Zhengyun (Michael) Xu

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EDUCATION

The University of Chicago — **Chicago, IL**
Master of Science in Financial Mathematics — **Expected December 2025**
- Courses: Portfolio Theory & Risk Management, Python, Option Pricing, Probability & Stochastic Processes

Fudan University — **Shanghai, China**
Master of Finance (GPA: 3.75/4.0) — **June 2024**
- Courses: Machine Learning and Quantitative Finance, Big Data and Data Mining, Theory and Practice of Financial Derivative, Quantitative Investment Theory and Practice, Commodity Investing
- Awards: School of Economics Postgraduate Scholarship, Outstanding Graduate Award

Xiamen University — **Xiamen, China**
Bachelor of Management (GPA: 3.83/4.0) — **June 2022**
- Courses: Python Programming, Econometrics, Analysis of Financial Data
- Awards: "Yu Xuying" Scholarship, "Deng Ziji" Scholarship, Outstanding Student Leader

SKILLS

Computing: Python, C++, Stata, SPSS, MS Office
Knowledge: Financial Derivatives, Financial Markets, Machine Learning, Statistical Modeling, Data Analytics
Trading Products: Futures, Commodities, Fixed Income, Equities, Options, Swaps
Languages: Mandarin (fluent), Cantonese (basic)

EXPERIENCE

Guotai Junan Securities Asset Management Co., Ltd — **Shanghai, China**
Quant Intern — **March 2024 - June 2024**
- Explored pricing and risk hedging of option products by combining parametric models and machine learning
- Built option volatility trading strategies; strategies performed well under 1/5/20 days and were robust to slippage, with both 5- and 20-days strategy average annualized return exceeding 90% at a slippage of 0.03
- Visualized tracking error and rollover risk of products, generated VIX indices, back-tested strategies of research reports; select results were embedded into company's system to help fund managers optimize investment decisions
- Collaborated in establishment of project team's Github repository, and assisted in completion of daily reports

Chongpu Investment Management Co., Ltd — **Shanghai, China**
Quant Research Assistant — **July 2023 - September 2023**
- Developed trend trading strategies from scratch in Python, based on Bollinger Bands and Turtle Trading
- Optimized band parameters and confirmed trends in opening position through oscillators, ATR, momentum, volume, market noise
- Analyzed distribution graph of maximum return and maximum drawdown underlying asset could achieve within a short-term trend, and added Take Profit and Stop Loss points to closing positions
- Achieved expected strategy goals, including an average annualized return exceeding 10%, maximum drawdown limited to 15%, Sharpe ratio of around 1, a win rate between 40% and 50%, and an average of 6-10 trades per year

SWS Research Co., Ltd — **Shanghai, China**
Industry Research Intern — **January 2022 - April 2022**
- Analyzed financial statuses, market spaces and development potential via data gathered from Bloomberg
- Wrote an in-depth industry report on IPO prospects of a specific company in high-tech electronics industry

RESEARCH

Fudan University — **Shanghai, China**
BOCOM Leasing Aircraft & Ship Innovation Risk Model Project — **September 2022 - June 2023**
- Processed data of macro and corporate risk factors in aviation and shipping industries in Python
- Assigned objective weights to factors located in different tiers through PCA, EWM, CRITIC, etc.
- Scored multilevel factors and clustered into tier 1 risk indicator to achieve better traceability of risk

EXTRACURRICULAR

Leadership: Class Monitor, Orchestra Member, Student Union Member, Supporting Education Group Member
Activities: Volunteer at China International Fair for Investment & Trade 2019, Teaching assistant for Statistics