

Fred H. Li

fredhli@outlook.com | linkedin.com/in/fredhli | fredhli.github.io | +1 (770) 710-7006

EDUCATION

Washington University in St. Louis (WashU) <i>M.S. in Finance, Quantitative</i> ▪ GPA: 3.95/4.00, Rank 2/89 ▪ Honors: All-semester Dean's List, Beta Gamma Sigma Award, Charles F. Knight Scholar (Expected) ▪ Coursework: Continuous-Time Finance (Ph.D. Level), Stochastic Calculus, Exotic & Fixed Income Derivative Pricing, Asset Pricing, Python and R Machine Learning, LASSO, SQL, Quantitative Risk Management, Corporate Finance I & II	St. Louis, MO, USA Sep 2023 – Dec 2024 (Expected)
The University of Hong Kong (HKU) <i>B.S. in Economics and Finance</i> ▪ GPA: 3.41/4.00, Rank top 35%, Awarded 2:1 Distinction and HKU Reaching Out Award (C.V. Starr Scholarship) ▪ Admitted based on achieving a top 0.4% province-ranking (143 rd / 400,000) in National College Entrance Exam (Gaokao)	Hong Kong Sep 2017 – May 2021
Institut d'Études Politiques de Paris (Sciences Po) <i>Scholarship-Awarded Exchange Student</i>	Paris, France Jan 2020 – May 2020

PROFESSIONAL EXPERIENCE

Washington University in St. Louis, Olin Business School <i>Research Assistant (Post Grant)</i> Overview: Data scientist to process a novel U.S. congressional hearing database and develop data solutions to enhance usability ▪ Conducted time-series analysis to identify a direct link between UK government-vs-media fiscal sentiment shocks and asset price changes, addressing omitted variable bias (OVb) by isolating sentiment effects from broader economic conditions ▪ Developed a Selenium web scraper to extract data from social media and news databases, improved sentiment classification through BERT and sub-model fine-tuning, transforming it into a key resource for quantitative research	St. Louis, MO, USA May 2024 – Present
Privium Fund Management <i>Portfolio Manager</i> Overview: Co-managed US\$ 200M AUM options selling strategy, overseeing algorithmic trading and risk management ▪ Executed options selling strategy on index options, minimizing slippage and maximizing premiums with algorithmic trading ▪ Integrated transaction costs, stop-loss mechanisms, and market impact analysis to ensure accurate performance metrics ▪ Applied risk models (Barra, Black-Litterman, Axioma, Greeks) for portfolio optimization and ensuring risk alignment ▪ Managed liquidity and order book dynamics, performed portfolio stress testing to ensure portfolio robustness	Hong Kong Apr 2022 – Dec 2022
Yong Rong Asset <i>Junior Trader</i> Overview: Research-focused buy-side trader at a fundamental high-conviction macro sub-fund with US\$ 30m AUM ▪ Participated in trading activities, maintained the firm's trading and reporting scripts to support execution ▪ Produced comprehensive research memos for U.S. space exploration, remote sensing, and Hong Kong machinery sectors	Hong Kong Jun 2021 – Jan 2022
Peak Global Investments <i>Private Equity Intern</i> Overview: Research, due diligence-focused intern while contributing to the firm's crypto and DeFi proprietary trading strategies ▪ Researched cryptocurrency exchanges across Asia and Europe, liaised with senior executives to prepare for acquisitions ▪ Collaborated with world's largest crypto exchange, utilized API to assess targets' trading volumes and their authenticity	Hong Kong Sep 2020 – May 2021

RESEARCH & PROJECT EXPERIENCE

Microstructure-Informed High-Frequency Trading Strategy <i>Trading Strategy Design</i> ▪ Currently developing a proprietary high-frequency trading (HFT) strategy leveraging market microstructure analysis to predict immediate price movements and execute rapid trades in the U.S. equities market ▪ Predicted short-term price movements, optimized code for low-latency execution, back-tested using high-frequency dataset	St. Louis, MO, USA Oct 2024 – Present
Research on PEVC-backed Companies <i>Research Assistant under Prof. Minmo Gahng (Cornell University)</i> ▪ Developed scalable TF-IDF-based fuzzy matching solution for large datasets, utilizing custom cosine similarity with sparse matrices, variable-based blocking, and automated best-match selection to ensure high accuracy and performance	Ithaca, NY, USA (Remote) Mar 2024 – Oct 2024
Hull-White Model Calibration for At-the-Money Caplets and Caps <i>GitHub Repository: github.com/fredhli/Hull-White-Caplet-Calibration</i> ▪ Implemented theoretical and simulation-based pricing functions, optimizing model parameters against market data, and producing a 15-page executive report with detailed analysis of model fit and limitations in fixed income derivatives	St. Louis, MO, USA Mar 2024 – May 2024

ADDITIONAL QUALIFICATIONS

Teaching	TA for: <i>Options, Futures and Derivative Securities (Undergraduate); Behavioral Finance (Graduate)</i>
Volunteering	NGO Marketing Director, Soap Cycling HKU; Volunteer Teacher, Beyond the Pivot HKU
Certificates	CFA Level I, HKSFC Type-9 Asset Management License
Programming	Proficient in Python, R, SQL, Git, Microsoft VBA, LaTeX; Intermediate in Stata, MATLAB
Work Permits	Hong Kong SAR (Permanent Citizenship), Canada (OWP with Citizenship Assurance), USA (OPT)