

Junchao Huang

Ph.D. students, The Chinese University of Hong Kong (Shenzhen)

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RESEARCH INTERESTS

Computer Vision & Deep Learning: World Models, Generative Model (Video & 3D), Embodied Ai,

EDUCATION

The Chinese University of Hong Kong (Shenzhen)

Ph.D. in School of Data Science

September 2025 — Present

Advisor: Prof. Li Jiang

Tianjin University, Tianjin, China

Bachelor of Science: Mathematics and Applied Mathematics

Elite Program: "Qiushi" Class of the Mathematics Department

September 2021 — June 2025

GPA: 3.83/4.00 (91.17/100)

Ranking: 3/55

PUBLICATIONS

Huang, J., Ye, Z., Hu, X., He, T., Zhang, G., Shi, S., Bian, J., & Jiang, L. (2025). *LIVE: Long-horizon Interactive Video World Modelling*. (ICML 2026). <https://arxiv.org/pdf/2602.03747>

Zhang, G., Chen, Y., Xiang, X., **Huang, J.**, Wang, Z., & Jiang, L. (2026). *SymphoMotion: Joint Control of Camera Motion and Object Dynamics for Coherent Video Generation*. In Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2026).

Huang, J., Hu, X., Han, B., Shi, S., Tian, Z., He, T., & Jiang, L. (2025). *Memory Forcing: Spatio-Temporal Memory for Consistent Scene Generation on Minecraft*. Under Review. <https://arxiv.org/pdf/2510.03198>

Huang, J., Hu, X., Shi, S., Tian, Z., & Jiang, L. (2025). *Edit360: 2D Image Edits to 3D Assets from Any Angle*. In Proceedings of the IEEE/CVF International Conference on Computer Vision (ICCV 2025, Highlight). <https://arxiv.org/abs/2506.10507>

Ye, Y., **Huang, J.**, Zeng, X., Xia, J., & Zeng, W. (2025). *AKRMap: Adaptive Kernel Regression for Trustworthy Visualization of Cross-Modal Embeddings*. In Proceedings of the 42nd International Conference on Machine Learning (ICML 2025). <https://arxiv.org/abs/2505.14664>

INTERNSHIP EXPERIENCE

Microsoft Research Asia (MSRA)

Research Intern, Machine Learning Group

October 2025 — March 2026

Mentor: Tianyu He

Voyager Research, Didi Chuxing

Research Intern, AI Research

December 2024 — October 2025

Mentor: Shaoshuai Shi

AWARDS

Merit Fellowship (Ph.D. Scholarships at CUHK(Shenzhen))

2025 - 2030

First Class Scholarship (Scholarships from Tianjin University)

School year 2024

Student Role Models (Honorary Title from Tianjin University)

School year 2023

PetroChina Scholarship (Scholarships from Tianjin University)

School year 2022

Pacemaker to Merit Student (Honorary Title from Tianjin University)

School year 2022

Zhe-Beiyang Scholarship (Entrance Scholarship from Tianjin University)

School year 2021

SKILLS

Programming: Python, C++, PyTorch, R, LaTeX, Visual Basic

Software: PyCharm, Visual Studio Code, Mathematica, MATLAB, MS Office Suite

Languages: Chinese (Native), English (IELTS 6.5/9, CET-4: 584)

Interests: Piano (since age 4), Table Tennis, Cycling