

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 (accept in principle)]** 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 Weak 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
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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