

Yuhao Zhang

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Research Interest

Computer Vision, Machine Learning

Education

Stanford University	2024/06 – 2024/10
Summer Research Internship	
NUS (National University of Singapore)	2024/01 – 2024/05
Computer Department Exchange	
HKUST (Hong Kong University of Science and Technology)	2021/09 – 2025/08 (Expected)
BSc in Computer Science & Mathematics	
• GPA: 3.967/4.3 (top 2%)	
• Major GPA: 4.045/4.3	

Selected Courses

COMP5212 PG level Machine Learning (A+)
MATH5411 Advanced Probability (A+)
COMP3711 Algorithm(A+)

Publication

DragVideo: Interactive Drag-style Video Editing (with Arxiv link)	
Yufan Deng*, Ruida Wang*, Yuhao ZHANG* , Chi-Keung Tang, Yu-Wing Tai	Under Review
* indicates equal contribution. The order of authorship was determined alphabetically	

Research Experience

DragVideo: Interactive Drag-style Video Editing	2023/07 – 2023/11
Advised by Prof. Chi-Keung Tang	HKUST
And Prof. Yu-Wing Tai	Dartmouth College
• Propose a novel method for drag-style Video Editing with a user-friendly interface	
• Use the 3D diffusion model and task-specific LoRA to solve the frame inconsistency in the editing process	
• Submitted to CVPR24	
• Chosen to be featured in HuggingFace’s “ Daily Paper ” within 48 hours after uploading	
Learning and Adversarial Style Augmentation for Unseen Domain Anomaly Detection	2022/09 – 2023/9
Advised by Prof. Hao Chen	HKUST
• Researched medical abnormal detection in the unseen domain.	
• Try to solve the domain shift problem by applying style augmentation and dual branch inference.	
Animate 3D object with auto Skinning and Rigging	2024/02 – Now
Advised by Prof. Jiajun Wu and Postdoc. Shangzhe Wu	Stanford University
• Researching on using auto rigging and skinning to animate 3D object	

Projects

Review on theoretical understanding of Transformers (with article link)	2023/09 – 2023/12
Project of Postgraduate Machine Learning Course	HKUST
• Research on the White-Box Transformer and its architecture	
• Look into several current research directions like Training Dynamics, Expressiveness, and theoretical explorations into Transformers applied in Computer Vision and Graph	
Research Intern in StatML Lab	2023/2 – 2023/4
Advised by Prof. Tong Zhang	HKUST
• Contribute to developing LLM-FT, a codebase for large language model finetuning and inference	

- Collect and preprocess academic data for large language model training

Selected Awards

- Dean's list for all semesters of study in HKUST
- Chern Class Talent Scholarship Award

Skills

PyTorch, LaTeX, Git, Markdown