PENGCHENG ZHOU

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EDUCATION

Expected 12/24 NEW YORK UNIVERSITY

The Courant Institute of Mathematical Sciences M.S. in Mathematics in Finance

Coursework: object-oriented programming, data structures and algorithms, Black-Scholes, machine learning, data science, stochastic calculus

09/19 - 06/23 ZHEJIANG UNIVERSITY

B.Econ., Concentration in Finance

- *Coursework:* calculus, linear algebra, probability & statistics, ODE and PDE, stochastic process, real analysis, computational methods, linear regression, time series models, data analysis (Python), corporate finance, asset pricing
- Honors/Awards: Outstanding Graduate of Zhejiang University

EXPERIENCE

ZHEJIANG ZHEQI INDUSTRIAL CO. 09/21 - 10/21(A leading Chinese market maker)

- Financial Engineer Intern (Python, MySQL)
 - · Read and summarized industry articles and reports about quantitative finance
 - Collected options transaction data and used cubic spline interpolation to fit options prices ٠
 - Estimated implied volatility through Newton-Raphson and bisection methods using GitHub to • support team projects

PROJECTS

11/21 - 06/23 ZHEJIANG UNIVERSITY In Search of Latent Factors in Commodity Markets (Python, MATLAB) Conducted main empirical research as co-author of paper; presented it at 2 international academic conferences Cleaned data of 32 US commodities, constructed continuous price series, returns, and . characteristics, and applied risk-premium PCA (RP-PCA) as primary method Evaluated 4 models' in- and out-of-sample performance, and conducted statistical tests to • compare models' performance Used factor selection procedure proposed by Harvey and Liu (2021), factor spanning tests, and • Fama-MacBeth regressions to confirm new factors' pricing power Improved static strategy by combining RP-PCA with factor timing strategies; result: reached SR of 0.62, information ratio of 0.74, and expected utility of 0.41 in out-of-sample case 12/20 - 01/21 **ZHEJIANG UNIVERSITY** Sentiment Analysis of Twitter Text (Python) Applied Naive Bayes Classifier to analyze probability of positive emotions in Twitter text Visualized sentiment analysis results in geographic heat maps with Tableau ZHEJIANG UNIVERSITY 05/20 - 06/20 Hangzhou, China Visualization of COVID-19 Situation (Python) Acquired and cleaned pandemic data of 100+ countries, with pandas ٠ Visualized each country's cumulative cases and deaths in dynamic scatterplot with Plotly; shared project on cloud (PythonAnywhere)

COMPUTATIONAL SKILLS / OTHER

Programming Languages: Python (NumPy, pandas), MATLAB, SQL Languages: English (fluent), Mandarin (native)

Affiliations/Certifications: Passed Financial Risk Manager Exam, Part I (July 2021)

New York, NY

Hangzhou, China

Hangzhou, China

Hangzhou, China

Hangzhou, China