YUQIAN (TRUDY) LI

(347) 821-0668 // yuqian.li@nyu.edu // linkedin.com/in/liyuqian/

EDUCATION

Expected 12/24	NEW YORK UNIVERSITY	New York, NY
	The Courant Institute of Mathematical Sciences	
	M.S. in Mathematics in Finance	toohostio
	• Expected Coursework: OOP (Python), machine learning, data-driven modering, s processes, risk & portfolio management, financial securities & markets, asset prici	ing
09/19 - 06/23	NANKAI UNIVERSITY	Tianjin, China
	 B.S. in Mathematics and Applied Mathematics, Concentration: Mathematical Fina <i>Coursework:</i> mathematical analysis, advanced algebra, probability, statistics, data algorithms (C++), machine learning (Python), financial engineering, actuarial, inv <i>Honors/Awards:</i> Graduate with Honors (top 3%), 5 fellowships in 3 years (top 5%) 	structure & estments
EXPERIENCE		
03/23 - 05/23,	CINDA SECURITIES	Beijing, China
01/22 - 03/22	(Asset management firm with \$10B AUM)	
	Investment Management Intern (Python, MATLAB)	tad thair
	• Investigated trends of 080+ convertible bonds in China from 2017 to 2022, weighted then implied volatility (IV) to monitor market IV: updated it daily for department's decision-making	
	 Partnered with managers to design timing strategies based on volatility risk premium by drawing 	
	and updating IV surface of SSE 50 ETF options	, ,
	 Researched and wrote reports on 240+ bonds and REITs in China, supplying components to inform their trading decisions. 	orehensive
	analysis to senior management to morm then trading decisions	
PROJECTS		
	NANKAI UNIVERSITY	
02/23 - 05/23	 Thesis: Study on the Pricing of Snowball Structured Products (Python) Priced real snowball autocallable using GARCH model and Monte Carlo simulation Conducted sensitivity and Greeks analysis: proposed 5 key findings on snowball results. 	Tianjin, China on products
05/21 04/22	Quantitative Proposal for China's 1st Digital Service Taxation (Python SPSS)	Tianiin China
05/21 04/22	 Processed 150+ sets of panel data; developed numerical models incorporating neg externalities; recommended tax rates for both digital advertising and entire industr Tested results with 2 static games of incomplete information between tax authoriti enterprises; validated low probability of tax evasion under suggested tax rates Presented paper to Tianjin Tax Research Institute; ranked #1 in Economics School received 1st place award for Outstanding Innovative Research Projects - top 3% 	ative y es and of Nankai;
02/22 - 02/22	Mathematical Contest in Modeling - MCM (MATLAB)	Online
	 Served as team leader, main modeler, main author, and programmer, to offer optim hydropower allocation for 2 reservoirs on Colorado River serving 4 industries across Collected and processed data in 10+ fields; devised allocation models with linear pand differential equations; offered solutions considering 3 different initial scenario Analyzed sensitivity and robustness to predict follow-ups; won Finalist Award - to 	hal water and bass 5 states brogramming bs bp 2% globally
	CALIFORNIA INSTITUTE OF TECHNOLOGY	
09/21 - 12/21	 Models for Derivative Pricing and their Calibration (Python) Analyzed traits, evolution, and markets, highlighting pros and cons of various stru Used binomial model with 3K layers to price Snowball VWO issued by Barclays I Co-authored and published paper: <u>A Binomial Pricing Method for Snowball Autor</u> 	Online ctured products Bank <u>callable</u>
COMPUTATIO	DNAL SKILLS / OTHER	

Programming Languages & Software: Python, C++, MATLAB, SQL, VBA, SPSS, Stata, EViews, LaTex, MSOffice *Certificates:* Machine Learning (Coursera), Python for Everybody (Coursera), <u>NCRE</u> Level 2, CFA Level 1 Candidate *Languages:* English (fluent), Mandarin (native)