Raymond Xia

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Education

University of California, Berkeley — **Expected Graduation: May 2025**

B.A. in Applied Mathematics, B.A. in Computer Science, Minor in Philosophy — **GPA:** 3.94/4.00

- **Relevant Coursework:** Quantitative Finance, Convex Optimization, Data Structure, Computer Architectures, Linear Modeling, Probability Theory, Stochastic Processes, Concepts of Statistics, Linear Algebra and Differential Equations
- **Awards:** JPMorgan Chase Markets (Sales & Trading) Virtual Experience Program, 2023 Berkeley Trading Invitational (6th Place), Akuna Capital Options 201 & 101 certificates, American Mathematics Competitions (Distinguished Honor Roll)

Work Experience

China Securities — **Hong Kong**

Quantitative Trading Intern — *Jun 2024 – July 2024*

- Designed A/H mean reversion and momentum trading strategies for stocks 3968.HK, 2899.HK, and 2318.HK
- Optimized Bollinger Bands strategy by fine-tuning moving average periods and standard deviation intervals, resulting in a 8% return and 1.5 sharpe ratio
- Performed comprehensive risk analysis, evaluating liquidity, downside risk comparison, and depreciation impacts

WorldQuant — **US**

Alpha Research Consultant — *May 2024 – Present*

- Developed alphas for US and China equity using fundamental ratios, news sentiments, and technical indicators; achieved 2+ Sharpe ratios through back-testing and optimization
- Transformed academia research into a direct cash flow alpha signal, with segregated cash flows into operating, financing, tax, and nonrecurring activities, weighted by enterprise value

Huatai Securities co., ltd. — **Shanghai, CN**

Quantitative Trading Intern — *May 2023 – Aug 2023*

- Proposed options straddle trading strategy to profit from market volatility
- Engineered code to differentiate systematic and idiosyncratic returns in a portfolio and computed the optimal hedging ratio
- Customized key factors in the Piotroski F-Score equity model for A-share markets, achieving an 13% annualized return

Haas School Of Business, UC Berkeley — **Berkeley, CA**

Credit Researcher — *Sep 2022 – May 2023*

- Applied NLP technique to analyze correlation between positive credit sentiments and tighter CDS spread
- Designed beta-neutral bond trading strategies with 4% higher return than benchmark portfolio

Carnegie Mellon University — **Pittsburgh, PA**

AI Research Intern — *May 2022 – Sept 2022*

- Developed propensity scoring estimator to reduce selection bias in recommender system using pandas, numpy, and sklearn
- Introduced time-varying sequential method to improve prediction accuracy while constraining complexity to linear time
- Trained Neural Collaborative Filtering model with movie lens 100k data and optimized embedding size

Leadership & Extracurricular Experience

Capital Investments at Berkeley — **Berkeley, CA**

Quant Project Manager — *Aug 2023 – Present*

- Managed Multi-Strategy Hedge Fund across US Equity, Global Macro, and Quant with $30,000 AUM
- Lead software industry research with focus on DevOps space; pitched a long JFrog (NASDAQ: FROG) trade with detailed growth projection and comparator analysis; generated 20% return
- Pioneered a tactical long position in gold at $2180 in anticipation of rate cuts, rising geopolitical risk, and Asian central bank dynamics

Projects

Sports Betting

- Automated arbitrage betting strategies for odds conversion and generating arbitrage signals
- Designed a correlation betting strategy by exploiting market gaps between fixed-odds and parlay-only platforms
- Achieved 12% ROI over 200 bets placed on FIFA, EPL, and Series A matches

Skills, Activities & Interests

Technical: Microsoft, Python, R, Java, C++, SQL, Capital IQ, Pitchbook, Numpy, PyTorch, Pandas, Scikit-learn

Languages: English (native), Chinese (native)

Interests: Soccer (Pro Youth Team), Book Review (https://raymond-xrh.github.io/), DJ, Debate, Songwriting, Tennis