Curriculum vitæ Binbin HUANG

Address

Binbin HUANG

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Education

The University of Hong Kong

Ph.D Student in Department of Computer Science

ShanghaiTech University

M.Phi / Ph.D Student in Computer Science

South China University of Technology

B.Eng in Software Engineering

Hong Kong, China

2024 P

Sep. 2024 - Present

Shanghai, China

Sep. 2020 - Jul. 2024

Guangzhou, China

Sep. 2016 - Jul. 2020

Research Interests

3D Vision & Graphics, 3D-aware Generative Models, Vision Language Models

Publications

[1] CUPID: Pose-Grounded Generative 3D Reconstruction from a Single Image Binbin Huang*, Haobin Duan*, Yiqun Zhao, Zibo Zhao, Yi Ma, Shenghua Gao arxiv.2510.20776, 2025 (* equal contribution)

[2] Surfel-based Gaussian Inverse Rendering for Fast and Relightable Dynamic Human Reconstruction from Monocular Video

Yiqun Zhao, Chenming Wu, <u>Binbin Huang</u>, Yihao Zhi, Chen Zhao, Jingdong Wang, Shenghua Gao *TPAMI 2025*

- [3] Quadratic Gaussian Splatting: High Quality Surface Reconstruction with Second-order Geometric Primitives Ziyu Zhang*, Binbin Huang*, Hanqing Jiang, Liyang Zhou, Xiaojun Xiang, Shunhan Shen ICCV 2025 (* equal contribution)
- [4] GenFusion: Closing the Loop between Reconstruction and Generation via Videos Sibo Wu, Congrong Xu, Binbin Huang, Andreas Geiger, Anpei Chen CVPR 2025
- [5] 2D Gaussian Splatting for Geometrically Accurate Radiance Fields Binbin Huang, Zehao Yu, Anpei Chen, Andreas Geiger, Shenghua Gao SIGGRAPH 2024 (Most Influential Papers #1)
- [6] Mip-Splatting: Alias-free 3D Gaussian Splatting
 Zehao Yu, Anpei Chen, Binbin Huang, Torsten Sattler, Andreas Geiger
 CVPR 2024 ** (Oral, Best Student Paper)
- [7] GeoFormer: Learning Point Cloud Completion with Tri-Plane Integrated Transformer Jinpeng Yu, Binbin Huang, Yuxuan Zhang, Huaxia Li, Xu Tang, Shenghua Gao *ACM'MM* 2024
- [8] **Heromaker: Human-centric Video Editing with Motion Priors**Shiyu Liu, Zibo Zhao, Yihao Zhi, Yiqun Zhao, <u>Binbin Huang</u>, Shuo Wang, Ruoyu Wang, Michael Xuan, Zhengxin Li, Shenghua Gao *ACM'MM* 2024 (Oral)
- [9] 3D-aware Image Generation using 2D Diffusion Models Jianfeng Xiang, Jiaolong Yang, <u>Binbin Huang</u>, Xin Tong ICCV 2023

[10] Omni-Line-of-Sight for Holistic Shape Reconstruction

Binbin Huang*, Xinyue Peng*, Siyuan Shen, Suan Xia, Ruiqian Li, Yanhua Yu, Yuehan Wang, Shenghua Gao, Wenzheng Chen, Shiying Li, Jingyi Yu arXiv:2304.10780, 2023. (* equal contribution)

[11] PREF: Phasorial Embedding Fields for Compact Neural Representations

Binbin Huang, Xinhao Yan, Anpei Chen, Shenghua Gao, Jingyi Yu arXiv:2304.10780, 2022

[12] Look Before You Leap: Learning Landmark Features for One-Stage Visual Grounding

Binbin Huang, Dongze Lian, Weixin Luo, Shenghua Gao CVPR 2021

Internship Experience

Microsoft Research Asia Beijing, China

Research Intern with Internet Graphics Group Aug. 2022 – May. 2023

· Mentor: Jiaolong Yang and Xin Tong

· Topic: 3D generation using 2D diffusion models

Honors & Awards

2024	Best Student Paper Award (Top winners among 11,500 submissions)	CVPR'24
2023	National Scholarship (Top 10 M.Phil students in SIST, ShanghaiTech)	ShanghaiTech
2021	Outstanding Teaching Assistant (For outstanding teaching support in CS172)	ShanghaiTech
2019	National Scholarship (Top 2% undergraduates)	SCUT
2018	National Scholarship (Top 2% undergraduates)	SCUT
2017	National Encouragement Scholarship (Top 5% undergraduates)	SCUT

Teaching Experience

Teaching Assistant The University of Hong Kong Hong Kong SAR, China

COMP3270 Artificial Intelligence Spring 2024

Teaching Assistant Shanghai Tech University Shanghai, China

CS172 Computer Vision I Fall 2021

Teaching Assistant Shanghai Tech University Shanghai, China

CS172 Computer Vision I Fall 2020

Academic Services

Computer Graphics (CG) Reviewer: SIGGRAPH, SIGGRAPH Asia, TVCG

Computer Vision (CV) Reviewer: CVPR, ICCV, ECCV, NeurIPS, ICLR, TPAMI, TOMM, TCSVT

References

Shenghua Gao (PhD Advisor) The University of Hong Kong

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