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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

3D Facial Animation, Generative AI (image/video generation)

PUBLICATIONS

- [1]. CodeTalker: Speech-Driven 3D Facial Animation with Discrete Motion Prior 
Jinbo Xing, Menghan Xia, Yuechen Zhang, Xiaodong Cun, Jue Wang, and Tien-Tsin Wong
IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2023.
- [2]. Scale-arbitrary Invertible Image Downscaling 
Jinbo Xing*, Wenbo Hu*, Menghan Xia, and Tien-Tsin Wong
IEEE Transactions on Image Processing (**TIP**), 2023.
- [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 
Yuechen Zhang, Zexin He, **Jinbo Xing**, Xufeng Yao, Jiaya Jia
IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2023.
- [5]. Flow-aware synthesis: A generic motion model for video frame interpolation 
Jinbo Xing*, Wenbo Hu*, Yuechen Zhang, and Tien-Tsin Wong
Computational Visual Media (**CVM**), 7, 393-405, 2021.
- [6]. 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.

PREPRINTS

- [1]. Make-Your-Video: Customized Video Generation Using Textual and Structural Guidance 
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
Major revision in IEEE Transactions on Visualization and Computer Graphics (**TVCG**) 2023

- [2]. DynamiCrafter: Animating Open-domain Images with Video Diffusion Priors ^{PDF}
Jinbo Xing, Menghan Xia, Yong Zhang, Haoxin Chen, Wangbo Yu, Hanyuan Liu, Xintao Wang, Tien-Tsin Wong, and Ying Shan
- [3]. Video Colorization with Pre-trained Text-to-Image Diffusion Models ^{PDF}
Hanyuan Liu, Minshan Xie, **Jinbo Xing**, Chengze Li, and Tien-Tsin Wong
- [4]. Improved Diffusion-based Image Colorization via Piggybacked Models ^{PDF}
Hanyuan Liu, **Jinbo Xing**, Minshan Xie, Chengze Li, and Tien-Tsin Wong
- [5]. 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
- [6]. 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

Tencent AI Lab

Shenzhen, China

Research Intern

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

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.

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, TVCG, IJCV