Contact

LucasFang2@outlook.com

www.linkedin.com/in/qingyang-f-0220563a3 (LinkedIn)

github.com/lucialuka (Blog)

Top Skills

MLOps

Software Systems Engineering

Computer Hardware

Languages

English (Native or Bilingual)

Chinese (Native or Bilingual)

Honors-Awards

Berkeley Math Tournament National Individual First Place

American Math Competition & AIME

Other Math Olympiads

International Mathematical Modeling Challenge Finalist

Stanford Math Tournament Global 3rd Place

Publications

Convergence Theory of Knowledge Distillation in Asynchronous P2P Gossip Learning Network

Predictive Memory Localization: Forecasting Selective Intervention Paths from Internal Signals

Data Leakages in Lattice Based Cryptography System from Discrete Gaussian Distribution

Lucas Fang

California, United States

Summary

I am a aspiring machine learning engineer and MLOps developer.View my recent articles at: https://scholar.google.com/citations?user=5snMbcMAAAAJ&hl=enMy GitHub: https://

github.com/lucialuka

Experience

Github Personal Projects

2 years 3 months

Personal Project Quantitative Strategist

September 2024 - Present (2 years 3 months)

New York, United States

Developed and programed a quant strategies optimizer, including 7 popular Quantitative Trading Strategies (such as SMA, EMA, and Mean Reversion). Used stock data of s&p500 from Jan.-Dec. 2025 to backtest and get an average annual ROI of ~27%. With all the stocks trading get Sharpe Ratio of ~2.5. Using Python framework to build a demo to display the real time trading and the position taken by the strategy used.

Launched those algorithms to GitHub. https://github.com/lucialuka/Simple-Trading-Strategies.git

Personal Project Quantitative Developer

September 2024 - January 2026 (1 year 5 months)

New York, United States

Developed and launched a Automatic High Frequency Trading Demo using python, stochastic process and stat. Get an average daily Sharpe Ratio of 2.21.

University of California, Santa Cruz

Machine Learning Intern

June 2026 - August 2026 (3 months)

Santa Cruz, California, United States

1. Research in how Machine Approaches can be implemented to Peer to Peer Decentralized Learning network. Statistically analyse the convergence behaviour of the gossip learning p2p soft clustered network to a O(1/T) rate.

2. Create and integration network simulations into existing decentralized learning simulations while propose, execute, and collect data from experiments using both existing and newly developed protocols. Reduce noise through independent and identical data engineering to a ~5% neighbourhood from the proposed convergence rate until full convergence with a fixed noise floor.

3. Preprint on arXiv.

Education

Hangzhou Foreign Languages School

High School Diploma, Computational and Applied Mathematics · (September 2024 - June 2027)