Jiahao Chen　陈家豪

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🎓 Education

Sun Yat-sen University, Guangzhou, China *Sept. 2022 – Jun. 2025 (expected)*

M.S. in Computer Science and Technology

- GPA: 92/100. Advisor: Guanbin Li.

Sun Yat-sen University, Guangzhou, China *Sept. 2018 – Jun. 2022*

B.E. in Computer Science and Technology

- GPA: 4.2/5.0. Rank: 14/187. National Scholarship awardee.

📑 Research Interests

Computer Vision and Computer Graphics, especially Neural Rendering, 3D Reconstruction and Generation.

👥 Experience

SmartMore Inc., Shenzhen, China *Dec. 2021 – Dec. 2023*

Research Intern　Advisor: Nianjuan Jiang, Jiangbo Lu

- **Raw Image Denoising**
  - Responsible for planning and constructing the dataset, including capturing noisy real-world raw images and synthesizing clean ones.
  - Assisted in implementing, training and evaluating denoising models based on CNN and Transformer.
- **3D Reconstruction**
  - Explore the challenges of applying Neural Radiance Fields in the real world, such as appearance changes and transient distractors.

📖 Publications

1. <u>Jiahao Chen</u>, Yipeng Qin, Lingjie Liu, Jiangbo Lu and Guanbin Li. "NeRF-HuGS: Improved Neural Radiance Fields in Non-static Scenes Using Heuristics-Guided Segmentation". IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2024. (**Best Paper Candidate**) [Project] [Paper] [Code]

♥ Honors and Awards

- **First-class Scholarship**, Sun Yat-sen University *2019, 2021, 2022, 2023*
- **Meritorious Winner Prize**, COMAP's Interdisciplinary Contest in Modeling, United States *2021*
- **Third-class Scholarship**, Sun Yat-sen University *2020*
- **National Scholarship**, Ministry of Education of P.R. China *2019*
- **First Prize**, Guangdong branch of China Undergraduate Mathematical Contest in Modeling *2019*

⚙ Technical Skills

- Programming Languages: Python, C, C++, CUDA, MATLAB, HTML, CSS, JavaScript
- Frameworks: PyTorch, JAX, Django
- Tools: Git, MySQL, Docker

ℹ Miscellaneous

- Languages: English (CET6: 521/750), Mandarin (native speaker), Cantonese (native speaker)