

# Yaoyang Liu

Department of Computer Science and Engineering  
The Hong Kong University of Science and Technology – Clear Water Bay, Hong Kong  
✉ yliurj@connect.ust.hk • 🌐 lazysheeeeeep.github.io

## Education

### The Hong Kong University of Science and Technology (HKUST)

*PhD in Computer Science and Engineering*

Hong Kong

2025–Present

- Research Focus: Video Generation, Computer Vision
- Advisor: Prof. Long Chen

### University of Science and Technology of China (USTC)

*Bachelor of Engineering in Artificial Intelligence*

Hefei, China

2021–2025

- School of Information Science and Technology
- GPA: 4.13/4.3, Rank: 1/60

## Research Experience

### Advised by Prof. Jiebo Luo and Prof. Li Yuan

University of Rochester (Remote)

*Research on Multi-modal Large Language Models*

2024

- Participated in the ChronoMagic-Bench project as part of open-sora-plan
- Conducted data processing and benchmark development for metamorphic evaluation of text-to-time-lapse video generation
- Studied diffusion models and gained foundational knowledge in multi-modal large language models

## Internship Experience

### LightSpeed, Tencent

*Research Internship*

Shenzhen, China

2026.02–Present

Research on interactive video generation and world models.

## Publications

- **Yaoyang Liu**, Yuechen Zhang, Wenbo Li, Yufei Zhao, Rui Liu, Long Chen. "SwiftI2V: Efficient High-Resolution Image-to-Video Generation via Conditional Segment-wise Generation." *Preprint*, 2026.
- Yuechen Zhang\*, **Yaoyang Liu**\*, Bin Xia, Bohao Peng, Zexin Yan, Eric Lo, Jiaya Jia. "Magic Mirror: ID-Preserved Video Generation in Video Diffusion Transformers." *IEEE International Conference on Computer Vision (ICCV)*, 2025. (\*Equal contribution)
- Yiming Zhao, Yu Zeng, Yukun Qi, **Yaoyang Liu**, Lin Chen, Zehui Chen, Xikun Bao, Jie Zhao, Feng Zhao. "V2P-Bench: Evaluating Video-Language Understanding with Visual Prompts for Better Human-Model Interaction." *International Conference on Learning Representations (ICLR)*, 2025.
- Shenghai Yuan, Jinfa Huang, Yongqi Xu, **Yaoyang Liu**, Shaofeng Zhang, Yujun Shi, Ruijie Zhu, Xinhua Cheng, Jiebo Luo, Li Yuan. "ChronoMagic-Bench: A Benchmark for Metamorphic Evaluation of Text-to-Time-lapse Video Generation." *Advances in Neural Information Processing Systems (NeurIPS) Datasets and Benchmarks Track (Spotlight)*, 2024.

## Honors & Awards

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Hong Kong PhD Fellowship Scheme	2025
USTC Guo Moruo Scholarship	2025
Undergraduate National Scholarship	2023
Artificial Intelligence Talent Class Scholarship	2023
Robogame Robot Competition, First Prize	2023
Undergraduate National Scholarship	2022

## Technical Skills

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**ML/AI Frameworks:** PyTorch, Diffusion Models, Transformers

**Research Areas:** Video Generation, Multi-modal Large Language Models, Computer Vision