



# XIANGYUE ZHANG

+86 1887-4623-697

[zxyHAVPR@gmail.com](mailto:zxyHAVPR@gmail.com)

[www.xiangyuezhang.com](http://www.xiangyuezhang.com)

## EDUCATION

**M.Sc. student in Computer Applications** | *Advised by: Prof.Zhigang Tu*  
HAVPR Lab, Wuhan University

Sep. 2023 – Now

**B.Eng. in Geomatics** | *Minor in Data Science and Big Data Technology*  
Central South University    **Major GPA:89.95/100**    **CET(4/6): 586/577**

Sep. 2019 – Jun. 2023

## RESEARCH

### **Robust 2D Skeleton Action Recognition via Decoupling and Distilling 3D Latent Features**

ECCV2024 (under review)

- A new 2D skeleton action recognition paradigm, named 2D<sup>3</sup>, is proposed for decoupling and distilling latent pose and view features with the assistance of 3D skeletons, enhancing the robustness of the 2D skeleton models.
- A 2D-to-3D supervision strategy is designed for explicitly decoupling the pose and view features in 3D latent space using 2D skeleton inputs.
- Two cross-attention modules are utilized to distill discriminative motion features while considering the uncertainties of viewpoint and depth.

### **Self-supervised learning based on aligned mask-motion in latent space.**

ICLR2025 (planned)

- We propose to learn 3D action representations through alignment of masked motion in latent space, which greatly alleviates the problem of insufficient contextual motion modeling in traditional masked self-reconstruction paradigms.
- We conduct extensive experiments on three previous benchmarks to verify the effectiveness of our method. Remarkably, with our proposed method, the vanilla transformer, for the first time, achieves the top-performing record for 3D action recognition.

## WORK EXPERIENCE

**Research Intern** | *Advised by: Prof.Anfeng Liu*

Central South University

May 2021 – Sep 2022

Changsha, China

- Aiming at studying a low-cost truth data acquisition method based on AI in crowd-intelligence perception network
- Develop a deep learning based framework to fill sparse matrix

## HONORS AND AWARDS

**National First Prize in Surveying and Mapping Innovation Development Design Contest**

Jul. 2022

Developed a platform for identifying ground object attributes based on deeplabv3+ model

**National First Prize in Surveying and Mapping Paper Contest**

Jul. 2022

Galileo three-frequency non-combined PPP phase fractional deviation estimation and ambiguity resolution

**First Prize in Asia and Pacific Mathematical Contest in Modeling**

Feb. 2022

Experiential Extensibility Model based on Saihanba

**College Students Service Outsourcing Innovation and Entrepreneurship Competition**

May. 2022

Second Prize