XIXIANG HU

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EDUCATION

Expected 12/23	 NEW YORK UNIVERSITY The Courant Institute of Mathematical Sciences M.S. in Mathematics in Finance <i>Coursework:</i> stochastic calculus, XVA, fixed income derivatives, trading ene capital and credit derivatives, time series analysis, derivatives pricing, interesting and credit derivatives. 	New York, NY rgy derivatives, t rate model
09/21 - 09/22	 LONDON SCHOOL OF ECONOMICS AND POLITICAL SCIENCE (LSE) M.S. in Data Science <i>Coursework:</i> time series, SVM, random forest, XGBoost, lasso, ridge regress Carlo, principal component analysis, Q-learning, PySpark, distributed computed compu	London, UK sion, Monte ting
09/17 - 06/21	 SOUTHWEST UNIVERSITY OF FINANCE AND ECONOMICS B.S. in Computer Science <i>Coursework:</i> corporate finance, financial derivatives, Java, database, statistic structures, probability, algorithms, machine learning, linear algebra, Hadoop 	Chengdu, China cs, data
EXPERIENCE		
06/23 - 08/23	 ANZHI CAPITAL Shanghai, China Quantitative Research Intern (Python) Aggregated convertible bond strategies data with Python, calculating value and proportion for each bond, stock, and future; analyzed fund allocations across various industries Wrote fully functional backtesting program for new strategies, obtaining statistical indicators for certain periods and generating net value chart Studied HFT papers; used continuous Markov chain model, jointly modeling market order 	
07/21 - 09/21	 CAITONG SECURITIES Chengdu, China nternship (Python) Evaluated performance of diverse strategies across time; assessed economic and market conditions under which each strategy exhibited strong results Constructed forecasting model based on GARCH for returns; visualized portfolio data 	
PROJECTS		
09/23 - present	 NYU COURANT New York, NY Automatic Hedging Strategy for 1-month and 3-month Term-SOFR Reset-Risk (Python) Replicated the published Term-SOFR. Analyze tick-by-tick data to replicate Term-SOFR and use linear optimization to forecast optimal overnight SOFR rates Designed algorithm to autonomously hedge against Term-SOFR reset risk. Utilizing TWAP principles, adjusting weights dynamically across different time frames by historical trading volume; final hedging error should within +/- 0.15bps of CME's daily Term-SOFR rates 	
12/21 - 08/22	LSE & SIEMENS ADVANTA CONSULTING	London, UK

- Inventory Optimization (Python)
 - Applied ARIMA and ARIMAX time series models and machine learning methods (Prophet, LSTM) to simulate and predict product order demand over forthcoming 3 months
 - Constructed environment for inventory management process; used reinforcement learning methods, DQN and Dueling DQN, to establish optimal reorder points strategy

COMPUTATIONAL SKILLS / OTHER

Programming Languages: Python, Java, R, C, SQL *Languages:* English (fluent), Mandarin (native) *Honor & Certifications:* 1st in LSE and IBM "Practitioner Challenge Competition," Passed FRM Exam, Part I