Xiuyuan Yu

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RESEARCH INTERESTS

4D Scene Reconstruction, Dynamic 3D Computer Vision, Neural Rendering (e.g., NeRF, 3D/4D Gaussian Splatting), and Deep Learning

EDUCATION

The Chinese University of Hong Kong, Hong Kong SAR *Aug 2023 — Present*

B.Eng. in Artificial Intelligence: Systems and Technologies, ELITE Stream

- CGPA: 3.846/4.0, MGPA: 3.950/4.0
- Outgoing Exchange Student
  - University of Illinois Urbana-Champaign, USA, Aug 2025 — Dec 2025
  - Awarded Yasumoto International Exchange Scholarship
- Relevant courses: Digital Signal Processing, Applied Machine Learning, Image Processing and Visual Understanding, Multimedia Coding and Processing, Computer Graphics

SKILLS

Programming Languages: Python (Proficient), C/C++ (Familiar), CUDA (Basic)
Deep Learning Frameworks: Pytorch (Proficient), JAX/Tensorflow (Basics)
Computer Vision & 3D Libraries: OpenCV, COLMAP, Open3D, Kaolin
Development & Tools: Git, Linux, Latex, Docker

HONORS AND AWARDS

Silver Award for Outstanding Academic Performance (**Ranked 1st** in major), *Department* *2025*
Dean's List, *Faculty of Engineering* *2023, 2024*
ELITE Stream Scholarship, *Faculty of Engineering* *2024, 2025*
Honors at Entrance (**Ranked 329th** in Gaokao, Guangdong), *University* *2023*
Yasumoto International Exchange Scholarship, *Universtiy* *2025*

RESEARCH EXPERIENCE

Research Assistant *Hong Kong*

MMLab, The Chinese University of Hong Kong *Apr 2025 — Jun 2025*

- Advisor: Prof. Tianfan Xue
- Topic: 4D reconstruction
- Responsible for the creation of the training dataset for a diffusion-based refinement model by reconstructing dynamic scenes with 4D Gaussian Splatting (4DGS). The synthesized 4D sequences were pivotal for enhancing the model's ability to improve temporal coherence and spatial detail.

PUBLICATIONS

- Chen, Y., Guo, S., Yang, T., Ding, L., **Yu, X.**, Gu, J., & Xue, T. (2025). 4DSloMo: 4D Reconstruction for High Speed Scene with Asynchronous Capture. *ACM SIGGRAPH Asia*.