

Jiwen Yu

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SUMMARY

- I will be enrolling the Department of Electrical and Electronic Engineering at the University of Hong Kong as a PhD student in 2024 fall, supervised by Prof. Xihui Liu at HKU-MMLab. I will be working on research topics related to Computer Vision and Embodied AI. Prior to this, I obtained my master's degree from Peking University, where I was advised by Prof. Jian Zhang.

EDUCATION

- **B.S. in Computer Science and Technology** **GPA Ranking: 2/219** **(2017-2021)**
Northwestern Polytechnical University
- **M.S. in Computer Application Technology** **(2021-2024)**
Peking University, VILLA LAB
Advisor: Prof. Jian Zhang
- **Ph.D. in Computer Vision and Embodied AI** **(2024-2028)**
The University of Hong Kong, HKU-MMLab
Advisor: Prof. Xihui Liu

WORK EXPERIENCE

- **Tencent AI Lab, Shenzhen** **May, 2023 - Jan, 2024**
Research Intern, supervised by Xiaodong Cun
Project: Video Applications using Diffusion Models

PUBLICATIONS

- **AnimateZero: Video Diffusion Models are Zero-Shot Image Animators**
Jiwen Yu, Xiaodong Cun, Chenyang Qi, Yong Zhang, Xintao Wang, Ying Shan, Jian Zhang
ArXiv, 2023.
- **CRoSS: Diffusion Model Makes Controllable, Robust and Secure Image Steganography**
Jiwen Yu, Xuanyu Zhang, Youmin Xu, Jian Zhang
Advances in Neural Information Processing Systems (NeurIPS), 2023.
- **FreeDoM: Training-Free Energy-Guided Conditional Diffusion Model**
Jiwen Yu, Yinhuai Wang, Chen Zhao, Bernard Ghanem, Jian Zhang
International Conference on Computer Vision (ICCV), 2023
- **Zero Shot Image Restoration Using Denoising Diffusion Null-Space Model**
Yinhuai Wang*, Jiwen Yu*, Jian Zhang (*equal contribution)
International Conference on Learning Representations (ICLR), 2023
Notable-Top-25%, In-Person Oral Presentation

- **EditGuard: Versatile Image Watermarking for Tamper Localization and Copyright Protection**
Xuanyu Zhang, Runyi Li, Jiwen Yu, Youmin Xu, Weiqi Li, Jian Zhang
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2024
- **Unlimited-Size Diffusion Restoration**
Yinhuai Wang, Jiwen Yu, Runyi Yu, Jian Zhang
CVPR Workshop (NTIRE), 2023.
- **Null-Space Diffusion Sampling for Zero-Shot Point Cloud Completion**
Xinhua Cheng*, Nan Zhang*, Jiwen Yu, Yinhuai Wang, Ge Li, Jian Zhang
International Joint Conference on Artificial Intelligence (IJCAI), 2023
- **GAN Prior based Null-Space Learning for Consistent Super-Resolution**
Yinhuai Wang, Yujie Hu, Jiwen Yu, Jian Zhang
The 37th AAAI Conference on Artificial Intelligence (AAAI-23)
Oral Presentation
- **Invertible Diffusion Models for Compressed Sensing**
Bin Chen, Zhenyu Zhang, Weiqi Li, Chen Zhao, Jiwen Yu, Shijie Zhao, Jie Chen, Jian Zhang
ArXiv, 2024
- **Neural Video Fields Editing**
Shuzhou Yang, Chong Mou, Jiwen Yu, Yuhan Wang, Xiandong Meng, Jian Zhang
ArXiv, 2023
- **DiffLLE: Diffusion-guided Domain Calibration for Unsupervised Low-light Image Enhancement**
Shuzhou Yang, Xuanyu Zhang, Yinhuai Wang, Jiwen Yu, Yuhan Wang, Jian Zhang
ArXiv, 2023