

XING Jinbo, Jerome

1026, Ho Sin-Hang Engineering Building, CUHK, Sha Tin, New Territories

Phone: (+86)15771501030

Email: JinboXING@link.cuhk.edu.hk



EDUCATION

The Chinese University of Hong Kong (CUHK)

Hong Kong, China

Ph.D. in Computer Science and Engineering

Sept. 2021 – Present

- Supervisor: [Tien-Tsin Wong](#) Anticipated graduation: August 2025 Cumulative GPA: 3.91/4.0

The Chinese University of Hong Kong (CUHK)

Hong Kong, China

M.Sc. in Computer Science

Sept. 2020 – Jun. 2021

- Supervisor: [Tien-Tsin Wong](#) Cumulative GPA: 3.76/4.0

The Chinese University of Hong Kong (CUHK)

Hong Kong, China

B.Sc. in Computer Science (ELITE Stream)








Sept. 2016 – Jun. 2020

- Cumulative GPA: 3.6/4.0, Major GPA: 3.7/4.0, Honor Class: First Honor




RESEARCH INTERESTS

Generative AI (controllable image/video generation)

REPRESENTATIVE WORKS IN GENERATIVE AI

- [1]. DynamiCrafter: Animating Open-domain Images with Video Diffusion Priors   2k (citation: 42)
Jinbo Xing, Menghan Xia, Yong Zhang, Haoxin Chen, Wangbo Yu, Hanyuan Liu, Xintao Wang, Tien-Tsin Wong, and Ying Shan
European Conference on Computer Vision (ECCV), 2024
- [2]. VideoCrafter1: Open Diffusion Models for High-Quality Video Generation   4.2k (citation: 73)
Haoxin Chen*, Menghan Xia*, Yingqing He*, Yong Zhang*, Xiaodong Cun*, Shaoshu Yang, **Jinbo Xing**, Yaofang Liu, Qifeng Chen, Xintao Wang, Chao Weng, and Ying Shan
- [3]. Make-Your-Video: Customized Video Generation Using Textual and Structural Guidance  (citation: 39)
Jinbo Xing, Menghan Xia, Yuxin Liu, Yuechen Zhang, Yong Zhang, Yingqing He, Hanyuan Liu, Haoxin Chen, Xiaodong Cun, Xintao Wang, Ying Shan, and Tien-Tsin Wong
IEEE Transactions on Visualization and Computer Graphics (TVCG), 2024
- [4]. CodeTalker: Speech-Driven 3D Facial Animation with Discrete Motion Prior   493 (citation: 76)
Jinbo Xing, Menghan Xia, Yuechen Zhang, Xiaodong Cun, Jue Wang, and Tien-Tsin Wong
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2023

OTHER PUBLICATIONS

- [1]. Scale-arbitrary Invertible Image Downscaling 
Jinbo Xing*, Wenbo Hu*, Menghan Xia, and Tien-Tsin Wong
IEEE Transactions on Image Processing (TIP), 2023
- [2]. Flow-aware synthesis: A generic motion model for video frame interpolation 
Jinbo Xing*, Wenbo Hu*, Yuechen Zhang, and Tien-Tsin Wong
Computational Visual Media Journal (CVM), 2021 (JCR-Q1)
- [3]. RIVAL: Real-World Image Variation by Aligning Diffusion Inversion Chain 
Yuechen Zhang, **Jinbo Xing**, Eric Lo, and Jiaya Jia
Neural Information Processing Systems (NeurIPS), spotlight, 2023

- [4]. Ref-NPR: Reference-Based Non-Photorealistic Radiance Fields ^{PDF}
Yuechen Zhang, Zexin He, **Jinbo Xing**, Xufeng Yao, Jiaya Jia
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2023
- [5]. Unstructured Knowledge Access in Task-oriented Dialog Modeling using Language Inference, Knowledge Retrieval and Knowledge-Integrative Response Generation ^{PDF}
Mudit Chaudhary, Borislav Dzodzo, Sida Huang, Chun Hei Lo, Mingzhi Lyu, Lun Yiu Nie, **Jinbo Xing**, Tianhua Zhang, Xiaoying Zhang, Jingyan Zhou, Hong Cheng, Wai Lam, and Helen Meng
AAAI Conference on Artificial Intelligence Workshop Program (AAAIW), DSTC9, 2021.

OTHER PREPRINTS

- [1]. Video Colorization with Pre-trained Text-to-Image Diffusion Models ^{PDF}
Hanyuan Liu, Minshan Xie, **Jinbo Xing**, Chengze Li, and Tien-Tsin Wong
- [2]. Improved Diffusion-based Image Colorization via Piggybacked Models ^{PDF}
Hanyuan Liu, **Jinbo Xing**, Minshan Xie, Chengze Li, and Tien-Tsin Wong
- [3]. MagicStick: Controllable Video Editing via Control Handle Transformations
Yue Ma, Xiaodong Cun, **Jinbo Xing**, Xiang Lyu, Yingqing He, Chenyang Qi, Yabo Zhang, Bowei Jia, Chubin Chen, and Qifeng Chen
- [4]. Animate-A-Story: Storytelling with Retrieval-Augmented Video Generation ^{PDF}
Yingqing He*, Menghan Xia*, Haoxin Chen*, Xiaodong Cun, Yuan Gong, **Jinbo Xing**, Yong Zhang, Xintao Wang, Chao Weng, Ying Shan, and Qifeng Chen
- [5]. StyleCrafter: Enhancing Stylized Text-to-Video Generation with Style Adapter ^{PDF}
Gongye Liu, Menghan Xia, Yong Zhang, Haoxin Chen, **Jinbo Xing**, Xintao Wang, Yujiu Yang, and Ying Shan

WORK EXPERIENCE

Adobe Research

Research Scientist Intern (Incoming)

San Jose, CA, U.S.

Jul. 2024 – Dec. 2024

- Supervised by: Dr. [Long, Mai](#)
- Will conduct research on controllable video generation

Tencent AI Lab

Research Intern

Shenzhen, China

Jul. 2022 – present

- Supervised by: Dr. [Menghan, Xia](#)
- Cooperating with team members, conducting research on speech-driven 3D facial animation and text-to-video/image-to-video generation, and processing video data on a scale of millions for dataset preparation.

Stanley Ho Big Data Decision Analytics Research Centre, CUHK

Research Assistant

Hong Kong, China

May 2020 – Jun. 2021

- Supervised by: Prof. [Meiling, Meng](#)
- Developed modularized code for research projects and conducted research on retrieval-based response generation.

AWARDS AND SCHOLARSHIPS

- Postgraduate Studentship 2021
- Distinguished Academic Performance Scholarship 2020
- Entrance Scholarship of MSc Programme in Computer Science 2020

- Dean's List of Faculty of Engineering 2020, 2019, 2016
- ELITE Stream Student Scholarship 2019, 2018
- Computer Science scholarship 2016
- Faculty of Engineering Admission Scholarship 2016
- S.H. Ho College Matriculation Scholarships for Academic Excellence (Mainland) 2016
- Full Scholarship for Undergraduate Students (Mainland) 2016

TEACHING ASSISTANT

- CSCI 3290 Computational Imaging and Vision 2023-2024
- CSCI 5390 Advanced GPU Programming 2023-2024
- CSCI 3280 Introduction to Multimedia Systems 2022-2023, 2021-2022
- ENGG 1110 Problem Solving by Programming 2021-2022

ACADEMIC SERVICES

TVCJ, IEEE TVCG, IJCV, ACM CSUR,	Journal Review
ECCV 2024, MM 2024, SIGGRAPH Asia 2024	Conference Review