Zihan (Chris) Guo

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guozihan@umich.edu University of Michigan, 500 S State St, Ann . EDUCATION	Arbor, MI 48109
University of Michigan, Ann Arbor	Ann Arbor, M
Master of Science in Quantitative Finance and Risk Management	Aug. 2021 – Dec. 2022
Core Courses: Numerical Methods with Financial Applications, Stochastic Processes, Sto	chastic Analysis for Finance
Financial Mathematics I & II, Statistical Learning I: Regression, Statistical Models and M	ethods for Financial Data
University of Liverpool	Liverpool, UI
Bachelor of Science in Mathematics with Finance	Sept. 2019 – June 202
Overall GPA : 4.0/4.0 Rank : Top 1%	
Xi'an Jiaotong-Liverpool University	Suzhou, Chin
Bachelor of Science in Financial Mathematics	Sept. 2017 – Aug. 201
Overall GPA : 4.0/4.0	
Coursework: Calculus, Linear Algebra, Multivariable Calculus, Statistical Inference, A	Applied Probability, Measur
Theory and Probability, Applied Stochastic Models, Numerical Analysis for Financial Ma	
INTERNSHIP	
Guotai Junan Securities	Shanghai, China
Pricing Quant Intern, OTC Derivatives Department	June 2021 – Aug. 202
• Priced exotic options (strong path-dependent American options, hybrid barrier options methods and analytical approximation	with rebate) using numerica
• Constructed trading and dynamic hedging system; provided technical support on exotic	c option trading desk
• Designed customized derivative products with exotic payoff structure and worked on s	
Guolian Securities	Beijing, Chin
Quantitative Investment Intern, Equity Derivative Department	Oct. 2020 – Dec. 202
• Developed programs updating daily trading volume and unit net value automatically	
• Worked out investment ratios based on extracted data; introduced time series analysis t	o evaluate fund performanc
• Visualized data using Seaborn and completed product reports displayed on official road	*
 Assisted in developing pure alpha and index enhancement trading strategies 	
Baohe Capital	Shanghai, Chin
Investment Manager Assistant	July 2020 – Sept. 202
 Collected investee companies' information; illustrated the company profile, ownership 	
 Investigated the investee companies' industrial layout, current industry state and future 	
 Analyzed the industrial chains, the companies' profitability and pricing power 	prospect
 Performed preliminary valuation on the investee company and prepared fundraising rep 	port
RESEARCH	polt
Are Cryptocurrencies Priced in the Cross-section? A Portfolio Approach	Liverpool, Ul
Co-Author with Professor Adelphe Ekponon at University of Liverpool	May 2021 – Preser
 Modified previous econometrics methods (Fama-Beth approach) on cross-section regre 	2
(from portfolio exposure to single factor to multifactor)	ssion by re-solving portione
 Conducted research on explanations for higher significance of volatility (second momentation) 	(the second s
 Proposed intuitive justification for the positive correlation between momentum factor a Investigated the significant correlation between any rate market and commodity market 	and beta distribution
• Investigated the significant correlation between crypto market and commodity market	Secolaria Clina
Advanced Python for Financial Engineering	Suzhou, Chin
Research Assistant to Professor Kenneth Gleason at Columbia University	July 2020 – Aug. 202
• Explored advanced pandas function and performed data analysis on multiple data sets	
• Employed OLS Regression and time series analysis to model the American stock mark	
• Applied advanced time series hypothesis tests to implement and calibrate a simple trad	
Constructed efficient portfolios, using Mean-Variance framework to optimize portfolio	
PUBLICATION	
Title: Volatility Spillover Effect of U.S. Economic Policy Uncertainty on China's Finan	
Description: Used DCC-GARCH model to compare and analyzed the volatility Spillover	Effect of AEPU on differen
Chinese financial submarkets from the macro level	
Dublishow The 2021 Intermetional Academic Conference on Machine Learning Die D	Nata and Chatistica Einsuei

Publisher: The 2021 International Academic Conference on Machine Learning, Big Data and Statistics, Financial Information Technology (ICMBSF 2021)

ADDITIONAL INFORMATION

Programming Skills: Python, R, MATLAB, Excel VBA, MAPLE, Wind database Certifications: Securities Qualification Certificate, CFA I