MENGKANG HU

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Education

The University of Hong Kong   **Aug 2023 – Present**
Ph.D. in Natural Language Processing; Supervised by Prof. Ping Luo in HKU-MMLAB   *Hong Kong SAR, China*

Harbin Institute of Technology   **Aug 2019 – June 2023**
*Bachelor in Computer Science; **GPA**: 94.48/100; **Ranking**: 3/145*   *Harbin, China*

Experience

Shanghai Artificial Intelligence Laboratory   **Feb 2023 - Present**
Research Internship in Large Language Models (Hybrid)   *Shanghai, China*
- Mainly focus on better use of LLMs in Embodied AI (efficiency, world modeling). Participated in the one projects as lead researcher supervised by Dr. Wenqi Shao.

Huawei Noah's Ark Lab   **Sept 2022 - Jan 2023**
Research Internship in Embodied AI (On-Site)   *Beijing, China*
- Mainly focus on empowering robotic systems with LLMs. Participated in the two projects as lead researcher and one project as key researcher supervised by Dr. Bin Wang, Dr. Shiguang Wu and Prof. Jianye Hao.

Microsoft Research Asia (MSRA)   **Feb 2022 - Sept 2022**
Research Internship in Natural Language Processing (Hybrid)   *Beijing, China*
- Mainly focus on intersection of TableQA and Knowledge Graph. Participated in the one project as lead researcher and one project as key researcher supervised by SR. Haoyu Dong and SR. Research Manager Shi Han.

Massive Data Computing Research Center, HIT   **Sept 2020 - Feb 2022**
Student Intern (On-Site)   *Harbin, China*
- Mainly focus on Knowledge Graph Embedding. Participated in the one project as lead researcher under the supervision of Prof. Hongzhi Wang.

Publications

Tree-Planner: Efficient Close-loop Task Planning with Large Language Models   **Jan 2023 - Aug 2023**
***Mengkang Hu**, Yao Mu, Xinmiao Yu, Mingyu Ding, ...*   *ICLR 2024*

KET-QA: A Dataset for Knowledge Enhanced Table Question Answering   **Aug 2022 - May 2023**
***Mengkang Hu**, Haoyu Dong, Ping Luo, Shi Han ...*   *Submitted to COLING 2024*

EmbodiedGPT: Vision-Language Pre-Training via Embodied Chain of Thought   **Nov 2022 - May 2023**
*Yao Mu, Qinglong Zhang, **Mengkang Hu**, Wenhai Wang, ...*   *Neurips 2023 Spotlight*

Tacube: Pre-computing data cubes for numerical-reasoning over tabular data   **Feb 2022 - June 2022**
*Fan Zhou, **Mengkang Hu**, Haoyu Dong, ...*   *EMNLP 2022 Oral*

Honors

National Scholarship   Top 1% in HIT, Ministry of Education, China, Oct 2021

First-Class Scholarship, five times   Top 10% in HIT, Ministry of Education, China, 2019 - 2022

National First Prize in Mathematical Contest in Modeling   Top 1% in China, Autumn 2020

Mathematical Contest in Modeling, Meritorious Winner, twice   Top 13% worldwide, Spring 2020, 2021

National Third Prize in The 14th International Contest of innovAtioN   Top 5% in China, Autumn 2020

Technical Skills

Programming Languages: Python >> C, Java > SQL > HTML/CSS, Javascript, Selenium, etc.
Languages: Chinese (Native Speaker), English (7.5 in IELTS)
Background Knowledge: NLP (Large Language Models, Structured Knowledge), Robotics (Embodied AI, Task Planning)