HUA (HANA) JING

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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
	 Coursework: OOP (Java, Python), regressions & time series, portfo Monte Carlo, stochastic calculus, short rate and fx models, scientific derivatives, MBS, XVA, alternative data 	lio theory, Black-Scholes, c computing, energy
08/18 - 05/22	UNIVERSITY OF COLORADO, DENVER	Beijing, China/Denver, CO
	 B.S. in Mathematics, B.A. in Economics, Minor in Data Sciences <i>Coursework:</i> ML, regression, probability, real analysis, ODE, linear <i>Honors/Awards:</i> Magna Cum Laude, Dean's List (7 semesters) <i>Joint Program with China Agricultural University</i> 	r algebra, econometrics
EXPERIENCE		
05/30 - Present	NUMERIX	New York, NY
	Financial Engineer Intern (Python, Excel)	
	 Calibrated models with market data and wrote payoff scripts to price cliquets, corridors, swaps, swaptions) with proprietary software inte Validated software's calibration, pricing, Greeks, and IRR models w Identified potential issues; wrote thorough reports and suggestions f team, enabling them to improve accuracy Applied academic and white papers' methods: log contract replication Brownian Bridge for barrier options, American Monte Carlo for optical sectors. 	e trades (e.g., barrier options, rfaces in Excel and Python vith market conventions or software development on for variance swaps, ions
11/21 - 01/22	HUATAI SECURITIES (Python, R)	Remote, China
	Quantitative Research Intern	
	 Conducted time series analysis; projected crude oil prices for next q (e.g., US Dollar Index, inflation expectation, crude oil production) Used Monte Carlo to implement GBM stochastic pricing model, and snowball exotic options after identifying their payoff structures 	uarter by aggregating data
PROJECTS		
03/23 – Present	BERYL CONSULTING Alternative Data Research with NLP and Machine Learning (Python,	New York, NY , AWS, Power BI)
	 Implemented spiders with Scrapy and acquired text data from public preprocessing, and vectorizing pipeline; used LDA to find most pop Modeled clients' alternative data (e.g., job posts, ESG) and market c hypothesis test and trading signal generation, and created data storyt 	ular VC topics data; experimented with telling report with Power BI
04/25 - 05/17	INYU COURANT Integration of CAPM and Risk-Neutral Pricing of Commodity (Pytho	new York, NY
0 11 20 00/11	 Replicated numerical method from "Commodity and Asset Pricing I paper (Schwartz); implemented integration of CAPM and risk-neutr Optimized pricing model with Kalman Filter, with market data and set the set of the set	Models: An Integration" al method to set restrictions survey data from other papers
04/25 - 05/13	 Model FX Volatility Using Market Strangle (Python) Used risk reversal and market strangle quotes; calibrated SABR with Reconstructed vol surface, built reconstructed for time clock for 	h SciPy optimizations
02/23 - 03/20	Trading WTI Futures (Python, Excel)	
	 Implemented factor model residuals momentum rolling strategies or factors yearly using Lasso regression from 17 macro and oil-specific Hedged using Carry; optimized reaction function; single future Shar 	n WTI Futures; selected c factors pe ratio: 1.05, MDD: 17.8%

COMPUTATIONAL SKILLS / OTHER

Technical Skills: Python, Java, R, SQL, Excel, AWS, Power BI, LaTeX, Bloomberg Terminal, GIS, Stata *Languages:* English (fluent), Mandarin (native)

Other: Undergraduate Development Economics Research Assistant; Volunteer Leader, Veterans Hospital in Beijing