




# XING Jinbo, Jerome

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## EDUCATION

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### 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

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

## PUBLICATIONS

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- [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]. 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  
IEEE Transactions on Visualization and Computer Graphics (**TVCG**), 2024
- [3]. Scale-arbitrary Invertible Image Downscaling   
**Jinbo Xing\***, Wenbo Hu\*, Menghan Xia, and Tien-Tsin Wong  
IEEE Transactions on Image Processing (**TIP**), 2023.
- [4]. 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
- [5]. 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.
- [6]. 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.
- [7]. 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

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- [1]. DynamiCrafter: Animating Open-domain Images with Video Diffusion Priors <sup>PDF</sup>  
**Jinbo Xing**, Menghan Xia, Yong Zhang, Haoxin Chen, Wangbo Yu, Hanyuan Liu, Xintao Wang, Tien-Tsin Wong, and Ying Shan
- [2]. Video Colorization with Pre-trained Text-to-Image Diffusion Models <sup>PDF</sup>  
Hanyuan Liu, Minshan Xie, **Jinbo Xing**, Chengze Li, and Tien-Tsin Wong
- [3]. Improved Diffusion-based Image Colorization via Piggybacked Models <sup>PDF</sup>  
Hanyuan Liu, **Jinbo Xing**, Minshan Xie, Chengze Li, and Tien-Tsin Wong
- [4]. Animate-A-Story: Storytelling with Retrieval-Augmented Video Generation <sup>PDF</sup>  
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 <sup>PDF</sup>  
Gongye Liu, Menghan Xia, Yong Zhang, Haoxin Chen, **Jinbo Xing**, Xintao Wang, Yujiu Yang, and Ying Shan

## WORK EXPERIENCE

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### 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

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- 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

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- 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

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TVCJ, IEEE TVCG, IJCV, ACM CSUR, ECCV 2024