

ZEHUAN HUANG

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🎓 EDUCATION

Beihang University, Beijing, China 2023 – Present

Master student in School of Software, advised by [Prof. Lu Sheng](#), expected Jan. 2026

Beihang University, Beijing, China 2019 – 2023

B.Eng. in School of Software, GPA 3.87/4.00 (12/176, 6%)

📖 RESEARCH INTEREST

My prior research focused on applying deep generative models to **3D asset creation**, encompassing the generation of 3D objects, scenes, textures, and animations. My current research interests lie in **world models and simulation**, including 1) generalizable 3D geometry foundation models, 2) interactive digital world creation, and 3) physical property simulation.

👥 EXPERIENCE

- Research Intern @ VAST (TripoAI)** Jan. 2024 – March 2025
3D generation Mentor: *Yuanchen Guo*, and *Yanpei Cao*
- Research Intern @ Shanghai AILab, Bo Dai's Group** Aug. 2023 – Dec. 2023
3D generation Mentor: *Junting Dong*
- Research Intern @ MiniMax** May 2022 – June 2023
3D reconstruction and controllable image generation Leader: *Bin Yang*

📄 PUBLICATIONS

(* denotes equal contribution)

- MIDI: Multi-Instance Diffusion for Single Image to 3D Scene Generation** [\[Project\]](#)
Zehuan Huang, Yuan-Chen Guo, Xingqiao An, Yunhan Yang, Yangguang Li, Zi-Xin Zou, Ding Liang, Xihui Liu, Yan-Pei Cao, Lu Sheng
CVPR 2025 | Github star 600+, Online demo runs 80k+ Adapt 3D object generation models to compositional 3D scene generation from a single image.
- Ouroboros3D: Image-to-3D Generation via 3D-aware Recursive Diffusion** [\[Project\]](#)
Hao Wen*, **Zehuan Huang***, Yaohui Wang, Xinyuan Chen, Yu Qiao, Lu Sheng
CVPR 2025 Enhance 3D generation by unifying multi-view synthesis and 3D reconstruction.
- EpiDiff: Enhancing Multi-View Synthesis via Localized Epipolar-Constrained Diffusion** [\[Project\]](#)
Zehuan Huang*, Hao Wen*, Junting Dong, Yaohui Wang, Yangguang Li, Xinyuan Chen, Yan-Pei Cao, Ding Liang, Yu Qiao, Bo Dai, Lu Sheng
CVPR 2024 Enhancing multi-view consistency and efficiency by incorporating epipolar constraints.
- TELA: Text to Layer-wise 3D Clothed Human Generation** [\[Project\]](#)
Junting Dong, Qi Fang, **Zehuan Huang**, Xudong Xu, Jingbo Wang, Sida Peng, Bo Dai
ECCV 2024 Generate cloth-disentangled 3D human from text conditions via multi-layer representation.
- Write An Animation: High level Text based Animation Editing with Character Scene Interaction**
Jia Qi Zhang, Xiang Xu, Zhi Meng Shen, **Zehuan Huang**, Yang Zhao, Yan Pei Cao, Pengfei Wan, Miao Wang

PREPRINTS

(* denotes equal contribution)

1. **MV-Adapter: Multi-view Consistent Image Generation Made Easy** [\[Project\]](#)
Zehuan Huang, Yuan-Chen Guo, Haoran Wang, Ran Yi, Lizhuang Ma, Yan-Pei Cao, Lu Sheng
In Submission | Github star **1.3k+** (2 repos), model's total downloads **250k+** Versatile multi-view generation with various base models and conditions, and high-quality 3D texture generation.
2. **Personalize Anything for Free with Diffusion Transformer** [\[Project\]](#)
Haoran Feng*, **Zehuan Huang***, Lin Li, Hairong Lv, Lu Sheng
In Submission Customize any subject with advanced DiT without additional fine-tuning.
3. **Parts2Whole: Generalizable Multi-Part Portrait Customization** [\[Project\]](#)
Zehuan Huang*, Hongxing Fan*, Lipeng Wang, Lu Sheng
In Submission Generate human images from user-specified human part images (face, pants, shoes, etc.)

HONORS AND AWARDS

<i>Huawei Scholarship</i> (Top 1%)	2025
China National Scholarship (Top 1%)	2024
<i>BYD Alumni Scholarship</i> (Top 1%)	2024
<i>Huawei Intelligent Base Scholarship</i> (Top 1%)	2023
Beijing Outstanding Graduate (Top 3%)	2023
<i>Xiaomi Scholarship</i> (Top 1%)	2022

SERVICES

- Reviewer: ICLR, CVPR, ICCV, ACM MM, TCSVT
- Contributor: diffusers, the most popular repo for diffusion, and threestudio, a popular repo for 3d generation
- In-School: TA and part-time technology counselor in School of Software, Beihang University