# SHI QIU

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## EDUCATION

**Peking University**                                                                           2022.09 - now
Undergraduate student in Physics, double major in Computer Science

## RESEARCH INTEREST

My research interests focus on reasoning models and agents, with a specific emphasis on assessing their interpretability and robust reasoning capabilities. I've also done research in Large Multimodal Models(LMMs), especially their evaluation and application for human society.

I'm holding a **U.S. permanent green card**, capable of **funding self-sponsored internships and research**, and eager to receive guidance from experienced mentors and experts.

## SELECTED PUBLICATIONS

\*: equal contributions. Full publication list is in Google Scholar.

[1] **Shi Qiu\***, Peng Xia\*, Siwei Han\*, Yiyang Zhou, Zhaoyang Wang, Wenhao Zheng, Zhaorun Chen, Chenhang Cui, Mingyu Ding, Linjie Li, Lijuan Wang, Huaxiu Yao, MMIE: Massive Multimodal Interleaved Comprehension Benchmark for Large Vision-Language Models, in *ICLR 2025 (Oral)*. [Paper] [Code] [2024.10]

[2] **Shi Qiu**, Shaoyang Guo, Zhuo-Yang Song, Yunbo Sun, Zeyu Cai, Jiashen Wei, ..., Qing-Hong Cao, Hua Xing Zhu, PHYBench: Holistic Evaluation of Physical Perception and Reasoning in Large Language Models, in *Under Review 2025*. [2025.4]

[3] Yiyang Zhou\*, Linjie Li\*, **Shi Qiu\***, Haibo Tong, Lijuan Wang, Huaxiu Yao, GLIMPSE: VideoLLMs Can Watch but Do They Truly Understand?, in *Under review 2025*. [2025.1]

[4] Wangchunshu Zhou, Yuchen Eleanor Jiang, Long Li, Jialong Wu, **Shi Qiu**, Shuai Wang, Jiamin Chen, Tiannan Wang, Jintian Zhang, Jing Chen, Wentao Zhang, Jiyu Chen, Ruipu Wu, Shiding Zhu, Xiangru Tang, Peng Cui, Huajun Chen, Ningyu Zhang, Mrinmaya Sachan, Agents: An Open-source Framework for Autonomous Language Agents, [Paper], **Github 5.4k stars.**[project] [2023.9]

## HONORS AND AWARDS

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|---|---|
| **Peking University Third Class Scholarship** | **2024** |
| **Peking University Excellence in Research Award** | **2024** |
| **Shu Qi Scholarship (top 5%)** | **2023** |
| **Youth Award For Athletics (Physics Major Representative)** | **2023** |

## RESEARCH EXPERIENCES

**Research Intern at AI4Physics Group at Peking University**                                    2025-Now
Mentor: Prof. Hua Xing Zhu, Prof. Qing-Hong Cao and Prof. Ming-Xing Luo

- Lead researcher and initiator of PHYBench, coordinating 178 students from the School of Physics at Peking University to construct the first high-difficulty physics reasoning benchmark.

- Core contributor to IdeaSearch, dedicated to developing LLM-assisted solutions for optimization problems in physics, especially HEP, Astronomy and Fluid Dynamics.

**Research Intern at UNC-Chapel Hill**                                                          2024-Now
Mentor: Prof. Huaxiu Yao

- Contributed to research on video LLMs alignment and perception. Proposed a benchmark called GLIMPSE to evaluate the perception capabilities of video LLMs[3]. Released a reward model for comprehensive evaluation of generated videos, in project MJ-Bench-Video.

- Contributed to research on multimodal alignment and evaluation. Co-lead the project MMIE for constructing a novel benchmark for multimodal comprehension and reasoning, which contains 20,103 interleaved samples with mllm-as-as-judge scoring metric[1].

### Research Intern at One NLP Lab in Peking University          2023-2025
Mentor: Xiaojun Wan

- Conducted research on multimodal reasoning and evaluation, with the project still in progress. Released a multimodal evaluation model for bidirectional generation between image and text. Paper link at Minos-Paper.

### Research Intern at AIWaves          2023
Mentor: Wangchunshu Zhou

- Participated in research of Self-evolving Agents and autonomous framework for multi-agent systems. Received 5.4k stars on Github repo.

### Project Leader of CourseCommunity          2023-Now
Website: CourseCommunity

- Proposed an open-source, all-for-free platform providing university course notes and self-study guides. Received over 5,000 views and 2,000 downloads at our website.

## EXTRACURRICULAR ACTIVITIES

### President of the Peking University Jump-Rope Team          2023-2024

- Beijing College Shuttlecock and Rope Skipping League: Men's 30-Second Double Under: First Place

- Mixed 1-on-1 30-Second Single Under: Second Place (Broke the event record)

- Consecutive Triple Under: Third Place

### Class Monitor of Class 8 in the 22nd Undergraduate Cohort          2022-Now

## ACADEMIC SKILLS

### English Skills

  – GRE **326**          2025
  – TOEFL **112**          2024
  – CET **696**          2023