Haoquan Zhang - 张皓泉

AI Researcher

📞 +86 18938665901 • @ haoquanzhang@outlook.com •
🔗 https://haoquanzhang.github.io/

Research Interests

Vision-Language Representation Learning

How to understand their representations? How to align them? How to utilize them?

◆ ◆ ◆ ◆ ◆

Computer Graphics

How to convert a low-resolution bitmap image into a clear vector graphic?

◆ ◆ ◆ ◇ ◇

Languages

Mandarin

Native Speaker

◆ ◆ ◆ ◆ ◆

English

Fluent

◆ ◆ ◆ ◆ ◇

Hobbies

Anime

Music Production

Electronic and R&B

Graphic design

Feel free to contact me

I look forward to exchanging ideas and engaging in friendly collaboration.

About

Hi, my name is Haoquan Zhang, a final-year undergraduate majoring in Data Science at South China University of Technology (SCUT), and also an incoming phd student to join The Chinese University of Hong Kong (CUHK), advice by Prof. Weiyang Liu. Currently, I am collaborating with Dr. Peng Gao and Dr. Kaipeng Zhang @Shanghai AI Lab to address challenges in LM Reasoning.

Experience

Shanghai AI Lab	Shanghai, China	Westlake University	Singapore
Research Intern		Visiting Student	
	10/15 - Present		10/28 - Present

Education

The Chinese University of Hong Kong	Incoming PhD Student
Artificial Intelligence, Deep Learning	
South China University of Technology	
Data Science and Big Data Technology	

Publications

Mask4Align: Aligned Entity Prompting with Color Masks for Multi-Entity Localization Problems
CVPR 2024

The existing VQA dataset cannot adequately cover scenarios involving multiple entities. Therefore, we introduce a Mask for Align (Mask4Align) method to determine the entity's position in the given image that best matches the user input question. This method incorporates colored masks into the image, enabling the VQA model to handle discrimination and localization challenges associated with multiple entities.

Awards

TaiHu Innovation Prize	2024	National Second Prize	2023
Wuxi governments		China Society of Biomedical Engineering	