

# Guohao Sun

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## Areas of specialisation

**Research interest:** I am drawn to simplicity, strive to understand things deeply, and enjoy building practical systems. Currently, I am fascinated by **multi-modal** foundation models like GPT-4o and CLIP, which can be adapted to a wide range of downstream tasks. My focus is on understanding how these models work, and improving their reasoning ability and robustness with **self-questioning**, **preference optimization** and **evidential knowledge**.

**Topics:** General-purpose Vision-Language Understanding, Evidential Learning

**Skills:** Python, PyTorch, C++

## Work experience

2019-2021 **Software Engineer**, Robotrak Technologies Co., Ltd., China

## Education

2023 **PH.D. in Computing and Information Science**, Rochester Institute of Technology, **Advisor:** Dr. Zhiqiang Tao  
2021 **M.S. in Computer Science**, Santa Clara University, **Advisor:** Dr. Zhiqiang Tao  
2014 **B.S. in Computer Science and Engineering**, Michigan State University

## Honours & awards

2022 4th place, Hackathon: Hack for Humanity, Santa Clara University  
2015 Academic Excellence Award, Michigan State University

## Publications

### PEER-REVIEWED CONFERENCE ARTICLES

2024 **Guohao Sun**, Can Qin, Huazhu Fu, Linwei Wang, Zhiqiang Tao. “STLLaVA-Med: Self-Training Large Language and Vision Assistant for Medical Question-Answering”, *Empirical Methods in Natural Language Processing (EMNLP)*[[code](#)]  
2024 **Guohao Sun**, Can Qin, Jiamian Wang, Zeyuan Chen, Ran Xu, Zhiqiang Tao. “SQ-LLaVA: Self-Questioning for Large Vision-Language Assistant”, *European Conference on Computer Vision (ECCV)*[[code](#)]  
2024 Cheng Han, Yawen Lu, **Guohao Sun**, James Chenhao Liang, Zhiwen Cao, Qifan Wang, Qiang Guan, Sohail Dianat, Raghuveer Rao, Tong Geng, Zhiqiang Tao, Dongfang Liu. “Prototypical Transformer As Unified Motion Learners”, *International Conference on Machine Learning (ICML)*[[code](#)]  
2024 Jiamian Wang, **Guohao Sun**, Pichao Wang, Dongfang Liu, Sohail Dianat, Majid Rabbani, Raghuveer Rao, Zhiqiang Tao. “Text Is MASS: Modeling as Stochastic Embedding for Text-Video Retrieval”, *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*[[code](#)][[poster](#)][[video](#)]  
2024 **Guohao Sun**, Yue Bai, Xueying Yang, Yi Fang, Yun Fu, Zhiqiang Tao. “Aligning Out-of-Distribution Web Images and Caption Semantics via Evidential Learning”, *The ACM Web Conference (WWW)*[[code](#)]

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