

# Xinyue WEI

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## EDUCATION

**University of California San Diego, USA**

*Ph.D. in Electrical and Computer Engineering*

03/2021 – 06/2025

Advisor: Prof. Hao Su

**Tongji University, China**

*B.E. in Computer Science and Technology*

GPA: 4.6/5.0 (90.98/100)

09/2016 – 06/2020

## SELECTED PUBLICATIONS

\* indicates equal contribution

- Seonghun Oh\*, Xiaodi Yuan\*, **Xinyue Wei\***, Ruoxi Shi, Fanbo Xiang, Minghua Liu, Hao Su. *PaMO: Parallel Mesh Optimization for Intersection-Free Low-Poly Modeling on the GPU*. Pacific Graphics 2025 (Journal Track)
- Core contributor** (77 authors). *Cosmos: World Foundation Model Platform for Physical AI. White paper 2025*.
- 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.
- Ruoxi Shi\*, **Xinyue Wei\***, Cheng Wang, Hao Su. *ZeroRF: Fast Sparse View 360° Reconstruction with Zero Pretraining*. CVPR 2024
- 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
- 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*. Technical Report
- 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*. Arxiv 2023
- 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)
- 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 Scientist 06/2025 – Present
- NVIDIA** | Research Intern 10/2024 – 01/2025  
Advisor: Dr. Ming-Yu Liu
- Hillbot (sudoAI)** | Research Intern 03/2024 – 10/2024  
Advisor: Prof. Hao Su
- Adobe** | Research Intern 10/2023 – 03/2024  
Advisor: Dr. Zexiang Xu
- Adobe** | Research Intern 06/2022 – 03/2023  
Advisor: Dr. Zexiang Xu
- Tencent AI Lab** | Research Intern at AI graphics group 02/2020 – 02/2021  
Advisor: Dr. Haozhi Huang, Dr. Jue Wang
- Johns Hopkins University** | Research Intern at CCVL 06/2019 – 10/2019  
Advisor: Prof. Alan Yuille
- Tongji University** | Research Assistant at VILL 09/2018 – 06/2020  
Advisor: Prof. Cairong Zhao

## HONORS AND SERVICES

- Reviewer for SIGGRAPH, SIGGRAPH Asia, CVPR, ECCV, ICCV, 3DV, ICRA, IROS, IEEE CGA
- CVPR 2025 Outstanding Reviewer
- WiGraph Rising Star 2024
- UCSD Electrical and Computer Engineering Department Fellowship 2021
- Tongji Outstanding Undergraduate (top 2%)
- Tongji Scholarship for Excellent Undergraduates 1st prize (top 5%)