Yicheng(Ethan) Yang

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EDUCATION

University of Illinois at Urbana-Champaign — **Expected Graduation: May 2027**

Bachelor of Science in Computer Science & Economics

- **Cumulative GPA:** 4.0/4.0
- **Core Courses:** Linear Algebra, Multivariable Calculus, Probability Theory, Time Series, Machine Learning, Data Structures, Python Programming, Game Theory, Economics of Risk, Microeconomic Theory, Macroeconomic Theory
- **Awards:** Dean's List (2023&2024); the Provincial First Prize of Mathematics Competition 2024

QUANTITATIVE RESEARCH EXPERIENCE

Fupan Quant — *Suzhou, China*

Quantitative Research Intern — *Apr 2025 - Aug 2025*

- **Statistical Arbitrage Strategy Development:** Developed a statistical arbitrage strategy through modeling the co-integration and substitutability of soybean meal and rapeseed meal futures; built a mean-reversion model to trade the spread by Python.
- **Risk & Performance Optimization:** Optimized the Statistical Arbitrage Model to maximize the Sortino Ratio while constraining maximum drawdown to under 15%; contributed to a portfolio of strategies that ranked in the top 0.3% in the National Futures Trading Competition.
- **Dynamic Tail-Risk Hedging Strategy:** Supported the design and backtest of a dynamic tail-risk hedging strategy combining options and futures overlays; applied feature engineering (lagged volume patterns and price percentiles) to generate trading signals, achieving out-of-sample performance with Sharpe ratio of 1.2, a hit rate of 65%, and reduced maximum drawdown by 5% during the past 4 years.

Hua Xin Capital — *Shenzhen, China*

Quantitative Research Intern — *Jan 2025 - Mar 2025*

- **Feature Engineering & Predictive Modeling:** Engineered time-series features (price impact factors, risk-adjusted spreads, flow persistence) and trained a Random Forest on these features, reducing out-of-sample RMSE by 13% and achieving 56% minute-level directional accuracy.
- **Volume Curve Construction & Trade Execution:** Engineered a minute-level volume distribution model by capturing intraday liquidity cycles, sector/capitalization-driven flow patterns, and auction dynamics at market open/close; produced a Target Volume Curve that reduced execution slippage from 7.5bps to 3.2bps.

ADDITIONAL EXPERIENCE

Huatai Securities — *Nanjing, China*

Equity Research Intern — *Jun 2024 - Aug 2024*

- **Industry Analysis:** Collected and cleaned large-scale datasets on the new energy vehicle sector; evaluated growth trends and industry barriers across batteries, motors, electronic controls, vehicle intelligence, and autonomous driving to support investment research.
- **Market Analysis:** Produced international market forecasts and competitor benchmarks for a 60+ page research report on a leading new energy vehicle manufacturer; supported a BUY recommendation for the report with 80%+ projected upside, outperforming the sector (+35%) and market (+20%).
- **Desk Research:** Contributed to weekly updates of the new energy vehicle industry report and independently prepared 10+ sets of meeting minutes.

PROJECT EXPERIENCE

Undergraduate Research: ESG-Driven Stock Value Prediction Model — *Nov 2023 - Mar 2024*

Team Leader

- Led the design and implementation of a Random Forest model to predict the intrinsic value of stocks using Environmental, Social, and Governance (ESG) factors.
- Engineered features from a large-scale panel data of 500+ companies over 10 years; cleaned missing values through mean/median imputation, applied normalization and scaling, and created indicators such as momentum signals and composite ESG scores using Python Pandas and Scikit-learn.
- Validated model efficacy through rigorous walk-forward backtesting on out-of-sample data, achieving a 15% lift in predictive accuracy over a baseline logistic regression model.

Debate Club — *Oct 2023 - Now*

Vice President

- Led and organized weekly debate sessions, training over 50 active members in critical thinking, logical structuring, and persuasive public speaking.
- Spearheaded the preparation and strategy formulation for multiple intercollegiate debate competitions, leading the team to secure 2nd place in the Debate Invitational.

SKILLS & INTERESTS

Certificates: CFA Level II Candidate, IELTS 7.0
Tools: Python(NumPy, Pandas, Scikit-learn, LightGBM, Matplotlib), Java, C++, R, SPSS, Wind
Campus Involvement: Quant @ Illinois, Financial Engineering Club, Illinois Risk Lab, Debate Club