SHUO QI

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EDUCATION

Expected 12/23	NEW YORK UNIVERSITY The Courant Institute of Mathematical Sciences M.S. in Mathematics in Finance	New York, NY		
	 <i>Expected Coursework:</i> fixed income derivatives, sell-side modeling: XVA, credit derivatives 			
09/18 - 07/22	 BEIJING UNIVERSITY OF TECHNOLOGY B.S. in Information and Computing Science and B.Mgmt. in Accounting <i>Coursework:</i> linear algebra, regression analysis, data structures, probability theo <i>Honors:</i> top 5% in university 	Beijing, China ry		
EXPERIENCE				
06/23 - 08/23	 CITIBANK Quantitative Analyst Intern, Risk Management Department (Python, SQL) Developed DRM models and scorecards for credit ratings of several companies a Spearheaded research initiatives using Markov Chain Models to forecast and ana probabilities for upcoming periods, enhancing accuracy of risk assessments Applied researched default probabilities to price Credit Default Swaps (CDS), su with up-to-date and precise CDS prices 	New York, NY and loans lyze default pporting traders		
12/21 - 06/22	 SAS SOFTWARE BEIJING BRAND CO., LTD. Quantitative Analyst Intern, Investment and Advisory Department (Python) Developed trading strategies focused on commodity stocks and options after anal average of N-period closing prices of adequate stocks with team leader and mem Backtested trading strategies on historical datasets, achieving noteworthy enhance performance as evidenced by Sharpe ratio's rise from 0.97 to 1.34 Participated Alpha Research to analyze portfolio's excess return, successfully ide incorporating novel variables that significantly influenced excess return outcome 	Beijing, China lyzing moving bers rements in ontifying and s		
01/21 - 02/21	 FOUNDER SECURITIES CO., LTD. Quantitative Analyst Intern, Trading and Derivatives Business Department (Pyth Addressed tailored investment requests from clients, offering curated selections of with their unique investment objectives Strategized and executed hedging solutions, integrating options into client portfor against potential market uncertainties Employed Monte Carlo simulation methodology for precise pricing of simple options 	Beijing, China on) of stocks to align lios to safeguard tions for traders		
PROJECTS				
02/23 - 05/23	 NYU COURANT Two-step Pair Trading Strategy For WTI-RBOB Futures (Python) Calculated z score with rolling mean and standard deviation of WTI-RBOB spreaders Regressed RBOB daily P&L on WTI daily P&L to get coefficient as hedging rate according to trading signals (short or long) Added 2 small thresholds around z score, enabling strategy to do opposite pair transge, which increased Sharpe ratio from 0.71 to 1.04 	New York, NY ad for <i>n</i> days io; then hedged ading in this new		
02/23 - 05/23	 Numerical Valuation of European and American Options (Python) Divided model into 2 parts, since European option price v satisfied PIDE equations spatial derivatives and the other part an integral under Kou's Jump-Diffusion model 	n) fied PIDE equation; one part was Imp-Diffusion model		

• Performed finite difference discretization for spatial derivatives and recursion formulas for approximating integrals; then did several iterations to compute option price *v*

COMPUTATIONAL SKILLS / OTHER

Programming Languages: Python (Numpy, Pandas, Scikit-learn), SQL, Excel (VBA), Java, R, MATLAB, C *Languages:* English (fluent), Mandarin (native)