

Xianglong He

✉ hxl23@mails.tsinghua.edu.cn

☎ +86 183-8298-3933

🔍 [Google Scholar](#)

📄 [XianglongHe.github.io](#)

EDUCATIONS

Shenzhen International Graduate School, Tsinghua University

2023.08 — 2026.06

M.Eng in Computer Technology

GPA 3.83 / 4.00

Advisor: Prof. [Chun Yuan](#)

Rank 12 / 75

Ocean University of China

2019.08 — 2023.06

B.E. in Computer Science and Technology

Overall Grades 96.57 / 100.00

Rank 4 / 269

PUBLICATIONS

• **GVGEN: Text-to-3D Generation with Volumetric Representation**

Xianglong He*, Junyi Chen*, Sida Peng, Di Huang, Yangguang Li, Xiaoshui Huang,

[Project Page](#)

Chun Yuan†, Wanli Ouyang, and Tong He†

ECCV 2024

- Propose 3D representation GaussianVolume, and introduce a two-stage native 3D generation methods.
- Effectively balance generation speed (~7 sec) and quality; Perform excellently quantitatively and qualitatively.

• **SparseFlex: High-Resolution and Arbitrary-Topology 3D Shape Modeling**

Xianglong He*, Zi-Xin Zou*, Chia-Hao Chen, Yuan-Chen Guo, Ding Liang,

[Project Page](#)

Chun Yuan†, Wanli Ouyang, Yan-Pei Cao, Yangguang Li†

Submitted to ICCV 2025

- Introduce sparse structured SparseFlex and Frustum Voxel Training Strategy for high-resolution VAE.
- Improve performance by a large margin (80%+); Build a foundational model for 3D generation.

• **MeshCraft: Exploring Efficient and Controllable Mesh Generation with Flow-based DiTs**

Xianglong He, Yangguang Li, Junyi Chen, Di Huang, Zexiang Liu, Xiaoshui Huang, Chun Yuan, Wanli Ouyang

Submitted to ICCV 2025

- Propose a efficient and controllable native mesh generation method utilizing continuous diffusion model.
- Yield fast generation speed (for 35 times+), Perform better than baselines quantitatively and qualitatively.

• **Enhancing the Transferability via Feature-Momentum Adversarial Attack**

Xianglong He, Yuezun Li, Haipeng Qu, Junyu Dong

Computers & Security

- Propose a transferable black-box attack method via the introduced feature-momentum guidance map.
- Achieve the best attack success rate (10%+) in 9 normal models and 5 adversarial models.

• **NOVA3D: Normal Aligned Video Diffusion Model for Single Image to 3D Generation**

• Propose a novel Image-to-3D method via video generation models and the normal prior.

ICME 2025

• **PonderV2: Pave the Way for 3D Foundataion Model with A Universal Pre-training Paradigm**

• Introducing a universal 3D pre-training paradigm via differentiable rendering.

Submitted to T-PAMI

• **Learn to Learn Consistently for Few-Shot Image Classification**

• Propose a model-agnostic meta-learning framework via self-distilling.

Submitted to ICCV 2025

EXPERIENCES

• **Algorithm Intern for 3D Generation**

VAST @ 2024.11 — Present

Cooperators: Yangguang Li, Zi-Xin Zou, Yan-Pei Cao, Yuan-Chen Guo, Chia-Hao Chen, Ding Liang

• **Research Intern for 3D Content**

Shanghai AI Laboratory @ 2023.01 — 2024.06

Cooperators: Xiaoshui Huang, Tong He, Di Huang, Junyi Chen, Wanli Ouyang

• **Research Assistant for AI Security**

Ocean University of China @ 2021.10 — 2022.10

Cooperators: Yuezun Li, Haipeng Qu

AWARDS

• **CCF Elite Collegiate Award**

2021

• **National College Student Information Security Contest, First Prize (Rank 5/2136)**

2021

• **Lanqiao Programming Designing Contest (Python A Group), Second Prize**

2022

• **Lanqiao Programming Designing Contest (C++ A Group), Second Prize**

2020

MISC

- **Services:** Reviewer for T-CSVT, MIR.
- **Language:** Mandarin (Native); English (Fluent, CET-6: 600/710)
- **Programming:** Python, C++, LaTeX