Chen WANG

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EDUCATION

University of Pennsylvania   08/2023 - Present
Ph.D. in Computer and Information Science (Advisor: Lingjie Liu)

Tsinghua University
M.E. in Computer Science (Advisor: Shi-Min Hu)   09/2020 - 06/2023
B.E. in Computer Science, B.A. in Economics   08/2016 - 06/2020

RESEARCH INTERESTS

3D/4D Generation and Reconstruction, Neural Scene Representations

SELECTED PUBLICATIONS

1. Zero-1-to-G: Taming Pretrained 2D Diffusion Model For Native 3D Generation.
   Xuyi Meng*, **Chen Wang***, Jiahui Lei, Kostas Daniilidis, Jiatao Gu, Lingjie Liu.
   Under submission to ICLR 2024

2. GECO: Generative Image-to-3D within a Second.
   Chen Wang, Jiatao Gu, Xiaoxiao Long, Yuan Liu, Lingjie Liu.
   Arxiv, 2024

3. Data-free Distillation of Diffusion Models with Bootstrapping.
   Jiatao Gu, **Chen Wang**, Shuangfei Zhai, Yizhe Zhang, Lingjie Liu, Josh M. Susskind.
   International Conference on Machine Learning (ICML), 2024

4. PanoGRF: Generalizable Spherical Radiance Fields for Wide-baseline Panoramas.
   Zheng Chen, Yan-Pei Cao, Yuan-Chen Guo, **Chen Wang**, Ying Shan, Song-Hai Zhang.
   Advances in Neural Information Processing Systems (NeurIPS), 2023

5. DreamEditor: Text-Driven 3D Scene Editing with Neural Fields.
   Jingyu Zhuang*, **Chen Wang***, Lingjie Liu, Guanbin Li, Liang Lin.
   SIGGRAPH Asia Conference Proceedings, 2023

6. VMesh: Hybrid Volume-Mesh Representation for Efficient View Synthesis.
   Yuan-Chen Guo, Yan-Pei Cao, **Chen Wang**, Yu He, Ying Shan, Xiaohu Qie, Song-Hai Zhang.
   SIGGRAPH Asia Conference Proceedings, 2023

7. Digging into Depth Priors for Outdoor Neural Radiance Fields.
   Chen Wang, Jiadai Sun, Lina Liu, Chenming Wu, Zhelun Shen, Dayan Wu, Yuchao Dai, Liangjun Zhang.
   ACM Internation Conference on Multimedia (ACM MM), 2023

8. DeepPortraitDrawing: Generating Human Body Images from Freehand Sketches.
   Chen Wang*, Xian Wu*, Hongbo Fu, Ariel Shamir, Song-Hai Zhang, Shi-Min Hu.
   Computer & Graphics, 2023

9. StructNeRF: Neural Radiance Fields for Indoor Scenes with Structural Hints.
   Zheng Chen, **Chen Wang**, Yuan-Chen Guo, Song-Hai Zhang.
   IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2023

10. NeRF-SR: High Quality Neural Radiance Fields using Supersampling.
    Chen Wang, Xian Wu, Yuan-Chen Guo, Yu-Wing Tai, Shi-Min Hu.
    ACM Internation Conference on Multimedia (ACM MM), 2022

TEACHING AND SERVICE

Conference Reviewer: CVPR (23-24), ECCV (24), SIGGRAPH ASIA (24), ICLR (23, 25), NeurIPS (24), 3DV (25), WACV (24), AAAI (25), ACM MM (23, 24), PG (23)
Journal Reviewer: TPAMI, TVCG, TIP, CVMJ
Teaching Assistant: Machine Perception, University of Pennsylvania   Spring 2024
Teaching Assistant: Intro to Neural Scene Representations, University of Pennsylvania   Fall 2023
Teaching Assistant: Virtual Reality, Tsinghua University   Fall 2022, Fall 2021
Teaching Assistant: Software Engineering, Tsinghua University   Fall 2019