

Xianglong He

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🔍 [Google Scholar](#)

📄 [XianglongHe.github.io](#)

EDUCATIONS

Shenzhen International Graduate School, Tsinghua University	2023.08 — 2026.06
<i>M.Eng in Computer Technology</i>	GPA 3.83 / 4.00
<i>Advisor: Prof. Chun Yuan</i>	Rank 12 / 75
<i>Current Focus: Foundation Model in 3D Content Generation (assets, scenes, videos, etc.)</i>	
Ocean University of China	2019.08 — 2023.06
<i>B.E. in Computer Science and Technology</i>	Overall Grades 96.57 / 100.00
	Rank 4 / 269

PUBLICATIONS

3D Vision (Object-level Generation, Scene-level Generation, Pre-training)

- **GVGEN: Text-to-3D Generation with Volumetric Representation**
*Xianglong He**, Junyi Chen*, Sida Peng, Di Huang, Yangguang Li, Xiaoshui Huang, Chun Yuan†, Wanli Ouyang, and Tong He†
· Propose 3D representation GaussianVolume, and introduce a two-stage native 3D generation methods. [Project Page](#) [ECCV 2024](#)
- **SparseFlex: High-Resolution and Arbitrary-Topology 3D Shape Modeling**
*Xianglong He**, Zi-Xin Zou*, Chia-Hao Chen, Yuan-Chen Guo, Ding Liang, Chun Yuan†, Wanli Ouyang, Yan-Pei Cao, Yangguang Li†
· Introduce sparse structured SparseFlex and Frustum Voxel Training Strategy for super high-resolution VAE. [Project Page](#) [ICCV 2025 \(Score: 555\)](#)
- **MeshCraft: Exploring Efficient and Controllable Mesh Generation with Flow-based DiTs**
Xianglong He, Junyi Chen, Di Huang, Zexiang Liu, Xiaoshui Huang, Wanli Ouyang, Chun Yuan†, Yangguang Li†
· an efficient and controllable native mesh generation method utilizing continuous diffusion model. [arXiv 2025](#)
- **ShapeGen: Towards High-Quality 3D Shape Synthesis**
*Yangguang Li**, *Xianglong He**, Zi-Xin Zou, Zexiang Liu, Wanli Ouyang, Ding Liang, Yan-Pei Cao
· a next-gen 3D shape generation diffusion model. [Under Review](#)
- **PonderV2: Pave the Way for 3D Foundataion Model with A Universal Pre-training Paradigm**
· a universal 3D pre-training paradigm via differentiable rendering. [T-PAMI](#)
- **NOVA3D: Normal Aligned Video Diffusion Model for Single Image to 3D Generation**
· Image-to-3D via video generation and normal prior [ICME 2025 \(Best Paper Candidate\)](#)
- **DeepVerse: 4D Autoregressive Video Generation as a World Model**
· a novel 4D interactive world model. [arXiv 2025](#)

AI Security

- **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.

Meta-learning

- **Learn to Learn Consistently for Few-Shot Image Classification**
· a model-agnostic meta-learning framework via self-distilling. [arXiv 2024](#)

EXPERIENCES

- **Algorithm Intern for 3D Generation (working on Tripo 3.0)** **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
- **China Graduate Contest on Cyber Security, Second Prize** 2022
- **Lanqiao Programming Designing Contest (Python & C++), Second Prize*2** 2020, 2022

MISC

- **Services:** Reviewer for SIGGRAPH ASIA 2025, T-CSVT, MIR.
- **Language:** Mandarin (Native); English (Fluent, CET-6: 600/710)
- **Programming:** Python, C++, LaTeX, Github ~1,000 Stars