

Xianglong He

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[Google Scholar](#)

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EDUCATIONS

Shenzhen International Graduate School, Tsinghua University	2023 — 2026
M.Eng in Computer Technology	GPA 3.83 / 4
Advisor: Prof. Chun Yuan	Rank 12 / 75
Current Focus: 3D Generation (assets, scenes, videos, etc.)	
Ocean University of China	2019 — 2023
B.E. in Computer Science and Technology	Grades 96.57 / 100
	Rank 4 / 269

PUBLICATIONS

Video Generation-based World Model

- **Matrix-Game 2.0: An Open-Source, Real-Time, and Streaming Interactive World Model**
Xianglong He, Chunli Peng*, Zexiang Liu*, Boyang Wang*†, ..., Yang Liu‡, Eric Li‡, Yahui Zhou* [Project Page](#) [Tech Report](#)
- a generative model for high-quality minute-level videos across diverse scenes at 25 FPS.
- **DeepVerse: 4D Autoregressive Video Generation as a World Model**
· a novel generalizable 4D interactive world model. [arXiv 2025](#)

3D Vision

- **ShapeGen: Towards High-Quality 3D Shape Synthesis**
Yangguang Li, Xianglong He*, Zi-Xin Zou, Zexiang Liu, Wanli Ouyang, Ding Liang, Yan-Pei Cao* [Siggraph Asia 2025](#)
· a next-gen 3D shape generation diffusion model.
- **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](#)
- **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†* [Project Page](#) [ICCV 2025 \(Oral, 0.57%\)](#)
· Introduce sparse structured SparseFlex and Frustum Voxel Training Strategy for super high-resolution VAE.
- **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†* [Project Page](#) [ECCV 2024](#)
· Propose 3D representation GaussianVolume, and introduce a two-stage native 3D generation methods.
- **PonderV2: Pave the Way for 3D Foundation 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 \(Best Paper Candidate, 0.40%\)](#)

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](#)

SELECTED AWARDS

- **National Scholarship, Tsinghua University** 2025
- **CCF Elite Collegiate Award, China Computer Federation** 2021
- **First Prize (Rank 5/2136), National College Student Information Security Contest** 2021
- **Second Prize, China Graduate Contest on Cyber Security** 2022
- **Second Prize, Lanqiao Programming Designing Contest (Python, C++)** 2022, 2020

MISC

- **Services:** Reviewer for SIGGRAPH ASIA 2025, T-CSVT, MIR.
- **Language:** Mandarin (Native); English (Fluent, CET-6: 600/710)
- **Programming:** Python, C++, LaTeX, Github ~3K Stars