

Haoqiang (Murray) Kang

+1-206-384-6726 | haoqik88@gmail.com | [mk322.github.io](https://github.com/mk322)

Bellevue, WA 98004

RESEARCH TOPICS

My research goal is to develop scalable technique to advance the general intelligence of large models, including **LLMs**, **VLMs**, **MLLMs**, and **diffusion models**, by enhancing their **reasoning and planning** abilities. Additionally, I am passionate about solving real-world problems in **embodied AI** through these advancements.

EDUCATION BACKGROUND

- **University of California San Diego (UCSD)** 09/2024 - present
Ph.D. in Computer Science
◦ Advisor: Lianhui Qin La Jolla, CA
- **University of Washington (UW)** 09/2019 - 06/2023
B.S. in Computer Science
◦ Advisor: Luke Zettlemoyer Seattle, WA

PUBLICATIONS / PREPRINTS

- [1] [Haoqiang Kang](#), Enna Sachdeva, Piyush Gupta, Sangjae Bae, Kwonjoon Lee (2024). **GFlowVLM: Enhancing Multi-step Reasoning in Vision-Language Models with Generative Flow Networks**. Under Review for *CVPR 2025*.
- [2] Fangxu Yu, Lai Jiang, [Haoqiang Kang](#), Shibo Hao, Lianhui Qin (2024). **Flow of Reasoning: Training LLMs for divergent problem solving with minimal examples**. Under Review for *ICLR 2025*.
- [3] [Haoqiang Kang](#), Terra Blevins, and Luke Zettlemoyer. (2024). **Comparing hallucination detection metrics for multilingual generation**. Under Review for *NAACL 2024*.
- [4] [Haoqiang Kang](#), Juntong Ni, and Huaxiu Yao. (2024). **EVER: Mitigating Hallucination in Large Language Models through Real-Time Verification and Rectification**.
- [5] [Haoqiang Kang](#) and Xiao-Yang Liu. (2023). **Deficiency of Large Language Models in Finance: An Empirical Examination of Hallucination**. In *NeurIPS Workshop on I Can't Believe It's Not Better (ICBINB)*.
- [6] [Haoqiang Kang*](#), Terra Blevins*, and Luke Zettlemoyer. (2024). **Translate to Disambiguate: Zero-shot Multilingual Word Sense Disambiguation with Pretrained Language Models**. In *Proceedings of the European Chapter of the Association for Computational Linguistics (EACL) Main Conference*, **Oral Presentation**.
- [7] Qianqian Xie, Weiguang Han, Xiao Zhang, ..., [Haoqiang Kang](#), ... (2024). **The FinBen: A Holistic Financial Benchmark for Large Language Models**. In *NeurIPS Datasets and Benchmarks (D&B) Track*.
- [8] Reliable and Responsible Foundation Models: A Survey. (Contributed to LLM hallucination section).

EXPERIENCE

- **Honda Research Institute** 05/2024 - 09/2024
Research Intern
◦ Conducted research to enhance the reasoning capabilities of Vision-Language Models (VLMs).
◦ Developed methods leveraging GFlowNets to improve general reasoning in embodied planning tasks. San Jose, CA
- **Columbia University** 08/2023 - 05/2024
Research Intern
◦ Investigated hallucination issues in Large Language Models for financial applications.
◦ Implemented LLM-based agents to process and analyze XBRL files in the finance domain. Remote
- **Z-Lab in University of Washington** 09/2022 - 05/2024
Research Assistant
◦ Conducted research on multilingual word sense disambiguation using Pretrained Language Models.
◦ Evaluated and analyzed multilingual hallucination in LLMs. Seattle

SERVICE

- **Peer Review:** ICLR, NeurIPS, ACL, EMNLP

SKILLS

- **Programming Languages:** Python, Java
- **Research Skills:** Large Language Models, Multi-modal Language Models, Video Generation, Reinforcement Learning, Computer Vision, Deep Learning, Embodied AI

ADDITIONAL INFORMATION

Languages: English, Chinese

Interests: Basketball, Hip-Hop Music