GUOHAO SUN

School of Information ⬦ B. Thomas Golisano College of Computing and Information Sciences

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EDUCATION

Ph.D. in Computing and Information Science, Rochester Institute of Technology   Aug, 2026 (expected)
   Advisor: Dr. Zhiqiang Tao

M.S. in Computer Science, Santa Clara University   Dec, 2023

B.S. in Computer Science and Engineering, Michigan State University   Dec, 2018

AREAS OF SPECIALIZATION

- **Research Interests:** 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, Generative model, LLM, LVLM

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

WORKING EXPERIENCE

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

PEER-REVIEWED CONFERENCE ARTICLES

1. **Guohao Sun**, Can Qin, Huazhu Fu, Linwei Wang, Zhiqiang Tao. STLLaVA-Med: Self-Training Large Language and Vision Assistant for Medical Question-Answering, *EMNLP 2024*   [code]

2. **Guohao Sun**, Can Qin, Jiamian Wang, Zeyuan Chen, Ran Xu, Zhiqiang Tao. SQ-LLaVA: Self-Questioning for Large Vision-Language Assistant, *ECCV 2024*   [code] [poster]

3. 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, *ICML 2024*   [code]

4. 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, *CVPR 2024*   [code]

5. **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) 2024*   [code]

UNDER REVIEW

1. Haowei Lin, Xuyang Wu, **Guohao Sun**, Zhiqiang Tao, Yi Fang. ChainRank-DPO: Chain Rank Direct Preference Optimization for LLM Rankers.

HONOURS & AWARDS

2022	**4th Top Award**, Hackathon: Hack for Humanity	Santa Clara University, CA
2015	**Academic Excellence Award**	Michigan State University, MI