Minghan Qin

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Google Scholar GitHub

Research

3D Vision, 3D Scene Reconstruction and Perception,

Interests

3D Human/Face Avatars Reconstruction,

3D Gaussian Splatting, Neural Radiance Field

EDUCATION

Tsinghua University, China

Sep 2021 – Jun 2024

Master, Major: Artificial Intelligence, Advisor: Haoqian Wang

Southeast University, China

Aug 2017 – Jun 2021

Bachelor, Major: Measurement and Control Technology & Instruments

SELECTED
PUBLICATIONS

- 1. Minghan Qin, Wanhua Li, Jiawei Zhou, Haoqian Wang, Hanspeter Pfister. "LangSplat: 3D Language Gaussian Splatting", *IEEE/CVF Conference on Computer Vision and Pattern Recognition* (CVPR Highlight), 2024. [Project Page] [Code(Star:400)]
- 2. Minghan Qin, Yifan Liu, Yuelang Xu, Xiaochen Zhao, Yebin Liu, Haoqian Wang. "High-Fidelity 3D Head Avatars Reconstruction through Spatially-Varying Expression Conditioned Neural Radiance Field", Advances in Association for the Advancement of Artificial Intelligence (AAAI), 2024. [Project Page]
- 3. Yang Liu, Huang Xiang, Minghan Qin, Qinwei Lin, Haoqian Wang. "Animatable 3D Gaussian: Fast and High-Quality Reconstruction of Multiple Human Avatars.", arXiv preprint arXiv:2311.16482 (2023). [Project Page]
- 4. Dongbin Zhang, Chuming Wang, Weitao Wang, Peihao Li, Minghan Qin, Haoqian Wang. "Gaussian in the Wild: 3D Gaussian Splatting for Unconstrained Image Collections.", arXiv preprint arXiv:2403.15704 (2024). [Project Page]

Professional Experience

Fellow in Computer Science

Sep. 2023 – Apr. 2024

Harvard University - VCG Lab at Boston, America

Supervised by Wanhua Li and Hanspeter Pfister Projects: 3D Reconstruction, 3D Scene Perception

Honors and Awards

- National 1st Award in The 10th "Beidou Cup" National Science and Technology Innovation Competition (BD-CASTIC) 2019
- Department Scholarship at THU

2023

• Learning Progress Scholarship at SEU

2020 2015

 \bullet ${\bf Second\ Prize}$ in National High School Mathematics League

- Gold Medal in National Hopecup Mathematical Invitational (Team Competition) 2012
- Silver Medal in National Hopecup Mathematical Invitational (Individual Events) 2012

SKILLS

- Language: Chinease (native), English
- Computing Skills: Algorithms, Data Structure, Machine Learning.
- Programming: Python, C/C#/C++, Matlab, LATEX.
- Programming Frameworks: Pytorch, Scikit-Learn, TensorFlow, NeRFStudio