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EDUCATION

The Chinese University of Hong Kong

Hong Kong SAR, China

Ph.D. candidate in Computer Science and Engineering (CSE)
 Supervisor: Prof. Qiang Xu

2022 - 2026

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)

- FullDiT: Video Generative Foundation Models with Multimodal Control via Full Attention Xuan Ju, Weicai Ye, Quande Liu, Qiulin Wang, Xintao Wang, Pengfei Wan, Di Zhang, Kun Gai, Qiang Xu Under Review
- Teletubbies: On Design Choices of Scaling Autoregressive Models for Image Generation Yushi Hu*, Xuan Ju*, Xu Ma*, Yujun Shi*, Xiaoliang Dai, Peizhao Zhang, Jialiang Wang, Ji Hou, Yen-Cheng Liu, Haochen Zhang, Tao Xu, Felix Juefei-Xu, Ching-Yao Chuang, Zecheng He, Junjiao Tian, Tingbo Hou, Peter Vajda, Qiang Xu, Yun Fu, Vincent Y. F. Tan, Mari Ostendorf, Noah A. Smith, Zijian He, Sam Tsai, Kunpeng Li, Chih-Yao Ma 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 European Conference on Computer Vision (ECCV), 2024 (Github Star 1.5K)
- PnP Inversion: Boosting Diffusion-based Editing with 3 Lines of Code
 <u>Xuan Ju</u>, 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)
- 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

• Adobe Research Research Intern. Supervisor: Soo Ye Kim, Zhe Lin Topic: Multimodal Models, Video Generation	California, America Mar. 2025 - Sep. 2025
Kling, Kuaishou Research Intern. Supervisor: Weicai Ye, Xintao Wang Topic: Multimodal Models, Video Generation	Shenzhen, China Dec. 2024 - Mar. 2025
• Llama Applied, Gen AI, Meta Research Intern. Supervisor: Kevin Chih-Yao Ma Topic: Working on Llama4, Multimodal Models, Image Generation	California, America Jul. 2024 - Dec. 2024
• Tencent ARC Laboratory Research Intern. Supervisor: Ying Shan, Xintao Wang Topic: Image Inpainting, Video Generation	Shenzhen, China Oct. 2023 - Jun. 2024
• International Digital Economy Academy (IDEA) CVR Research Intern. Supervisor: Lei Zhang, Ailing Zeng Topic: Human-Centric Image Generation	Shenzhen, China Jun. 2022 - Sep. 2023
SenseTime Research X-Lab Research Intern. Supervisor: Lei Yang Topic: Human Pose Estimation	Shenzhen, China Dec. 2021 - May. 2022

Miscellaneous

- Research Interests: My research targets to build multi-modal agents with image/video generation and editing ability on scalable big data. Specifically, my works encompass multimodal image/video generation, large-scale dataset construction, and controllable image generation:
 - 1) Multimodal Image/Video Generation: Llama4, Teletubbies, FullDiT;
 - 2) Large-scale Image/Video Datasets: MiraData, Human-Art;
 - 3) Controllable Image Generation Models: BrushNet, PnP Inversion, HumanSD.
- Conference/Journal Reviewer: CVPR, ECCV, ICCV, ICLR, NeurIPS, ICML, TPAMI, IJCV, etc.
- Workshop Organization: 2nd Workshop on Efficient and On-Device Generation (EDGE), CVPR

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