Ziyue Rachel Zhang

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EDUCATION

Princeton University **Princeton, NJ**
Master in Finance Candidate, Bendheim Center for Finance Aug 2020 – Jun 2022 (Expected)
- **Coursework:** Asset Pricing, Statistical Analysis of Financial Data, Computational Finance in C++, Financial Risk Management

The Hong Kong University of Science and Technology **Hong Kong**
BSc in Quantitative Finance, Computer Science (Second Major), Mathematics (Third Major) Sep 2016 – Jun 2020
- **CGA:** 4.148 / 4.3 (top 1%)
- **Honors:** Academic Achievement Medal (top 1%); HKSAR Government Scholarship and sever others; Beta Gamma Sigma
- **Coursework:** Micro & Macroeconomics, Time Series Econometrics, Financial Markets Trading and Structure, Object-Oriented Programming and Data Structures, Stochastic Calculus, Differential Equations

Wharton School, University of Pennsylvania **Philadelphia, PA**
International Student Exchange Program Aug 2018 – Dec 2018
- **CGA:** 4.0 / 4.0
- **Coursework:** Fixed Income Securities, Financial Derivatives, Data Analytics and Statistical Computing, Psychology

WORK EXPERIENCE

Hanrong Investment **Shenzhen, China**
Quantitative Research Intern June 2020 – Aug 2020
- Researched and formulated CTA trading strategies based on high frequency data, conducted back-testing with parameter sensitivity analysis and performance evaluation, proposed three CTA strategies with Sharpe Ratio over 2
- Improved an existing strategy by refining its signal with two more filters, enhanced its Sharpe Ratio and MAR Ratio
- Constructed and maintained dollar bar, volume bar and imbalance bar data of 30 commodity futures based on their tick market data

Coordinates Capital Management Limited **Hong Kong**
Part-time Quantitative Analyst Intern Aug 2019 – Jan 2020
- Conducted PCA analysis on US treasuries and US swaps over 34 months using R; studied risk hedging strategies across different tenors using the first component
- Constructed an automatic monthly delta risk attribution system for bonds, futures, swaps and options in 13 currencies to facilitate risk control for trades on basis spreads
- Analyzed statistical initial margin calculation models, performed attribution analysis for the fund's initial margin across different brokers, currencies and products; identified fallacious charges which saved approximately 10% of the fund's initial margin
- Built automatic visualization tools for treasury bonds to visualize and analyze rolling of bond futures

China Renaissance Securities (Hong Kong) Limited **Hong Kong**
Investment Banking Division Summer Analyst Jun 2019 – Jul 2019
- Engaged in preparation of management presentations by identifying and highlighting the core competitive moats and investment value for an IPO transaction and three US$ 100 million private placements
- Provided suggestions for target companies' equity stories and valuation by analyzing successful comparable firms
- Participated in writing and organizing answers to address questions from investors by analyzing internal data pack and attending management team interviews in a US$ 450 million private placement and a US$ 300 million convertible bond offering
- Constructed financial models for a dominating tea retailer through analyzing its operating data, breaking down revenues and expenses by identifying key drivers and projecting future growth

MCM Partners **Hong Kong**
Quantitative Strategist Part-time Intern Apr 2019 – May 2019
- Researched academic papers and implemented relevant models with modifications in python, developed liquidity and momentum combined long-short strategies; back-tested the strategies using stocks in S&P 500 for fifteen years on four different look back windows with monthly rebalanced positions

RESEARCH EXPERIENCE

Wharton School, University of Pennsylvania Sep 2018 – May 2019
Research Assistant for Competition, Profitability, and Risk Premia; Endogenous Competition and Financial Distress
- Independently studied 15+ academic papers on 8 distress measuring models; quantified companies' financial distress scores in R
- Cleaned fuzzy corporate bond data over 41 years using R; consolidated 2 databases of different corporation characteristics

EXTRA-CURRICULAR ACTIVITIES

Wharton Investment & Trading Group, *Member* Sep 2018 – Dec 2018
Crossroads Foundation, *Volunteer* Spring 2017
Film Society, HKUST SU, *Subcommittee Member* Sep 2016 – Dec 2016

SKILLS & INTERESTS

Technical Skills: Python, R, C++, VBA, Bloomberg, Capital IQ, Thomson ONE, Wind
Language: Mandarin (Native)
Interests: Folk Dance, Jogging, Piano (Level 10 certificated by Chinese Musicians' Association, highest)