

# Guohao Sun

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## Areas of specialisation

**Broadly:** I am drawn to simplicity, strive to understand things deeply, and enjoy building practical systems. Currently, I am fascinated by foundation models like GPT-4, CLIP, and LLaMA. These models, trained on extensive data using self-supervision at an immense scale, can be adapted to a wide range of downstream tasks. My focus is on understanding how these models work, and improving their intelligence and robustness with **multi-modal** information.

**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

2021     **M.S. in Computer Science**, Santa Clara University

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)*

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)*, <https://github.com/helioosun/SQ-LLaVA>

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)*

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)*

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)*

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