




# 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

### 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]. 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

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- [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 <sup>PDF</sup>  
 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 <sup>PDF</sup>  
 Hanyuan Liu, Minshan Xie, **Jinbo Xing**, Chengze Li, and Tien-Tsin Wong
- [4]. Improved Diffusion-based Image Colorization via Piggybacked Models <sup>PDF</sup>  
 Hanyuan Liu, **Jinbo Xing**, Minshan Xie, Chengze Li, and Tien-Tsin Wong
- [5]. 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
- [6]. 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](#)
- Research on speech-driven 3D facial animation and text-to-video/image-to-video generation.

### Stanley Ho Big Data Decision Analytics Research Centre, CUHK

Hong Kong, China

*Research Assistant*

*May 2020 – Jun. 2021*

- Supervised by: Prof. [Meiling, Meng](#)
- Implemented the modularized code in research projects and making an interactive design.

## 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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The Visual Computer Journal (**TVCG**), IEEE Transactions on Visualization and Computer Graphics (**TVCG**)  
 International Journal of Computer Vision (**IJCV**)