

## 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

## SELECTED 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  
Conference on Neural Information Processing Systems (**NeurIPS**), 2024
- **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  
European Conference on Computer Vision (**ECCV**), 2024 (**Github Star 1.3K**)
- **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.
- **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.

## WORKING EXPERIENCE

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

## MISCELLANEOUS

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