

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   2.7k (citation: 125)
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, **Oral (2.3%)**, #14 most cited in 2387 papers
- [2]. ToonCrafter: Generative Cartoon Interpolation   5.4k
Jinbo Xing, Hanyuan Liu, Menghan Xia, Yong Zhang, Xintao Wang, Ying Shan, and Tien-Tsin Wong
ACM Transactions on Graphics (SIGGRAPH Asia issue, **Top 5% rating**), 2024 (CCF-A)
Selected in Technical Papers Program Trailer (2.3%, 6/265)
- [3]. VideoCrafter1: Open Diffusion Models for High-Quality Video Generation   4.6k (citation: 188)
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
- [4]. Make-Your-Video: Customized Video Generation Using Textual and Structural Guidance  (citation: 54)
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 (CCF-A)
- [5]. ViewCrafter: Taming Video Diffusion Models for High-fidelity Novel View Synthesis   1.1k
Wangbo Yu*, **Jinbo Xing***, Li Yuan*, Wenbo Hu, Xiaoyu Li, Zhipeng Huang, Xiangjun Gao, Tien-Tsin Wong, Ying Shan, Yonghong Tian
- [6]. CodeTalker: Speech-Driven 3D Facial Animation with Discrete Motion Prior   525 (citation: 138)
Jinbo Xing, Menghan Xia, Yuechen Zhang, Xiaodong Cun, Jue Wang, and Tien-Tsin Wong
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2023 (CCF-A)

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 (CCF-A)

- [2]. Flow-aware synthesis: A generic motion model for video frame interpolation ^{PDF}
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 ^{PDF}
 Yuechen Zhang, **Jinbo Xing**, Eric Lo, and Jiaya Jia
 Neural Information Processing Systems (NeurIPS), spotlight, 2023 (CCF-A)
- [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 (CCF-A)
- [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
 ACM Transactions on Graphics (SIGGRAPH Asia issue), 2024 (CCF-A)
- [6]. MagicStick: Controllable Video Editing via Control Handle Transformations
 Yue Ma, Xiaodong Cun, Sen Liang, **Jinbo Xing**, Yingqing He, Chenyang Qi, Siran Chen, and Qifeng Chen
 IEEE/CVF Winter Conference on Applications of Computer Vision (WACV), 2025
- [7]. 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
 European Conference on Computer Vision Workshop (ECCVW), AI4VA, 2024
- [8]. Unstructured Knowledge Access in Task-oriented Dialog Modeling using Language Inference, Knowledge Retrieval and Knowledge-Integrative Response Generation
 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

WORK EXPERIENCE

Adobe Research  Adobe

Research Scientist Intern

San Jose, CA, U.S.

Jul. 2024 – Jan. 2025

- Supervised by: Dr. [Long, Mai](#)
- Conducting research on controllable video generation / dataset construction for **Firefly GenExtend/I2V**.

Tencent AI Lab 

Research Intern

Shenzhen, China

Jul. 2022 – Jul. 2024

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

Stanley Ho Big Data Decision Analytics Research Centre, CUHK

Hong Kong, China

Research Assistant

May 2020 – Jun. 2021

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

Huawei Technologies Co. Ltd. (Cloud & Enterprise Intelligence)

Shenzhen China

Algorithm Engineer Intern

Jun. 2019 – Aug. 2019

- Developed video content analysis algorithm and reference-free image blurriness assessment

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

COMPETITIONS

• AI X Drones Joint Universities Competition (Hong Kong), Silver medal	2019
• HUAWEI CLOUD AI Developer Contest (Hong Kong), Bronze medal	2019
• Tencent WeChat Mini-program Development Competition, Third prize	2019

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

IEEE TPAMI, TVCJ, IEEE TVCG, IJCV, ACM CSUR, IEEE TMM	Journal Review
ECCV 2024, MM 2024, SIGGRAPH Asia 2024, ICLR 2025, CVPR 2025	Conference Review