

EDUCATION

- **Fudan University** Shanghai, China
Bachelor of Science - Computer Science; GPA: 3.3/4.0
September 2019 - June 2023
Courses: Calculus, Linear Algebra, Probability, Operating System, Data Structure, Introduction to Algorithms, Artificial Intelligence, Pattern Recognition and Machine Learning, Computer Network, Introduction to Database
- **University of Massachusetts, Amherst** Amherst, MA
Master of Science - Computer Science; GPA: 3.7/4.0
September 2023 - May 2025
Courses: Machine Learning, Neural Networks: Modern Intro, Logic in Computer Science, System Defense and Test, Mobile and Ubiquitous Computing, Software Engineering, Game Programming, Computer Vision, Robotics
- **University of Massachusetts, Amherst** Amherst, MA
Ph.D. - Computer Science
Sep 2026 - Present

PUBLICATIONS

- **IM-ENGINE: Image Editing for Embodied Data Generation** CoRL 2026
Yian Wang, Junyi Cao*, Xiaowen Qiu, Chuang Gan*
- **PhyScensis: Physics-Augmented LLM Agents for Complex Physical Scene Arrangement** ICLR 2026
Yian Wang, Han Yang*, Minghao Guo, Xiaowen Qiu, Tsun-Hsuan Wang, Wojciech Matusik, Joshua B. Tenenbaum, Chuang Gan*
- **Robotsmith: Generative robotic tool design for acquisition of complex manipulation skills** NeurIPS 2025
Chunru Lin, Haotian Yuan*, Yian Wang*, Xiaowen Qiu, Tsun-Hsuan Wang, Minghao Guo, Bohan Wang, Yashraj Narang, Dieter Fox, Chuang Gan*
- **Articulate AnyMesh: Open-Vocabulary 3D Articulated Objects Modeling** CoRL 2025
Xiaowen Qiu, Jincheng Yang*, Yian Wang, Zhehuan Chen, Yufei Wang, Tsun-Hsuan Wang, Zhou Xian, Chuang Gan*
- **Architect: Generating Vivid and Interactive 3D Scenes with Hierarchical 2D Inpainting** NeurIPS 2024
Yian Wang, Xiaowen Qiu*, Jiageng Liu*, Zhehuan Chen, Jiting Cai, Yufei Wang, Tsun-Hsuan Wang, Zhou Xian, Chuang Gan*
- **3D-VLA: A 3D Vision-Language-Action Generative World Model** ICML 2024
Haoyu Zhen, Xiaowen Qiu, Peihao Chen, Jincheng Yang, Xin Yan, Yilun Du, Yining Hong, Chuang Gan

EXPERIENCE

- **Fudan Nebula AI LAB**
Undergraduate Researcher, supervised by Prof. Weifeng Ge
Mar 2021 - Jun 2023
 Developed a cycle-consistent model for photorealistic style transfer. Built a voxel diffusion model for semantic scene completion.
- **Microsoft Research Lab - Asia (MSRA)**
Research Intern
Apr 2022 - Mar 2023
 Implemented DINO-based models for table detection and scene text detection, improving detection accuracy.
- **UMass Embodied AGI Lab**
Graduate Researcher, supervised by Prof. Chuang Gan
Sep 2023 - May 2025
 Embodied AI and Robotics (3D-VLA; Architect for Interactive 3D Scene Generation; Articulate AnyMesh for Open-Vocabulary 3D Articulated Object Modeling; Robotsmith; PhyScensis)
- **Genesis Intelligence Inc.**
Research Scientist Intern
June 2025 - Aug 2025
 Built a synthetic robot-data augmentation pipeline using MimicGen and other augmentation methods. Ran experiments on co-training robot policies with simulated and real-world data.
- **Genesis Intelligence Inc.**
Research Scientist
Aug 2025 - Aug 2026
 Built infrastructure for simulation-based policy evaluation. Contributed to the GENE-26.5 release by delivering the wire-harnessing demo task and robot foundation-model evaluation infrastructure and results. Led the development of a hardware stack for glove-based data collection.
- **UMass Embodied AGI Lab**
Graduate Researcher, supervised by Prof. Chuang Gan
Sep 2026 - Present
 Working on Agentic Robotics

PROJECTS

- **Genesis-World:** A physics and robotics simulation engine. Project page: <https://genesis-embodied-ai.github.io/>.