Beiming Zhu

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EDUCATION

Cornell University, College of Engineering, Ithaca, NY **Expected December 2022**
Master of Engineering in Financial Engineering, GPA: N/A

Tsinghua University, Beijing, China **June 2021**
Bachelor of Economics in Economics and Finance, **GPA: 3.65**
Bachelor of Laws in Sociology (2nd major), **GPA: 3.73**

Catholic University of Louvain, Leuven, Belgium **Sept. 2019 to Jan. 2020**
Exchange Program

Selected Coursework: Derivative Securities (ranked A), Monte Carlo Simulation (ranked A+), Econometrics (ranked A), Fundamentals of Machine Learning, Python for Finance, Operation Research Tools for Financial Engineering, Applied Stochastic Process, Applied Time Series Analysis, Data Structure and Algorithm Analysis

SKILLS

Technical: Python, R, C, SQL, STATA, C++; Certificate: CFA I; Languages: Japanese (Fluent)

EXPERIENCE

Trading Assistant, *Shanghai Jinde Asset Management Ltd.,* Beijing, China **June to Sep. 2020**

- Programmed Python scripts with portfolio management team for trading data processing and database update, to process data from 5 different brokers. Improved process efficiency by 60%.
- Placed stock, futures, ETF buy/sell order and stock short sale order (both premarket and real-time exposure monitoring) with average transaction amount about 1.3 million China Yuan.

Research Assistant, *CASIC FUND,* Beijing, China **July to Aug. 2019**

- Analyzed fundamentals and performance of 10+ target companies regarding video security and information security using R. Analysis used in subsequent investment analysis processes.
- Implemented the liquidation with liquidation group in post-investment management, including checking 50+ bank statements and tax documentation during liquidation process of target company.

Research Assistant, *CHINA SECURITIES,* Beijing, China **Mar. to May 2019**

- Analyzed operating information from global top 10 target companies' annual reports using Porter's Five Forces model and DuPont Analysis for in-depth research.
- Reported the financial performance of target company by calculating, graphing, and analyzing key financial indices.

PROJECTS

Stock Price Prediction Research Based On Hidden Markov Model **Mar. to June 2021**
Tsinghua University (Diploma Project)

- Brought forward new HMM stock price prediction method using Python based on existing researches, improving prediction accuracy by 20% as well as reducing calculation burden from thousands of data to dozens.

Application of AI and Big Data in Quantitative Transactions (team of 3), *Stanford University (Remote)* **Apr. to May 2020**

- Designed multifactor model in stock picking (hs300 as stock pool), using Python and WindQuant as data platform.
- Solved image compression problem with K-means and Cocktail Party Problem with ICA.

LEADERSHIP EXPERIENCE

Director of Outreach, *Cyrus Tang Love and Care Society,* Beijing, China **June 2018 to June 2019**

- Organized discussion group on volunteering activities among Tang's nonprofit organizations at three universities, with attendance of 40+ participants and 5 new activity proposals brought forward.
- Held non-profit online reading activity with high school students in Tianli Education Group, totaling 1000+ attendees.

ACTIVITIES/INTERESTS

Translation; Society of Sociology (Online voluntary sociology theory sharing group); hiking; photography; piano