

Jialuo Li

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EDUCATION

Yao Class, Institute for Interdisciplinary Information, Tsinghua University Sept. 2021 - Present
Bachelor of Engineering in Computer Science and Technology. GPA 3.81/4.00

RESEARCH EXPERIENCES

Research on design of profile systems for customer service with LLMs Sept. 2023 – May. 2024
Student Research Beijing, China

- Integrate LLMs into customer service systems, enabling these models to effectively access, interpret, and interact with user information in existing databases and utilize guiding documents to handle common inquiries.
- Develop a modular architecture with a classifier-executor-verifier system: the classifier directs requests, the executor handles tasks or responses, and the verifier ensures accuracy and safety through feedback.

Research on physics reasoning capability in text-to-image synthesis Feb. 2024 – Present
Research intern, advised by Saining Xie at NYU NY, NY, USA

- Investigate and detect physics anomalies in current state-of-the-art text-to-image (T2I) models by identifying inconsistencies or deviations from physical laws and principles within the generated images.
- Systematically gather diverse data by developing an expert-annotated adversarial dataset. Leverage it to develop post-training algorithms using flow matching and supervised fine-tuning for domain adaptation.

Research on vision-centric VideoLLM benchmark Sept. 2024 – present
Research intern, Mentored by Bin Li at MSRA Beijing, China

- Detect that VideoLLM benchmarks are predominantly composed of temporally unrelated questions, thereby allowing VideoLLMs to rely more heavily on linguistic cues rather than inherent visual processing capabilities.
- Aim to collect or generate tasks that require strong temporal understanding and vision ability.

PUBLICATIONS AND MANUSCRIPTS

(* stands for equal contribution.)

- [1] **(Under Review)** Jialuo Li, Wenhao Chai, Xingyu Fu, Haiyang Xu, Saining Xie. “SciBench: Addressing Scientific Illusions in Image Synthesis.” [PDF]
- [2] **(COLM 2024)** Jingzhe Shi, Jialuo Li, Qinwei Ma, Zaiwen Yang, Huan Ma, Lei Li. “CHOPS: Chat with Customer Profile Systems for Customer Service with LLMs.” [PDF]

AWARDS AND SCHOLARSHIPS

Scholarships

Social Worker Merit Scholarship of Tsinghua	Oct. 2022
Social Worker Merit Scholarship of Tsinghua	Oct. 2023
Second-Class Freshmen Scholarship of Tsinghua	Nov. 2021

Competitive Physics in High School

1st Prize in National High School Physics Olympics Competition (10th Place Nationwide)	Nov. 2020
National Team member of China for Asian Physics Olympiad (APhO)	Feb. 2021 - May. 2021

SKILLS

Programming languages: Python, Pytorch, C++, Bash, Matlab

Leadership: Class monitor of Yao Class from 2022 to 2023; president of the IIIS Student Union Organization Group from 2022 to 2024; CPHO-S co-founder, former tech group leader, council member.

Miscellaneous: Ball Sports Enthusiasts – basketball, soccer, pingpong, badminton.