# Huanxuan Liao (廖桓萱)

huanxuanliao@gmail.com · 18073611917 · Xnhyacinth · https://xnhyacinth.github.io/

## Education

**Institute of Automation, Chinese Academy of Sciences (CASIA)**, Beijing 2023 – Now
*M.S.* in Computer Science. In NLPR, Supervisor: Shizhu He

**North China Electric Power University (NCEPU)**, Beijing 2019 – 2023
*Bachelor of Engineering* in Intelligence Science and Technology (Innovation Class). Ranking 1/13

## Research Interests

- Large Language Model / Multimodal Large Language Model
- Long Context Modeling & Length Extrapolation
- Natural Language Reasoning / Question Answering
- Compression / KV Cache

## Publications

(* stands for equal contribution; Listed in reverse chronological order.)

[7] **Huanxuan Liao**, Shizhu He, Yupu Hao, Xiang Li, Yuanzhe Zhang, Kang Liu, Jun Zhao. SKIntern: Internalizing Symbolic Knowledge for Distilling Better CoT Capabilities into Small Language Models. (COLING 2025, CCF-B)

[6] **Huanxuan Liao**, Shizhu He, Yao Xu, Yuanzhe Zhang, Kang Liu, Jun Zhao. Neural-Symbolic Collaborative Distillation: Advancing Small Language Models for Complex Reasoning Tasks. (Preprint, 2024)

[5] Yupu Hao, Pengfei Cao, Zhuoran Jin, **Huanxuan Liao**, Yubo Chen, Kang Liu, Jun Zhao. CITI: Enhancing Tool Utilizing Ability in Large Language Models without Sacrificing General Performance. (Preprint, 2024)

[4] **Huanxuan Liao**, Shizhu He, Yao Xu, Yuanzhe Zhang, Yanchao Hao, Shengping Liu, Kang Liu, Jun Zhao. From Instance Training to Instruction Learning: Task Adapters Generation from Instructions. (NeurIPS 2024, CCF-A)

[3] **Huanxuan Liao**, Shizhu He, Yao Xu, Yuanzhe Zhang, Kang Liu, Shengping Liu, Jun Zhao. Imagination Augmented Generation: Learning to Imagine Richer Context for Question Answering over Large Language Models. (COLING 2025, CCF-B)

[2] Yixuan Weng, Zhiqi Wang, **Huanxuan Liao**, Shizhu He, Shengping Liu, Kang Liu, Jun Zhao. LMTuner: An user-friendly and highly-integrable Training Framework for fine-tuning Large Language Models. (Preprint, 2023)

[1] **Huanxuan Liao**, Shizhu He, Yao Xu, Kang Liu, Jun Zhao. Dynamic Weighted Neural Bellman-Ford Network for Knowledge Graph Reasoning. (CCKS 2023, Springer)

## Awards and Scholarships

### Scholarships & Awards

Beijing Outstanding Graduate Awards, Beijing Ministry of Education Jun. 2023
China National Scholarship *(top scholarship in China; 0.2% domestically)*, Ministry of Education Dec. 2022
China National Scholarship *(top scholarship in China; 0.2% domestically)*, Ministry of Education Dec. 2021
SiFang Society Scholarship, NCEPU Dec. 2020

### Competition

National Third Prize, Information Security Competition Aug. 2022
National Excellence, College Student Innovation and Entrepreneurship Project Dec. 2021
Beijing Third Prize, Internet + Aug. 2021

## Professional Services

**Conference Reviewing**: ARR 2024