

# Xiuyuan Yu

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## RESEARCH INTERESTS

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3D Reconstruction, Video Generation, Computer Vision, and Deep Learning

## EDUCATION

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**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: 3.966/4.0
- 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

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**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

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

## RESEARCH EXPERIENCE

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**Research Assistant & Research Intern.**

Hong Kong

*MMLab, The Chinese University of Hong Kong*

Apr 2025 — Present

- Advisor: Prof. Tianfan Xue
- Topic: 3D/4D reconstruction and video generation
- Creating the training dataset for a diffusion-based refinement model by reconstructing dynamic scenes with 4D Gaussian Splatting (4DGS).
- Currently researching on a global context aware architecture of video generation model, enabling close-up novel view synthesis.

## PUBLICATIONS

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- 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*.