

Yuhao Zhang

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Research Interest

Computer Vision, Machine Learning

Education

NUS (National University of Singapore) Computer Department Exchange	2024/01 – 2024/05 (Expected)
Hong Kong University of Science and Technology BSc in Computer Science & Mathematics <ul style="list-style-type: none">GPA: 3.967/4.3 (top 2%)Major GPA: 4.045/4.3	2021/09 – 2025/08 (Expected)

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
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Research Experience

DragVideo: Interactive Drag-style Video Editing Advised by Prof. Chi-Keung Tang And Prof. Yu-Wing Tai <ul style="list-style-type: none">Propose a novel method for drag-style Video Editing with a user-friendly interfaceUse the 3D diffusion model and task-specific LoRA to solve the frame inconsistency in the editing processSubmitted to CVPR24	2023/07 – 2023/11 HKUST Dartmouth College
Learning and Adversarial Style Augmentation for Unseen Domain Anomaly Detection Advised by Prof. Hao Chen <ul style="list-style-type: none">Researched medical abnormal detection in the unseen domain.Try to solve the domain shift problem by applying style augmentation and dual branch inference.	2022/09 – 2023.9 HKUST

Projects

Review on theoretical understanding of Transformers Project of Postgraduate Machine Learning Course <ul style="list-style-type: none">Research on the White-Box Transformer and its architectureLook into several current research directions like Training Dynamics, Expressiveness, and theoretical explorations into Transformers applied in Computer Vision and Graph	2023/09 – Ongoing HKUST
Research Intern in StatML Lab Advised by Prof. Tong Zhang <ul style="list-style-type: none">Contribute to developing LLM-FT, a codebase for large language model finetuning and inferenceCollect and preprocess academic data for large language model training	2023/2 – 2023/4 HKUST

Selected Awards

- Dean’s list for all semesters of study in HKUST

Skills

PyTorch, LaTeX, Git, Markdown