Xinyue WEI

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EDUCATION

University of California San Diego, USA 03/2021 – Present
Ph.D. in Electrical and Computer Engineering *Advisor: Prof. Hao Su*

Tongji University, China 09/2016 – 06/2020
B.E. in Computer Science and Technology
GPA: 4.6/5.0 (90.98/100)

SELECTED PUBLICATIONS

∗ indicates equal contribution

1. **Core Contributor.** *Cosmos World Foundation Model Platform for Physical AI*. White Paper 2025.
2. Minghua Liu*, Chong Zeng*, **Xinyue Wei**, Ruoxi Shi, Linghao Chen, Chao Xu, Mengqi Zhang, Zhaoning Wang, Xiaoshuai Zhang, Isabella Liu, Hongzhi Wu, Hao Su. *MeshFormer: High-Quality Mesh Generation with 3D-Guided Reconstruction Model.* NeurIPS 2024 (Oral)
3. **Xinyue Wei***, Kai Zhang*, Sai Bi, Hao Tan, Fujun Luan, Valentin Deschaintre, Kalyan Sunkavalli, Hao Su, Zexiang Xu. *MeshLRM: Large Reconstruction Model for High-Quality Meshes*. Tech Report 2024
4. Ruoxi Shi*, **Xinyue Wei***, Cheng Wang, Hao Su. *ZeroRF: Fast Sparse View 360° Reconstruction with Zero Pretraining.* CVPR 2024
5. Minghua Liu*, Ruoxi Shi*, Linghao Chen*, Zhuoyang Zhang*, Chao Xu*, **Xinyue Wei**, Hansheng Chen, Chong Zeng, Jiayuan Gu, Hao Su. *One-2-3-45++: Fast Single Image to 3D Objects with Consistent Multi-View Generation and 3D Diffusion.* CVPR 2024
6. Ruoxi Shi, Hansheng Chen, Zhuoyang Zhang, Minghua Liu, Chao Xu, **Xinyue Wei**, Linghao Chen, Chong Zeng, Hao Su. *Zero123++: A Single Image to Consistent Multi-view Diffusion Base Model.* Tech Report 2023
7. **Xinyue Wei**, Fanbo Xiang, Sai Bi, Anpei Chen, Kalyan Sunkavalli, Zexiang Xu*, Hao Su*. *NeuManifold: Neural Watertight Manifold Reconstruction with Efficient and High-Quality Rendering Support.* WACV 2025
8. Anpei Chen, Zexiang Xu, **Xinyue Wei**, Siyu Tang, Hao Su, Andreas Geiger. *Dictionary Fields: Learning a Neural Basis Decomposition.* SIGGRAPH 2023 (Journal Track)
9. Jiayuan Gu, Fanbo Xiang, Xuanlin Li, Zhan Ling, Xiqiang Liu, Tongzhou Mu, Yihe Tang, Stone Tao, **Xinyue Wei**, Yunchao Yao, Xiaodi Yuan, Pengwei Xie, Zhiao Huang, Rui Chen, Hao Su**.** *ManiSkill2: A Unified Benchmark for Generalizable Manipulation Skills.* ICLR 2023
10. **Xinyue Wei***, Minghua Liu*, Zhan Ling, Hao Su. *Approximate Convex Decomposition for 3D Meshes with Collision-Aware Concavity and Tree Search.* SIGGRAPH 2022 (Journal Track)
11. **Xinyue Wei**, Haozhi Huang, Yujin Shi, Hongliang Yuan, Li Shen, Jue Wang. *End-to-End Adaptive Monte Carlo Denoising and Super-Resolution.* Arxiv 2021

WORK EXPERIENCE

- **Hillbot (sudoAI)** | Research Intern | Advisor: Hao Su 10/2024 – Present
- **NVIDIA Corporation** | Research Intern | Advisor: Ming-Yu Liu 10/2024 – 01/2025
- **Hillbot (sudoAI)** | Research Intern | Advisor: Hao Su 03/2024 – 10/2024
- **Adobe** | Research Intern | Advisor: Zexiang Xu 10/2023 – 03/2024
- **Adobe** | Research Intern | Advisor: Zexiang Xu 06/2022 – 03/2023
- **Tencent AI Lab** | Research Intern at AI graphics group | Advisor: Haozhi Huang, Jue Wang 02/2020 – 02/2021
- **Johns Hopkins University** | Research Intern at CCVL | Advisor: Alan Yuille 06/2019 – 10/2019
- **Tongji University** | Research Assistant at VILL | Advisor: Cairong Zhao 09/2018 – 06/2020

SKILLS

- **Programming Languages:** Python, C/C++, Cuda, Shell
- **Tools:** Blender, Unreal Engine

HONORS AND SERVICES

- Reviewer for SIGGRAPH'22'25, SIGGRAPH Asia'23, CVPR'22'23'24'25, ECCV'22'24, ICCV'23'25, 3DV'23, ICRA'23'24, WACV'24, IEEE CGA
- WiGraph Rising Star 2024
- UCSD Electrical and Computer Engineering Department Fellowship 2021