

Yufan Deng

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EDUCATION

- **Hong Kong University of Science and Technology (HKUST)** 09/2021 - Present
BEng in Computer Science, Minor in Mathematics Hong Kong
 - GPA: 4.19/4.30, Rank: 1 out of 136
 - Graduate-level Course: COMP5214 Advanced Deep Learning Architecture, COMP 5212 Machine Learning, COMP6211E Optimization for Machine Learning
- **Stanford University** 06/2024 - 09/2024
Summer Research Stanford, CA
- **École Polytechnique Fédérale de Lausanne (EPFL)** 02/2024 - 06/2024
Exchange Lausanne, Switzerland
 - GPA: 5.5/6.0
 - Graduate-level Course: CS552 Modern Natural Language Processing
- **Shenzhen Middle School** 09/2018 - 06/2021
High School Shenzhen, China
 - GPA: 4.32/4.45

PUBLICATIONS

* DENOTES EQUAL CONTRIBUTION

- [1] Yufan Deng*, Ruida Wang*, Yuhao Zhang*, Yu-Wing Tai, Chi-Keung Tang. "**DragVideo: Interactive Drag-style Video Editing**". In: *European Conference on Computer Vision (ECCV)*. 2024.
- [2] Yufan Deng*, Yuhao Zhang*, Chen Geng, Shangzhe Wu, Jiajun Wu. "**Anymate: A Dataset and Baselines for Learning 3D Object Rigging**". Under Review: *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*. 2025.

RESEARCH EXPERIENCE

- **Anymate: A Dataset and Baselines for Learning 3D Object Rigging** 06/2024 - 11/2024
Stanford Vision and Learning Lab Stanford, CA
Advisor: Prof. Jiajun Wu (Stanford), Prof. Shangzhe Wu (Cambridge)
 - Curated *Anymate Dataset*, a large-scale dataset of 178K 3D assets with rigging and skinning information—over 50 times larger than existing datasets.
 - Developed *Anymate Model*, a scalable transformer-based framework to learn auto-rigging from the large-scale dataset.
 - Significantly outperformed existing methods, achieved accurate bone skeletons and skinning weights for realistic animations, and submitted to CVPR2025.
- **DragVideo: Interactive Drag-style Video Editing** 06/2023 - 02/2024
Hong Kong University of Science and Technology Hong Kong
Advisor: Prof. Chi-Keung Tang (HKUST), Prof. Yu-Wing Tai (Dartmouth)
 - Proposed *DragVideo*, the first framework lifting the drag-style editing from 2D images to videos.
 - Addressed video quality issues by employing Low-Rank Adaptation (LoRA) and Mutual Self-Attention mechanism.
 - Developed a web UI, conducted analytical experiments, and published in ECCV2024.

HONORS AND AWARDS

- **HKSAR Government Scholarship** 09/2022 - 2025
- **Tin Ka Ping Scholarship (Exchange)** 05/2024
- **HKUST Alumni Endowment Fund High Flyers Program Scholarship** 09/2023
- **Tse Cheuk Ng Tai Scholarship** 08/2023
- **Dean's List** for 5/5 semester 01/2022-2024
- **First Runner-Up** in Tencent Rhino-Bird High School Elite Training Program 12/2020

ADDITIONAL RELEVANT EXPERIENCE

- **Research Assistant**
Visual Intelligence Lab, HKUST [🔗](#)

◦ Assisted in field survey for AI Generated Content project.

◦ Experimented with various latest generative models for image, video, audio, and speech.

03/2024 - 06/2024
Remote
- **Teaching Assistant**
COMP2211 (Exploring Artificial Intelligence), HKUST

◦ Prepared three lab assignments for KMeans, MLP, and CNN.

07/2023 - 08/2023
Hong Kong
- **Research Assistant**
Smart Lab, HKUST [🔗](#)

◦ Assisted projects related to deep learning for medical images, specifically the fundus image.

◦ Focused on synthetic data augmentation, quality-aware model, and multi-task model.

06/2022 - 05/2023
Hong Kong

COURSE PROJECTS

- **EduGPT - DPO is all you need** [🔗](#)
CS552 Modern Natural Language Processing Project at EPFL

02/2024 - 05/2024
Lausanne, Switzerland

• **DiffAdv: Generating an Adversarial Example for Any Given Image Using Diffusion Models** [🔗](#)
COMP5212 Machine Learning Project at HKUST

09/2023 - 12/2023
Hong Kong

• **Music Generation Conditioned on Emotion** [🔗](#)
COMP5214 Advanced Deep Learning Architecture Project at HKUST

02/2023 - 06/2023
Hong Kong

SKILLS

- **Programming Languages:** Python (Skilled), Java (Skilled), C++ (Skilled), PHP (Basic), SQL (Basic), C (Basic)
 - **Deep Learning Toolkits:** Pytorch, Hugging Face Libraries
 - **Miscellaneous:** LaTeX, Linux, Git, Matlab, MS Office, Adobe

ADDITIONAL INFORMATION

Languages: Mandarin (Native), English (Proficient)
Interests: Piano performance, Frisbee, Badminton

LAST UPDATE: December 11, 2024