Yinhao Kong

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Skills

Programming: Java, MATLAB, C++, LaTeX, Python, R,
Mathematics: Calculus, Algebra, Differential Equations

Education

Boston University, Questrom School of Business — Boston, MA
M.S. Mathematical Finance & Financial Technology — Expected January 2022

East China Normal University — Shanghai, China
B.S. in Mathematics and Applied Mathematics (GPA: 3.3) — June 2020

- Relevant Coursework: Higher Algebra and Analytic Geometry, Mathematical Analysis, Partial & Ordinary Differential Equations, Probability and Statistics, Complex Analysis, Differential Geometry, C++ Programming
- Honors and Awards: Second Class Academic Excellence Scholarship (Top 7% in class, September 2017); Third prize in Mathematics Modelling Competition (February 2018)

University of California, Berkeley — Berkeley, CA
Exchange Student — Summer and Fall 2018

- Coursework: Data Structure, Introduction to Partial Differential Equation, Introduction to Probability and Statistics, Corporate Finance and Financial Statement Analysis, Business English

Experience

Northeast Securities — Shanghai, China
Intern, Research Department — July 2019 - August 2019

- Conducted principal component analysis (PCA) with five indicators including CEFD, TURN, NIPO&RIPO, Pd and Alpha from large sets of data from 2010-2019; utilized best value to find coefficient to define market sentiment
- Evaluated market sentiment by exporting data from Wind terminal with MATLAB, grouped options and stocks according to market sentiment index and percentage gain & loss on stock sectors, chose data to forecast stock market trend
- Analyzed quarterly open and close of Hushan 300; collected and processed data according to EPS and profit indicators

Summer Scientific Research Camp of Chinese Academy of Science (CAS) — Beijing, China
Researcher — July 2017 - September 2017

- Analyzed stock of Shanghai SIPG Football Club in terms of capital structure, repaying ability, and operation ability; predicted its profitability; reanalyzed SIPG's capital structure using DuPont analysis
- Researched on relationship between media coverage and capital market pricing, and relationship between media attention and market synchrony, then calculated stock yield after media attention with CAPM and Fama–French three-factor models

Additional Information

Languages: Mandarin (native); English (proficient)
Interests: Violin (played violin in high school's band), basketball (played in University Basketball Club)
Leadership Activity: Worked as recruiter for Math Club at East China Normal University; organized promotional campaigns to motivate students to attend workshops and invited professors to deliver lectures on different math topics