Tianyang Tao

tianyang.tt@gmail.com | +65 89419304

EDUCATION

Université Paris-Saclay

Master in Artificial Intelligence

• Main Course: Learning theory and advanced machine learning, Advanced optimization

University of Chinese Academy of Sciences

Master in Electronic and Information Engineering (quit)

• Main Course: Advanced Algorithm - Design and Analysis, Machine Learning, Stochastic Processes

Peking University

B.S. in Physics / B.S. in Computer Science and Technology

• Main Course: Algebraic Structure and Combinatorial Mathematics, Elementary Number Theory and Its Applications, Introduction to Theoretical Computer Science, Algorithmic game theory, Information Theory, Methods of Mathematical Physics

RESEARCH EXPERIENCE

National University of Singapore

Research Assistant, Advised by Jiaheng Zhang

- Participated in seminars, studying classic and cutting-edge papers in applied cryptography, especially zero-knowledge proofs.
- Worked on AI security and submitted a paper.
- Worked on zero-knowledge machine learning and submitted a paper.

Institute of Automation, CAS

Research Assistant, Advised by Bo Xu

- Participated in seminars, studying classic and cutting-edge papers in reinforcement learning.
- Worked on efficient multi-task DRL algorithm frameworks and published a AAAI paper.

Institute of Computing Technology, CAS

Research Internship, Advised by Xiaoming Sun and Guojing Tian

- Participated in seminars, studying and working through exercises from the book Computational Complexity.
- Worked on several theoretical computer science problems but didn't get any results.

PROJECT

Mahjong AI

A competitive agent implemented in C++

- Secured a position as a finalist in the IJCAI 2020 Mahjong AI Competition, earning a \$1000 prize.
- Achieved 1st place in the 15th National Computer Games Tournament Mahjong Track.

PUBLICATIONS

- Provably Robust Multi-bit Watermarking for AI-generated Text via Error Correction Code Wenjie Qu, Dong Yin, Zixin He, Wei Zou, Tianyang Tao, Jinyuan Jia, Jiaheng Zhang. (Submitted)
- PiCor: Multi-Task Deep Reinforcement Learning with Policy Correction Fengshuo Bai, Hongming Zhang, Tianyang Tao, Zhiheng Wu, Yanna Wang, Bo Xu. (Accepted by AAAI 2023)

AWARDS

Programming Competition	
The 18th Peking University Collegiate Programming Contest (3rd Prize)	May 2019
 The 2018 ACM-ICPC Asia Beijing Reginal Contest (Bronze, unofficial team) 	Dec. 2018
Game AI Competition	
Kaggle Lux AI Challenge (Silver, 25/1178)	Dec. 2021
NeurIPS 2021 MineRL Competition Intro Track (3rd)	Oct. 2021
The 10th Peking University Game AI Competition (Top 8 / 223)	June 2018

SKILLS & OTHERS

Languages: Native in Mandarin, Fluent in English (IELTS 6.5) Technical Skills: Python, C++, Mathematica Interests: Rock climbing, Tree climbing, Skiing **PARIS** Sept. 2022 – Present

BEIJING Sept. 2020 – July 2022

BEIJING Sept. 2016 - July 2020

BEIJING Sept. 2021 - July 2022

ONLINE / SINGAPORE

July. 2023 - Present

BEIJING

Mar. 2021 - July 2021