CHAO ZHU

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EDUCATION	
BARUCH COLLEGE, CITY UNIVERSITY OF NEW YORK Master of Science in Financial Engineering expected December, 2016 PEKING UNIVERSITY	09/15 -Present 09/11
Bachelor of Science; Bachelor of Arts Double Major in Applied Mathematics and Economics	- 07/15
FINANCIAL MODELING SKILLS	
 Linear and logistic regression analysis, time series analysis: ARMA, GARCH, EWMA, ECM models Machine learning techniques, Decision Tree, K-means, Neural Network, and Support Vector Machine Dynamic affine yield term structure modeling using Kalman Filter QML Stochastic calculus: Ito's formula, Kolmogorov equations, change of numeraire, Feynman-Kac Theorem PROGRAMMING AND COMPUTING SKILLS C/C++, MATLAB, R 	
 Python, SAS, VBA, SQL, SPSS, Unix Shell, MS Office, Q, spark 	
FINANCIAL EXPERIENCE MKP CAPITAL MANAGEMENT, LLC., New York, US Credit Analytics • Built a portfolio optimization app based on Bayesian Network for stress scenario and utility function	06/16 –Present
selection, considering transaction cost and finance cost	
MKP CAPITAL MANAGEMENT, LLC., New York, US	01/16
Quantitative Analyst, Risk Analysis and Portfolio Management Department	-06/16
 Risk analysis based on historical transaction data, e.g. calculation of P&L, sharp ratio, hit rate and max drawdown 	
 Maintained weekly risk surveillance report for credit fund and opportunity fund, e.g. scenario maximum drawdown, trading strategy risk exposure 	
 Used Bayesian Network model to analyze the risk exposure of Brexit and its impact to global market Back tested a trading strategy using VIX index and S&P500 index based on implied volatility 	
CHINA CREDIT RATING CO., LTD, Beijing, China	03/15
Quantitative Analyst, Quantitative Research Department	-06/15
 Researched reduced form and structure models to assess the risk of asset securitization Estimated the affine yield term structure for the Chinese national debt market by Kalman Filter QML 	00/14
RAISE TECH Co., LTD, Beijing, China Quantitative Analyst, Model Development Department	08/14 $-10/14$
 Investigated indices methodologies, built trading strategies by trend-following indices CSI300, CNINDEX and back tested with historical data 	-10/14
BANK OF CHINA, Shanghai, China	06/14
 Quantitative Summer Analyst, Personal Wealth Management Used decision tree algorithms to model client turnover 	-08/14
AWARDS	
 Academic Excellence Award, 2012 Grand Prize, 21st Challenge Cup, Peking University, 2013 	
CERTIFICATION	
 Bloomberg certified in Equities, Foreign Exchange, Fixed Income and Commodities 	08/15
PROJECT EXPERIENCE BARUCH COLLEGE, CITY UNIVERSITY OF NEW YORK, New York, US	01/16
Course Projects • Algorithm trading project: Alpha factor stratagy based on style rotation and smart bate to entimize signal way	-05/16
 Algorithm trading project: Alpha factor strategy based on style rotation and smart beta to optimize signal we Machine Learning project: Using genetic algorithm to signal (feature) construction in high frequency trading, compared with different supervised learning models 	
 Big Data project: used C++ to built a real-time data scrubber and analyzer on HPC cluster; wrote VWAP mo with Q; used pyspark to build a stock return prediction model based on social media information on Amazon 	

LANGUAGE

Mandarin (native speaker)