

EDUCATION

- **The Chinese University of Hong Kong** Hong Kong SAR, China
 Ph.D. candidate in Computer Science and Engineering. Supervisor: Prof. Qiang Xu 2022 – 2026 (Expected)
- **Tongji University** Shanghai, China
 B.S. in Computer Science; Minor Degree in Mathematics and Applied Mathematics;
 GPA: 4.85/5.00. Top 1%. 2018 – 2022

PUBLICATIONS

(* denotes equal contribution)

- **MiraData: A Large-Scale Video Dataset with Long Durations and Structured Captions**
Xuan Ju*, Yiming Gao*, Zhaoyang Zhang*, Ziyang Yuan, Xintao Wang, Ailing Zeng, Yu Xiong, Qiang Xu, Ying Shan
 Under Review.
- **BrushNet: A Plug-and-Play Image Inpainting Model with Decomposed Dual-Branch Diffusion**
Xuan Ju, Xian Liu, Xintao Wang, Yuxuan Bian, Ying Shan, Qiang Xu
 Under Review. ([Github Star 1K+](#))
- **Multi-Patch Prediction: Adapting LLMs for Time Series Representation Learning**
 Yuxuan Bian*, Xuan Ju*, Jiangtong Li, Zhijian Xu, Dawei Cheng, Qiang Xu
 International Conference on Machine Learning (ICML), 2024.
- **PnP Inversion: Boosting Diffusion-based Editing with 3 Lines of Code**
Xuan Ju, Ailing Zeng, Yuxuan Bian, Shaoteng Liu, Qiang Xu
 International Conference on Learning Representations (ICLR), 2024.
- **HumanSD: A Native Skeleton-Guided Diffusion Model for Human Image Generation**
Xuan Ju*, Ailing Zeng*, Chenchen Zhao*, Jianan Wang, Lei Zhang, Qiang Xu
 Proceedings of the IEEE International Conference on Computer Vision (ICCV), 2023. ([Oral Presentation](#))
- **Human-Art: A Versatile Human-Centric Dataset Bridging Natural and Artificial Scenes**
Xuan Ju*, Ailing Zeng*, Jianan Wang, Qiang Xu, Lei Zhang
 IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2023.
- **DeciWatch: A Simple Baseline for 10x Efficient 2D and 3D Pose Estimation**
 Ailing Zeng, Xuan Ju, Lei Yang, Ruiyuan Gao, Xizhou Zhu, Bo Dai, Qiang Xu
 European Conference on Computer Vision (ECCV), 2022.
- **Smoothnet: A plug-and-play network for refining human poses in videos**
 Ailing Zeng, Lei Yang, Xuan Ju, Jiefeng Li, Jianyi Wang, Qiang Xu
 European Conference on Computer Vision (ECCV), 2022.

WORKING EXPERIENCE

- **Foundation Group, Gen AI, Meta** California, America
 Research Intern. Supervisor: Kevin Chih-Yao Ma
 Topic: Video Generation Jul. 2024 - Dec. 2024
- **Tencent ARC Laboratory** Shenzhen, China
 Research Intern. Supervisor: Ying Shan, Xintao Wang
 Topic: Image Inpainting, Video Generation Oct. 2023 - Jun. 2024
- **International Digital Economy Academy (IDEA) CVR Laboratory** Shenzhen, China
 Research Intern. Supervisor: Lei Zhang, Ailing Zeng
 Topic: Human-Centric Image Generation Jun. 2022 - Sep. 2023
- **SenseTime Research X-Lab** Shenzhen, China
 Research Intern. Supervisor: Lei Yang
 Topic: Human Pose Estimation Dec. 2021 - May. 2022

MISCELLANEOUS

- **Research Interests:** Computer Vision, Generative Modeling, Image Generation, Human Pose Estimation
- **Conference Reviewer:** ECCV (2024), IJCV (2024), CVPR (2024), ICCV (2023), NeurIPS (2023).

SELECTED HONORS & AWARDS

- **National Scholarship** 2020, 2021
- **QiDi Scholarship** 2022
- **Outstanding Graduate, Shanghai Province** 2022
- **First Prize in “Challenge Cup” National College Students Contest** 2022