Shu Pu

pushuabc@gmail.com — Homepage — Scholar — Github — Last Update: Nov 21 2024

EDUCATION

Sep 2022- Jun 2026 (Expected)   Huazhong University of Science and Technology   Computer Science and Technology
Grade: 4.14/5, Rank: 12/35
Degree: Bachelor of Engineer
Major: Excellent engineer in Computer Science and Technology

Publication

- Dongping Chen *, Ruoxi Chen *, **Shu Pu** *, ···, Ranjay Krishna, Yao Wan. ***ISG-Bench***: *Interleaved Scene Graph for Text-to-Image Generation Assessment* [PDF] **In Submission**
- Haojie Zheng *, Tianyang Xu *, Hanchi Sun, **Shu Pu**, Ruoxi Chen, Lichao Sun. ***Thinking Before Looking***: *Improving Multimodal LLM Reasoning via Mitigating Visual Hallucination* [PDF] **In submission**

Experience

Research Internship in HUST, Supervised by Associate Professor Yao Wan
Part-time, Research Intern
June 2024 – Present

- Research on unified generation models and their interleaved generation capabilities. We propose a benchmark **ISG-Bench** focusing on evaluating the model's interleaved image-text generation capability and propose a brand-new evaluation metrics for interleaved context using scene graph.
- *MLLM as a judge++* [Proposal], **In Progress**

Summer Internship in ShangHai, Supervised by Teaching Professor Raja Sooriamurthi
Full-time, Research Intern
Aug 2024

- Become involved in the research area and do a data analysis project.

Research Interests

3D Physical World Perception and Generation Computer Vision, Course Project

- Conducted a self-directed survey on 3D perception and generation.
- Explored 3D Gaussian Splatting by diving into its code and learning CUDA programming to gain a comprehensive understanding of the technique.

Skills

Language: Mandarin (native, English (TOFEL 102).
Research Abilities: Proficient in coding and programming using python, C++, CUDA; Knowledge and experience in Multi-modal Perception, Diffusion models, 3DGS, LLM-based Agents and prompt engineering.
Interesting Field: Besides all the research I did, I'm also a motivated Computer Graphics learner, especially in 3D AIGC. I believe it is much more worthwhile to integrate AI into our daily use.

Others

Research is not all I need.
Hobbies: Football, Swimming, R&B.