

Boxin (David) Zhang

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EDUCATION

Stanford University

Stanford, CA

M.S. in Computer Science (GPA: 3.9/4.0), B.S. in Physics (GPA: 3.9/4.0)

Expected Dec. 2024

Relevant Coursework (Ph.D. Level)

CS: Machine Learning, NLP, Computer Vision with Deep Learning, Operating Systems, Algorithms and Data Structures

Math & Physics: Statistical Learning, Statistical Inference, Probability Theory, Lagrangian Mechanics, Statistical Mechanics

Honors:

1. Admittance to the Summer Science Program in Astrophysics (**only** admitted applicant from China, 0.7% acceptance rate)
2. International Mathematical Modeling Challenge, Finalist (top 3 / 300+) teams

INTERNSHIP

HAP Capital

New York, NY

Quantitative Researcher Intern (Options Team)

Jun. 2024 – Present

- Received **outstanding** feedback from the team for demonstrating **exemplary creativity** and **high research standards**
- Built three **ML models** from scratch and developed innovative volatility-based features to **predict hidden liquidity events**
- Enhanced predictions by leveraging stock **covariance relations** and developing clusters inspired by **astrophysics principles**
- Identified 50+ **profitable events** in advance using models, which were subsequently deployed as a team tool in production

JQ Investments

Beijing, China

Quantitative Researcher Intern (Mid-Frequency Team)

Jun. 2023 – Jul. 2023

- Received **exceptionally positive** feedback from partners for displaying high standards of research and communication
- Implemented the **statistical arbitrage** strategy of pairs trading to identify mid-frequency drivers in China's futures market
- Investigated pair correlation anomalies using **pulse signal analysis** and designed features to capture abnormal profits

Stanford Computational Astrophysics Lab (KIPAC)

Stanford, CA

Research Intern

Apr. 2021 – May. 2021 / Jun. 2022 – Sept. 2022 / Apr. 2023 – Jun. 2023

- **Rated as the top undergrad researcher (out of 40+)** by developing and presenting an original galaxy-halo model at SLAC
- Developed the **statistical model** by cleaning **1TB** of cosmic data, identifying significant physical parameters, splitting data on each parameter, and validating results of simulations to describe galaxy-dark matter mass loss relationship

Key Lab of Particle Astrophysics, Chinese Academy of Sciences

Beijing, China

Research Intern

Dec. 2020 – Mar. 2021

- **Independently developed a satellite tracking system** that recovers the positioning ability of a malfunctioning satellite
- Designed multiple additional features (e.g., joint observation scheduling) based on **orbital mechanics**, **numerical analysis**, and **Python programming** according to the requirement of 5 different sub-teams; published [articles](#) on MNRAS

LEADERSHIP

Stanford Department of Computer Science | CS 107E Student Section Leader (Honorary)

Dec. 2021 – Apr. 2022

- **Selected as Honorary Section Leader** from 40 students based on **exceptional performance in system design**
- Led office hours focusing on C-library and graphics modules, emphasizing **pair programming** and strategic thinking skills

SKILLS

Python, C/C++, SQL, MATLAB, Wolfram Mathematica, High Performance Computing, Recommendation Systems, UNIX, Linux