Jiamu Sun

PhD Student

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Education

University of California, San Diego   *La Jolla, CA, USA*
PhD Student, Computer Science   *2024 - 2029(Estimated)*
- Advisor: Prof. Ravi Ramamoorthi

University of Chinese Academy of Sciences   *Beijing, China*
MS Computer Science   *2021 - 2024*
- **GPA** 3.78/4.0 **TOEFL-iBT** 108/120 (R30,L30,S25,W23)
- Advisor: Prof. Lin Gao

Huazhong University of Science and Technology   *Wuhan, Hubei, China*
BS Computer Science   *2017 - 2021*
- **GPA** 92.81/100 (3.99/4.0), **Ranking** 3/320
- **CET4** 672/710 **CET6** 582/710
- Thesis Advisor: Prof. Lin Gao, Prof. Hongxing Guo

Publications

Jia-Mu Sun, Tong Wu, Ling-Qi Yan, Lin Gao*. 2024. NU-NeRF: Neural Reconstruction of Nested Transparent Objects with Uncontrolled Capture Environment. *Accepted to SIGGRAPH Asia 2024*.

Lin Gao*, Jie Yang, Bo-Tao Zhang, **Jia-Mu Sun**, Yu-Jie Yuan, Hongbo Fu, Yu-Kun Lai. 2024. Real-time Large-scale Deformation of Gaussian Splatting. *Accepted to SIGGRAPH Asia 2024*.

Jing-Wen Yang, **Jia-Mu Sun**, Yongliang Yang, Jie Yang, Ying Shan, Yan-Pei Cao, Lin Gao*. 2024. DMiT: Deformable Mipmapped Tri-Plane Representation for Dynamic Scenes. *European Conference on Computer Vision (ECCV), 2024*.

Jia-Mu Sun, Tong Wu, Lin Gao*. 2024. Recent advances in implicit representation-based 3D shape generation. *Visual Intelligence*.

Jia-Mu Sun, Jie Yang, Kaichun Mo, Yu-Kun Lai, Leonidas J. Guibas, Lin Gao*. 2024. HAISOR: Human-Aware Indoor Scene Optimization via Deep Reinforcement Learning. *ACM Transactions on Graphics*.

Jia-Mu Sun, Tong Wu, Yong-Liang Yang, Yu-Kun Lai, Lin Gao*. 2023. SOL-NeRF: Sunlight Modeling for Outdoor Scene Decomposition and Relighting. In *SIGGRAPH Asia 2023 Conference Paper*.

Tong Wu, **Jia-Mu Sun**, Yu-Kun Lai, Lin Gao*. 2023. DE-NeRF: DEcoupled Neural Radiance Fields for View-Consistent Appearance Editing and High-Frequency Environmental Relighting. In *SIGGRAPH 2023 Conference Paper*.

Lin Gao, **Jia-Mu Sun**, Kaichun Mo, Yu-Kun Lai, Leonidas J. Guibas, Jie Yang. 2023. SceneHGN: Hierarchical Graph Networks for 3D Indoor Scene Generation with Fine-Grained Geometry. In *IEEE Transactions on Pattern Analysis and Machine Intelligence (IEEE TPAMI)*.

Professional Experience

2020.6-8   **Intern Game Engine Developer**, Tencent(Guangzhou)

Awards, Fellowships, & Grants

2022   **First-Level Graduate Academic Scholarship**, University of Science Academy of Sciences
2021   **Excellent Thesis Award**, Huazhong University of Science and Technology
2020   **Honor Student of Qiming Collage**, Huazhong University of Science and Technology
2019   **Undergraduate National Scholarship**, China