

QIANYUE HAO 郝千越

✉ hqy22@mails.tsinghua.edu.cn · ☎ (+86) 18612112386 · 📠 haoqianyue666

🎓 EDUCATION

Department of Electronic Engineering, Tsinghua University 2018.9 – 2022.6

Bachelor in Engineering, Electronic Engineering and Information Science Technology

Department of Electronic Engineering, Tsinghua University 2022.9 – Now

PhD in Engineering, Information Science Technology

📖 COURSE AND GRAD

- **Undergraduate GPA 3.80/4.00**
- **PhD GPA 3.83/4.00**
- **Grad of Core Courses**
 - A Program Design
 - A Data Structure and Algorithm
 - A Database
 - A+ Media and Cognition (Machine Learning and Computer Vision)
 - A Audio and Vision Information System
 - A Digital Logic and Processors
 - A Digital System Design
 - A Advanced Numerical Analysis

⚙️ SKILLS

- Programming Language: Python, C/C++, Matlab, Mips Assembly, Verilog
- Deep Learning: PyTorch
- High Performance Computing: Spark
- Language: Chinese/English listening, speaking, reading and writing

📊 RESEARCH

Intelligence LAB, Department of Electronic Engineering, Tsinghua University 2019.10 – Now

Advisor: Yong Li 李勇

Research Interest: Data Mining, Reinforcement Learning

Reinforcement Learning for Large-scale Decision Making

- Qianyue Hao, et al. "GAT-MF: Graph Attention Mean Field for Very Large Scale Multi-Agent Reinforcement Learning." (First author, KDD'23)
- Qianyue Hao, et al. "Hierarchical Multi-agent Model for Reinforced Medical Resource Allocation with Imperfect Information." (First author, TIST'23)
- Qianyue Hao, et al. "Reinforcement Learning Enhances the Experts: Large-scale COVID-19 Vaccine Allocation with Multi-factor Contact Network." (First author, KDD'22)
- Qianyue Hao, et al. "Hierarchical Reinforcement Learning for Scarce Medical Resource Allocation with Imperfect Information." (First author, KDD'21)

Data Mining and Simulation

- Qianyue Hao, et al. "Understanding the Urban Pandemic Spreading of COVID-19 with Real World Mobility Data." (First author, KDD'20)
- Qianyue Hao, et al. "Getting Back on Track: Understanding COVID-19 Impact on Urban Mobility and Segregation with Location Service Data." (Third author, ICWSM'23)
- Qianyue Hao, et al. "How enlightened self-interest guided global vaccine sharing benefits all: A modeling study." (Third author, Journal of Global Health'23)

INTERNSHIP

ByteDance Intern AI Engineer

2021.6 – 2021.9

- This project targets game AI, including generation of training data, model training and online deployment. We finally completes the model driving of an AI character in an online game.
- I completed all tasks well and received a 100-point evaluation from the internship project leader.

SCHOLARSHIP

Graduate Student Scholarship , Department of Electronic Engineering, Tsinghua University	2023.10
Outstanding Undergraduate Graduates , Tsinghua University	2022.06
National Scholarship , Ministry of Education of the PRC	2021.10
Undergraduate Student Scholarship , Tsinghua University	2020.10
Social Practice Outstanding Scholarship , Tsinghua University	2019.10
Sports Outstanding Scholarship , Tsinghua University	2019.10