

Xin Liang

Gmail | GitHub

EDUCATION

Tong Ji University
a Sophomore in Software Engineering

Shanghai, China
Apr 2021 – Present

Tong Ji University
a Freshman in Architecture and Urban Planning

Shanghai, China
Apr 2020 – 2021

RESEARCH INTERESTS

Currently my research interests lie in **Reinforcement Learning**. During my **undergraduate** research, I really enjoyed the focusing state of working on one thing and the sense of excitement when successfully working problems out . I think it is interest and challenging to design algorithmic models to solve real-world problems by utilizing knowledge on math and statistics. I would love to be able to **explore more knowledge** in various related fields.

RESEARCH EXPERIENCE

Tongji University
NAMI Lab, Research Assistant

Oct 2022 – Present

- A patent in preparation proposes an algorithm for **optimizing** the gradient problem in **DARTS** , and the corresponding paper was accepted for presentation at ICASSP 2023.
- Learning **Monte Carlo Trees** , using **pytorch** ,python to optimize the Chinese chess code based on **AlphaZero** , adding **behavioural clones** and then doing reinforcement learning to train the strategy network.

Tongji-MIT City Science Lab
Scientific Intern, DApp-smart contract Group

Jan 2023 – Present

- Worked with **Solidity** to develop smart contract based on specific modules
- Research into **DApp development architecture** , using **Hardhat** etc. to interface smart contract with front-end and back-end interactions
- Deploy **ABDK Library** to solve the problem of solidity not supporting floating point operations

TECHNICAL SKILLS

Languages : C/C++, Python, Solidity, MATLAB, HTML, CSS
Machine Learning : PyTorch, TensorFlow
Databases : MySQL
Design and Modeling : Adobe PS/AI/ID/PR/AE, Unity3D, AutoCAD, Rhino, SketchUp
Web3 and Blockchain : Polygon(Solidity), Hardhat, Remix

AWARDS

- Second Prize of Asia Pacific Cup Mathematical Modeling –Feb 2023
- National Inspirational Scholarship –Sept 2021 – Jan 2022
- Third Prize of Shanghai National University Student Mathematical Modeling –Jan 2022
- Second Prize in The Mathematics Modeling Competition of Tongji University –May 2021
- “Internet + ” University Students Innovation and Entrepreneurship Competition Tongji School Bronze Award –Sept 2022
- National Inspirational Scholarship –Sept 2020 – Jan 2021