

郝千越

✉ haoqianyue@hotmail.com · 🌐 <https://haohaoqian.github.io>

🎓 教育经历

| | |
|--|-------------------|
| 清华大学 电子工程系 | 2018.08 – 2022.06 |
| 工学学士, GPA 3.80/4.00 (排名 Top 10%), 优秀毕业论文 | |
| 清华大学 电子工程系 | 2022.08 – 今 |
| 工学博士在读 | |

📊 科研工作

研究方向: 强化学习 (RL), 大语言模型 (LLMs)

- 大语言模型后训练、推理时的强化学习技术
近期探索, 预印本
- 大语言模型在文本挖掘任务中的应用
代表工作: Nature, NeurIPS'25 (spotlight), NeurIPS'24
- 强化学习在大规模决策任务中的应用
代表工作: KDD'25, KDD'24, KDD'23, KDD'22, KDD'21

会议论文

- [NeurIPS'25 (spotlight)] LLM-Explorer: A Plug-in Reinforcement Learning Policy Exploration Enhancement Driven by Large Language Models
Qianyue Hao, Yiwen Song*, Qingmin Liao, Jian Yuan, Yong Li*
- [NeurIPS'24] HLM-Cite: Hybrid Language Model Workflow for Text-based Scientific Citation Prediction
Qianyue Hao, Jingyang Fan, Fengli Xu, Jian Yuan, Yong Li
- [KDD'25] CoopRide: Cooperate All Grids in City-Scale Ride-Hailing Dispatching with Multi-Agent Reinforcement Learning
Jingwei Wang, Qianyue Hao*, Wenzhen Huang, Xiaochen Fan, Qin Zhang, Zhentao Tang, Bin Wang, Jianye Hao, Yong Li*
- [KDD'24] DyPS: Dynamic Parameter Sharing in Multi-Agent Reinforcement Learning for Spatio-Temporal Resource Allocation
Jingwei Wang, Qianyue Hao*, Wenzhen Huang, Xiaochen Fan, Zhentao Tang, Bin Wang, Jianye Hao, Yong Li*
- [KDD'23] GAT-MF: Graph Attention Mean Field for Very Large Scale Multi-Agent Reinforcement Learning
Qianyue Hao, Wenzhen Huang, Tao Feng, Jian Yuan, Yong Li
- [KDD'22] Reinforcement Learning Enhances the Experts: Large-scale COVID-19 Vaccine Allocation with Multi-factor Contact Network
Qianyue Hao, Wenzhen Huang, Fengli Xu, Kun Tang, Yong Li
- [KDD'21] Hierarchical Reinforcement Learning for Scarce Medical Resource Allocation with Imperfect Information
Qianyue Hao, Fengli Xu, Lin Chen, Pan Hui, Yong Li
- [KDD'20] Understanding the Urban Pandemic Spreading of COVID-19 with Real World Mobility Data
Qianyue Hao, Lin Chen*, Fengli Xu, Yong Li*
- [CIKM'25] CityLight: A Neighborhood-inclusive Universal Model for Coordinated City-scale Traffic Signal Control
Jinwei Zeng, Chao Yu, Xinyi Yang, Wenxuan Ao, Qianyue Hao, Jian Yuan, Yong Li, Yu Wang, Huazhong Yang

期刊论文

- [Nature (to be appear)] AI Expands Scientists' Impact but Contracts Science's Focus
Qianyue Hao, Fengli Xu, Yong Li, James Evans
- [Patterns] Toward Large Reasoning Models: A Survey of Reinforced Reasoning with Large Language Models
Fengli Xu, Qianyue Hao*, Chenyang Shao*, Zefang Zong*, Yu Li*, Jingwei Wang, Yunke Zhang, Jingyi Wang,*

Xiaochong Lan, Jiahui Gong, Tianjian Ouyang, Fanjin Meng, Yuwei Yan, Qinglong Yang, Yiwen Song, Sijian Ren, Xinyuan Hu, Jie Feng, Chen Gao, Yong Li

- [TIST] Hierarchical Multi-agent Model for Reinforced Medical Resource Allocation with Imperfect Information

Qianyue Hao, Fengli Xu, Lin Chen, Pan Hui, Yong Li

- [CSUR] A Survey of Machine Learning for Urban Decision Making: Applications in Planning, Transportation, and Healthcare

Yu Zheng, Qianyue Hao, Jingwei Wang, Changzheng Gao, Jinwei Chen, Depeng Jin, Yong Li

预印本

- [arxiv] RL of Thoughts: Navigating LLM Reasoning with Inference-time Reinforcement Learning
Qianyue Hao*, Sibo Li*, Jian Yuan, Yong Li
- [arxiv] KeyWorld: Key Frame Reasoning Enables Effective and Efficient World Models
Sibo Li*, Qianyue Hao*, Yu Shang, Yong Li
- [arxiv] Reinforcement Learning Fine-Tuning Enhances Activation Intensity and Diversity in the Internal Circuitry of LLMs
Honglin Zhang*, Qianyue Hao*, Fengli Xu, Yong Li
- [arxiv] Multiple Weaks Win Single Strong: Large Language Models Ensemble Weak Reinforcement Learning Agents into a Supreme One
Yiwen Song*, Qianyue Hao*, Qingmin Liao, Jian Yuan, Yong Li
- [ResearchGate] Reinforcement Learning in the Era of Large Language Models: Challenges and Opportunities
Qianyue Hao, Lin Chen, Xiaoqian Qi, Yuan Yuan, Zefang Zong, Hongyi Chen, Keyu Zhao, Shengyuan Wang, Yunke Zhang, Jian Yuan, Yong Li
- [arxiv] A Survey on Human-Centric LLMs
Jing Yi Wang, Nicholas Sukiennik, Tong Li, Weikang Su, Qianyue Hao, Jingbo Xu, Zihan Huang, Fengli Xu, Yong Li

实习经历

斯伦贝谢, 实习算法工程师

2024.07 – 2024.08

- 石油地质探测项目，包括训练数据合成，强化学习智能体的训练与评估
- 获得项目负责人积极评价，相关成果国际专利申请中

字节跳动, 实习算法工程师

2021.06 – 2021.09

- 游戏 AI 项目，包括强化学习智能体的训练与评估，以及智能体性能预测
- 获得项目负责人积极评价

获奖经历

| | |
|-------------------|---------|
| 研究生综合奖学金, 清华大学 | 2025.10 |
| 研究生综合奖学金, 清华大学电子系 | 2023.10 |
| 本科优秀毕业论文, 清华大学 | 2022.06 |
| 本科生国家奖学金, 教育部 | 2021.10 |
| 本科生综合奖学金, 清华大学 | 2020.10 |