

Yuhao Zhang

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Research Interest

Computer Vision, Graphics

Education

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| Stanford University Summer Research Internship | 2024/06 – now |
| NUS (National University of Singapore) Computer Department Exchange | 2024/01 – 2024/05 |
| HKUST (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

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| DragVideo: Interactive Drag-style Video Editing (with Arxiv link) Yufan Deng*, Ruida Wang*, Yuhao ZHANG* , Chi-Keung Tang, Yu-Wing Tai | ECCV2024 |
| * indicates equal contribution. The order of authorship was determined alphabetically | |

Research Experience

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| DragVideo: Interactive Drag-style Video Editing Advised by Prof. Chi-Keung Tang And Prof. Yu-Wing Tai | 2023/07 – 2023/11 HKUST Dartmouth College |
| <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 processAccept by ECCV24Chosen to be featured in HuggingFace’s “Daily Paper” within 48 hours after uploading | |
| Learning and Adversarial Style Augmentation for Unseen Domain Anomaly Detection Advised by Prof. Hao Chen | 2022/09 – 2023/9 HKUST |
| <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. | |
| Animate 3D object with auto Skinning and Rigging Advised by Prof. Jiajun Wu and Postdoc. Shangzhe Wu | 2024/03 – Now Stanford University |
| <ul style="list-style-type: none">Researching on using auto rigging and skinning to animate 3D objectBuild a large dataset with Rigging and Skinning based on Objaverse XL | |

Projects

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| Review on theoretical understanding of Transformers (with link) Project of Postgraduate Machine Learning Course | 2023/09 – 2023/12 HKUST |
| <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 | |
| Research Intern in StatML Lab Advised by Prof. Tong Zhang | 2023/2 – 2023/5 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