

Shu Pu

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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] **ICLR'25 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] **CVPR'25 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. *Survey link* [PDF]
- 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.