Jinhui YE

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"Be the change that you want to see in the world"

Education

HKUST(The Hong Kong University of Science and Technology)　　　　　　　　　*Guangzhou, China*

Master of Artificial Intelligence　　　　　　　　　　　　　　　　　　　　　　*Sep. 2022 - April. 2025*

- Fully-funded Scholarship Award
- Advisors: Prof. Hui Xiong (Associate Vice-President) and Prof. Junwei Liang

SCUT(South China University of Technology)　　　　　　　　　　　　　　　*Guangzhou, China*

B.S. Major in Software Engineering and Minor in Finance　　　　　　　　　　　*Sep. 2018 - July. 2022*

- GPA & Rank: 3.79/4.00 & Top 5 %
- Awards: National Scholarship Award (Top 1%), National Inspirational Scholarship Award (Top 5%)

Internship

CMU Language Technologies Institute │ Visiting Student　　　　　　　　　　*Pittsburgh, PA, USA*

- Working on robotic memory design and retrieval.
- Ongoing project targeting IROS'25.　　　　　　　　　　　　　　　　　　　*Sep. 2024 - Present*
- Collaborating with **Prof. Yonatan Bisk**.

Stanford AI Lab │ Remote Intern　　　　　　　　　　　　　　　　　　　　*Stanford, CA, USA*

- Worked on visual searching.
- Rethinking temporal search and developing a visual searching benchmark (VL-Needling-Haystack).　　*Dec. 2023 - Oct. 2024*
- Submitted a paper to CVPR in collaboration with **Prof. Manling Li**, **Prof. Jiajun Wu**, and **Prof. Fei-Fei Li**.

Tencent AI Lab │ Summer Intern　　　　　　　　　　　　　　　　　　　　*Shenzhen, China*

- Proposed a research topic on sign language translation.
- Published three first-author papers [EACL'23, EMNLP'23, NeurIPS'24].　　　　*Aug. 2021 - Aug. 2022*
- Collaborated with Principal/Senior Researchers **Zhaopeng Tu**, **Wenxiang Jiao**, and **Xing Wang**.

Publications

T*: Re-thinking Temporal Search for Long-Form Video Understanding　　　　*CVPR Submission*

Jinhui Ye, Zihan Wang, Haosen Sun, Keshigeyan Chandrasegaran, Zane Durante, Cristobal Eyzaguirre, Yonatan Bisk, Juan Carlos Niebles, Ehsan Adeli, Li Fei-Fei, Jiajun Wu, Manling Li

SignCL: Improving Gloss-free Sign Language Translation by Reducing Representation Density　　*NeurIPS'24*

Jinhui Ye, Xing Wang, Wenxiang Jiao, Junwei Liang, Hui Xiong [paper]

Cross-modality Data Augmentation for End-to-End Sign Language Translation　　*EMNLP'23*

Jinhui Ye, Wenxiang Jiao, Xing Wang, Zhaopeng Tu, Hui Xiong [paper] [code]

Scaling Back-Translation with Domain Text Generation for Sign Language Gloss Translation　　*EACL'23*

Jinhui Ye, Wenxiang Jiao, Xing Wang, Zhaopeng Tu [paper] [code]

Aspect-Opinion Aware and Knowledge-Expansion Few Shot Cross-Domain Sentiment Classification　　*TAC'22*

Haopeng Ren, Yi Cai, Yushi Zeng, *Jinhui Ye*, Ho-fung Leung, Qing Li [paper] [code]

GeoDeformer: Geometric Deformable Transformer for Action Recognition　　*arXiv'23*

Jinhui Ye, Jiaming Zhou, Hui Xiong, Junwei Liang [paper]

Spatial-Temporal Alignment Network for Action Recognition　　*arXiv'23*

Jinhui Ye, Junwei Liang [paper]

Research Interesting

Looking ahead, my research will focus on leveraging the perception and reasoning capabilities of VLMs/LLMs in the physical world, e.g., robotic agents. Specifically, I am particularly interested in developing efficient methods to map human or LLM instructions into finite instruction sets that can effectively drive intelligent agents, fostering practical applications and advancing the field of Embodied AI.