

# Yuhao Zhang

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## Research Interest

Computer Vision, Machine Learning

## Education

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

## Selected Courses

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

## Publication

<b><u>DragVideo: Interactive Drag-style Video Editing</u></b> (with Arxiv link) Yufan Deng*, Ruida Wang*, Yuhao ZHANG*, Chi-Keung Tang, Yu-Wing Tai	Under Review
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## Research Experience

<b>DragVideo: Interactive Drag-style Video Editing</b> Advised by <u>Prof. Chi-Keung Tang</u> And <u>Prof. Yu-Wing Tai</u> <ul style="list-style-type: none"><li>Propose a novel method for drag-style Video Editing with a user-friendly interface</li><li>Use the 3D diffusion model and task-specific LoRA to solve the frame inconsistency in the editing process</li><li>Submitted to <b>CVPR24</b></li></ul>	2023/07 – 2023/11 HKUST Dartmouth College
<b>Learning and Adversarial Style Augmentation for Unseen Domain Anomaly Detection</b> Advised by <u>Prof. Hao Chen</u> <ul style="list-style-type: none"><li>Researched medical abnormal detection in the unseen domain.</li><li>Try to solve the domain shift problem by applying style augmentation and dual branch inference.</li></ul>	2022/09 – 2023/9 HKUST

## Projects

<b>Review on theoretical understanding of Transformers</b> Project of Postgraduate Machine Learning Course <ul style="list-style-type: none"><li>Research on the White-Box Transformer and its architecture</li><li>Look into several current research directions like Training Dynamics, Expressiveness, and theoretical explorations into Transformers applied in Computer Vision and Graph</li></ul>	2023/09 – 2023/12 HKUST
<b>Research Intern in StatML Lab</b> Advised by <u>Prof. Tong Zhang</u> <ul style="list-style-type: none"><li>Contribute to developing LLM-FT, a codebase for large language model finetuning and inference</li><li>Collect and preprocess academic data for large language model training</li></ul>	2023/2 – 2023/4 HKUST

## Selected Awards

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

## Skills

PyTorch, LaTeX, Git, Markdown