN LIN\*, XIONG LIU, YUCHUAN WU, MIN YANG, MINZHENG WANG, PENG-PENG ZENG, LIANLI GAO, HENG TAO SHEN, YUNSHUI LI, XIAOBO XIA, FEI HUANG, JINGKUAN SONG, YONGBIN LI
- **Text-Video Retrieval with Global-Local Semantic Consistent Learning** *TIP25*  
**HAONAN ZHANG**, PENG-PENG ZENG, LIANLI GAO, JINGKUAN SONG, YIHANG DUAN, XINYU LYU, HENG TAO SHEN
- **OpenOmni: Large Language Models Pivot Zero-shot Omnimodal Alignment across Language with Real-time Self-Aware Emotional Speech Synthesis** *arXiv25*  
RUN LUO, TING-EN LIN, **HAONAN ZHANG**, YUCHUAN WU, XIONG LIU, MIN YANG, YONGBIN LI, LONGZE CHEN, JIAMING LI, LEI ZHANG, YANGYI CHEN, HAMID ALINEJAD-ROKNY, FEI HUANG
- **UMP: Unified Modality-aware Prompt Tuning for Text-Video Retrieval** *TCSVT24*  
**HAONAN ZHANG**, PENG-PENG ZENG, LIANLI GAO, JINGKUAN SONG, HENG TAO SHEN
- **MPT: Multi-grained Prompt Tuning for Text-Video Retrieval** *ACM MM24*  
**HAONAN ZHANG**, PENG-PENG ZENG, LIANLI GAO, JINGKUAN SONG, HENG TAO SHEN
- **SPT: Spatial pyramid transformer for image captioning** *TCSVT23*  
**HAONAN ZHANG**, PENG-PENG ZENG, LIANLI GAO, XINYU LYU, JINGKUAN SONG, HENG TAO SHEN
- **Depth-aware sparse transformer for video-language learning** *ACM MM23*  
**HAONAN ZHANG**, LIANLI GAO, PENG-PENG ZENG, ALAN HANJALIC, HENG TAO SHEN
- **Video Question Answering with Prior Knowledge and Object-sensitive Learning** *TIP22*  
PENG-PENG ZENG, **HAONAN ZHANG**, LIANLI GAO, JINGKUAN SONG, HENG TAO SHEN
- **S<sup>2</sup> Transformer for image captioning** *IJCAI22*  
PENG-PENG ZENG\*, **HAONAN ZHANG\*** (EQUAL CONTRIBUTION), JINGKUAN SONG, AND LIANLI GAO

## Honors & Awards

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- 2025 “Academic Newcomer” Graduate Student Honor Award, UESTC.
- 2024 Awarded CSC Scholarship, UESTC.
- 2024 National Scholarship, UESTC.
- 2024 Shenzhen Stock Exchange Scholarship, UESTC.
- 2023 First-class Scholarship, UESTC.
- 2023 Outstanding Graduate Teaching Assistant Award, UESTC.
- 2022 “Academic Youth” Graduate Student Honor Award, UESTC.

## Competitions

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- 2024 The 1st Place Winner in Attribute Recognition track in MMVRAC, ICME 2024.
- 2024 The 9-th Winner in Challenge of Black-box Adversarial Attacks on Vision Foundation Models in CVPR 2024.
- 2021 Top-4 on Multi-Modal Video Reasoning and Analyzing Competition, Track-1, ICCV 2021.

## Academic Service

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**Conference:** Program Committee of AAAI25, Reviewer for CVPR23,24,25, ICCV25, ICLR25, ECCV24, ACM MM, etc.

**Journal:** IEEE TIP, IEEE TCSVT, IEEE TMM, etc.

## Personal Projects

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**2023-Present** **[Awesome-Embodied-Robotics-and-Agent](#)**. A curated list of “Embodied robotics or agent with Vision-Language Models (VLMs) and Large Language Models (LLMs)” research, with **1.4K+ Github stars**.