Jiwen Yu

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GitHub: https://github.com/vvictoryuki

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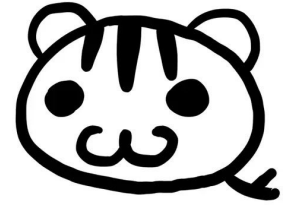
SUMMARY

- I am a second year master student at Peking University, SECE, advised by Prof. Jian Zhang. As a researcher in Computer Vision, I am focused on developing practical algorithms for applications in images/videos generation, editing, and restoration.

EDUCATION

- **B.S. in Computer Science and Technology**   **GPA Ranking: 2/219**   **(2017-2021)**
  Northwestern Polytechical University, Xi'an, China

- **M.S. in Computer Application Technology**   **(2021-2024)**
  Peking University, SECE, Shenzhen, China
  Advisor: Prof. Jian Zhang

WORK EXPERIENCE

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

PUBLICATIONS

- **CRoSS: Diffusion Model Makes Controllable, Robust and Secure Image Steganography**
  Jiwen Yu, Xuanyu Zhang, Youmin Xu, Jian Zhang
  ArXiv, May, 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

- **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