

YUQIAN (TRUDY) LI

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EDUCATION

Expected 12/24	NEW YORK UNIVERSITY Courant Institute of Mathematical Sciences M.S. in Mathematics in Finance	New York, NY
09/19 - 06/23	NANKAI UNIVERSITY B.S. in Mathematics and Applied Mathematics, Concentration: Mathematical Finance	Tianjin, China

EXPERIENCE

06/24 - 08/24	SINOLINK SECURITIES (Asset management firm with \$17B AUM) Quantitative Developer Intern (Python, SQL)	Shanghai, China
03/23 - 05/23	CINDA SECURITIES (Asset management firm with \$10B AUM) Quantitative Analyst Intern (Python, MATLAB)	Beijing, China
01/22 - 03/22	Investment Management Intern (Python, VBA)	
	<ul style="list-style-type: none">Researched ~250 bonds and REITs and wrote reports on them; co-developed system to calculate trading performance; completed multiple data processing, analysis, and visualization work	

PROJECTS

09/21 - 05/24	Projects in Quantitative Finance (Python)	New York, NY
	<ul style="list-style-type: none"><u>FX Volatility Curve Construction</u>: Used SABR model to construct vol curves, given ATM vol, 25d RR, 25d Mkt Strangle quotes; calculated everyday vols considering weekend effect<u>Down-and-out Barrier Call Pricing</u>: Used Monte Carlo simulation, Finite Difference, and PDE analytical method to price down-and-out call; reached same result; compared accuracy and speed<u>Snowball Structured Product Pricing</u>: Used binomial model with 3,000 layers to price snowball VWO issued by Barclays Bank; co-authored and published paper; improved algorithm with GARCH vol and Monte Carlo simulation; analyzed return scenarios, sensitivity, and Greeks<u>Option Hedging with Historical Data</u>: Hedged Apple's 6M options considering dividends; back-tested P&L; rolled by 1 day for 2 years and repeated; researched break-even volatility and skew<u>Trinomial Model Construction</u>: Hedged trinomial model by minimizing quadratic risk; compared its P&L with binomial models under equal initial endowment and equal delta conditions<u>Data Analysis of Indices, Currency Pairs & Interest Rates</u>: Computed time series and distribution of correlation and volatility; compared VIX and vol indicators modeled in EWMA and GARCH	

COMPUTATIONAL SKILLS / OTHER

Programming Languages & Software: Python, SQL, C++, MATLAB, VBA, SPSS, Stata, EViews, LaTeX, MS Office
Certificates & Awards: [CFA Level II](#) candidate, [NCRE Level II](#), [MCM Finalist](#) (top 2% globally)