# 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 Oct 2022 – Present

NAMI Lab, Research Assistant Shanghai

 A patent in preparation proposes an algorithm foroptimizing 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

Jan 2023 - Present

Scientific Intern, DApp-smart contract Group Shanghai

- Worked with **Solidity** to develop smart contract based on specific modules
- Research intoDApp development architecture, using Hardhat etc. to interface smart contrat 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