Minghan Qin

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Contact Information

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Research Interests

3D Vision, 3D Scene Reconstruction and Perception,
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
- **Second Prize** in National High School Mathematics League 2015
- **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