

Jiaxu Zhang (张嘉旭)

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I am a **Ph.D. student** advised by Prof. Deren Li and Prof. Zhigang Tu at LIESMARS, **Wuhan University**, China. Prior to this, I obtained my B.S. degree from **Southeast University** in 2020. I served as a **research intern at Tencent AI Lab** in 2023, collaborating with Dr. Shaoli Huang and Dr. Junwu Weng.

My research interests encompass deep learning, 3D computer vision, and computer graphics. Currently, my focus is on **motion generation, retargeting, and synthesis**. My overarching research objective is to contribute to the development of lifelike, intelligent, and interactive virtual avatars.

EDUCATION

Wuhan University

Master degree and Ph.D. Student. Computer Science and Technology

Wuhan, Hubei
Sep. 2020 – Now

- Leijun Scholarship 2023. 100,000 RMB. Top 10 in Wuhan University.
- National Scholarship 2022. 20,000 RMB. Top 3%.
- First-class Scholarship for Outstanding Students 2021. 8,000 RMB. Top 10%.

Southeast University

Bachelor of Science. Geographic Information Science

Nanjing, Jiangsu
Sep. 2016 – Jun. 2020

- GPA: 3.9/4.0, Avg Score: 91.9/100, Rank: 1/26.
- National Scholarship 2018. 10,000 RMB, Top 3%. Outstanding Graduates of Southeast University, 2020, Top 3%.
- Research assistant in associate Prof. Xiao Fu's lab.

SELECTED PUBLICATIONS

TapMo: Shape-aware Motion Generation of Skeleton-free Characters

Jiaxu Zhang, Shaoli Huang, Zhigang Tu, et. al.

The Twelfth International Conference on Learning Representations. (ICLR 2024)

Skinned Motion Retargeting with Residual Perception of Motion Semantics & Geometry

Jiaxu Zhang, Junwu Weng, Di Kang, et. al.

Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition. (CVPR 2023)

A Modular Neural Motion Retargeting System Decoupling Skeleton and Shape Perception

Jiaxu Zhang, Zhigang Tu, Junwu Weng, Junsong Yuan, Bo Du.

IEEE Transactions on Pattern Analysis and Machine Intelligence. 2024. (T-PAMI, IF: 24.314)

Zoom Transformer for Skeleton-based Group Activity Recognition

Jiaxu Zhang, Yifan Jia, Wei Xie, and Zhigang Tu.

IEEE Transactions on Circuits and Systems for Video Technology. 2022. (T-CSVT, IF: 8.400)

Joint-bone Fusion Graph Convolutional Network for Semi-supervised Skeleton Action Recognition

Zhigang Tu#, **Jiaxu Zhang**#, Hongyan Li, Yujin Chen, and Junsong Yuan.

IEEE Transactions on Multimedia. 2022. (T-MM, IF: 8.182)

EXPERIENCE

Tencent AI Lab Rhino-Bird Focused Research Program

Jul. 2022 – Jun. 2023

- Research topic: motion retargeting with consideration of self-contact and self-penetration.
- I am the primary contributor to this program, engaging in technical research, model design, and code implementation. The research paper has been accepted by CVPR 2023.

The 1st runner-up of ICCV 2021 MMVRAC challenge (Track 2 and Track 3)

Jul. 2021

- As the team leader of Track 2 (skeleton-based human action recognition), my responsibilities included data processing, model design and model implementation. In Track 3 (fisheye video-based action recognition), I played a key role as one of the main contributors in model implementation.
- I am a co-author of the paper “The Multi-Modal Video Reasoning and Analyzing Competition, *ICCVW, 2021.*”