

Jiaxu Zhang (张嘉旭)

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I am a **Ph.D. student** under the supervision of Prof. Deren Li and Prof. Zhigang Tu at **Wuhan University**. I am also a **Joint-Ph.D. student at Nanyang Technological University** supervised by Prof. Guosheng Lin. Currently, I am a research intern at **ByteDance**, focusing on **AIGC and MLLM**. Previously, I interned at **Tencent** from 2022 to 2024, and at **StepFun** from 2024 to 2025, where I was advised by Dr. Gang Yu. My research interest lies in computer vision and graphics, with a current focus on **Multimodal AIGC, Interactive 2D/3D animation, video/motion generation, retargeting, and recognition**. Expected graduation in June 2026.

EDUCATION

Nanyang Technological University

Joint-Ph.D. Student. Computer Science and Technology

Singapore

Feb. 2025 – Now

- Sponsored by China Scholarship Council (CSC).

Wuhan University

Ph.D. Student. Computer Science and Technology

Wuhan, Hubei

Sep. 2020 – Now

- NSFC Basic Research Project for Youth Scholars (¥300,000).
- Leijun Scholarship 2023. ¥100,000. Top 0.1%. National Scholarship 2022. ¥20,000. Top 3%.

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, Top 3%. Outstanding Graduates of Southeast University, 2020, Top 3%.

SELECTED PUBLICATIONS

Bridging Your Imagination with Audio-Video Generation via a Unified Director

Jiaxu Zhang, Tianshu Hu, Yuan Zhang, Zenan Li, Linjie Luo, Guosheng Lin, Xin Chen. (*ArXiv, 2025.12*)

DreamDance: Animating Character Art via Inpainting Stable Gaussian Worlds

Jiaxu Zhang, Xianfang Zeng, Xin Chen, Wei Zuo, Gang Yu, Guosheng Lin, Zhigang Tu. (*ArXiv, 2025.04*)

MikuDance: Animating Character Art with Mixed Motion Dynamics

Jiaxu Zhang, Xianfang Zeng, Xin Chen, Wei Zuo, Gang Yu, Zhigang Tu.

International Conference on Computer Vision (*ICCV 2025, Oral*)

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*)

Generative Motion Stylization of Cross-structure Characters within Canonical Motion Space

Jiaxu Zhang, Xin Chen, Gang Yu, Zhigang Tu.

Proceedings of the 32nd ACM International Conference on Multimedia (*ACM MM 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*)

Video & Multimodal
Generation

3D Animation &
3D Motion Synthesis

3D Motion
Recognition

EXPERIENCE

NSFC Basic Research Project for Youth Scholars (¥300,000)	Jan. 2025 – Dec. 2027
• Research topic: Generative Virtual Human Animation with Mixed Multi-Modality Guidance.	
Character Art Animation Project on Lipu app	Jun. 2024 – Dec. 2024
• We propose MikuDance, a diffusion-based pipeline incorporating mixed motion dynamics to animate stylized character art.	
• I am the first author of the paper, and the proposed model has been launched on the Lipu.	
Tencent AI Lab Rhino-Bird Research Program	Jul. 2022 – Jun. 2023
• Research topic: motion retargeting with consideration of self-contact and self-penetration. We propose an end-to-end model for motion semantics and geometry perception without the need of pairwise motion data. The research paper has been accepted by CVPR 2023 and T-PAMI 2024. I am the first author.	
• This project received the Tencent Technology Innovation Award.	
The 1st runner-up of ICCV 2021 MMVRAC challenge (Track 2 and Track 3)	Jul. 2021
• I am the team leader of Track 2 (skeleton-based human action recognition). We propose a multi-stream graph convolutional network for action recognition.	
• I am a co-author of the paper “The Multi-Modal Video Reasoning and Analyzing Competition, <i>ICCVW, 2021</i> .”	