

# 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: 4.09/4.30
  - 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**". In: *ACM Special Interest Group on Computer Graphics (SIGGRAPH)*. 2025.

## RESEARCH EXPERIENCE

- **Anymate: A Dataset and Baselines for Learning 3D Object Rigging** [🔗](#) 06/2024 - 1/2025  
*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 accepted by SIGGRAPH2025.
- **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 semesters 01/2022-2024

ADDITIONAL RELEVANT EXPERIENCE

- **Research Assistant**

Visual Intelligence Lab, HKUST [🔗](#)

Advisor: Prof. Qifeng Chen (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 [🔗](#)

Advisor: Prof. Hao Chen (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