# Shu Pu

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## **EDUCATION**

Sep 2022- Jun 2026 (Expected) Huazhong University of Science and Technology Computer Science and Technology

**Grade:** 4.17/5, 86.9/100, Rank: 17/35 **Degree:** Bachelor of Engineer

Major: Excellent engineer in Computer Science and Technology

#### **Publication**

• Shu Pu, Yaochen Wang, Dongping Chen, Yuhang Chen, Guohao Wang, Qi Qin, Zhongyi Zhang, Zhiyuan Zhang, Zetong Zhou, Shuang Gong, Yi Gui, Yao Wan, Philip S. Yu. *Judge Anything:* MLLM as a Judge Across Any Modality. **KDD' 25** in submission.

• ICLR'25 (Spotlight 5.1%) Dongping Chen \*, Ruoxi Chen \*, Shu Pu \*, · · ·, Ranjay Krishna, Yao Wan. ISG-Bench: Interleaved Scene Graph for Text-to-Image Generation Assessment [PDF]

• Haojie Zheng \*, Tianyang Xu \*, Hanchi Sun, **Shu Pu**, Ruoxi Chen, Lichao Sun. *Thinking Before Looking: Improving Multimodal LLM Reasoning via Mitigating Visual Hallucination* [PDF]

## Experience

#### Remote Research Internship in Princeton, Supervised by Assistant Professor Zhuang Liu

Full-time, Remote Research Intern

March 2025 - Present

#### Research Internship in HUST, Supervised by Associate Professor Yao Wan

Part-time, Research Intern

June 2024 - March, 2025

- 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.
- Research on any-to-any generative models capability investigation. We propose a benchmark, fine-grained human analysis and an *Omni-Arena* for the development of any-to-any generative models.

### Summer Internship in ShangHai, Supervised by Teaching Professor Raja Sooriamurthi

Full-time, Research Intern

August 2024

• Became involved in the research area and did a data analysis project.

## **Personal Projects**

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

- $\bullet$  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.

# Computer Graphics

• From Mar. 17, 2025, I start a translation project of books *Physically Based Rendering: From Theory To Implementation* and the trilogy of *Ray Tracing in One Week* 

## Skills

Language: Mandarin (native, English (TOFEL 103).

Research Abilities: Proficient in coding and programming using python, C++; Aware of CUDA and parallel programming; 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. My long-term goal is to help develop a world-model which can revolutionize the film, game and animation industry. 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.