ZEHAO YANG

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EDUCATION

Expected 12/24	NEW YORK UNIVERSITY The Courant Institute of Mathematical Sciences M.S. in Mathematics in Finance • <i>Expected Coursework:</i> penalized regression, decision tree, Fama-French mod	New York, NY lels, Feynman-Kac
09/18 - 09/22	formula, Black-Scholes, Hull-White models, Ornstein-Uhlenbeck, Monte Car WASEDA UNIVERSITY	lo method Tokyo, Japan
	 B.A. in Economics <i>Coursework:</i> linear algebra, calculus, real analysis, entrepreneurial finance, statistical analysis <i>Honors:</i> Monbukagakusho Honors Scholarship for privately financed international students 	
08/21 - 05/22	PURDUE UNIVERSITY	West Lafayette, IN
	 <i>Coursework:</i> OOP (Java), ODE & PDE, Markov chain, probability, time series models <i>Honors:</i> Dean's List and Semester Honors both semesters 	
EXPERIENCE		
02/23 - 03/23	SHENZHEN CAPITAL GROUP CO. LTD. (2nd largest venture capital company in China, with \$65B AUM) Data Scientist Intern (Python, SOL)	Shenzhen, China
	 Developed machine learning model using logistic regression with PCA to forecast corporate financial fraud in publicly listed Chinese companies Applied lasso regression for industry-specific feature optimization in predictive modeling, identifying key factors influencing corporate financial fraud Adjusted penalty coefficient C, based on industry characteristics; employed F1-score to assess model's performance; achieved 0.92 	
11/22 - 01/23	 BOSERA ASSET MANAGEMENT CO. LTD. (3rd largest asset management company in China, with more than \$200B AUM) Quantitative Research Intern (Python, R, MATLAB) Developed average true range (ATR) trading strategies for Chinese stock inder ineffectiveness of ATR strategy Backtested ATR strategy across various asset classes, achieving annual return 37.44% for 50 types of commodity futures (e.g., steel, soybean, and gasoline) Identified limitations of ATR strategy by confirming low annual returns, of 9. when applied to specific stock index futures (e.g., CSI300) 	Shenzhen, China x futures; proved s of 28.12% to 01% to 11.08%,
PROJECT		
09/23 - 12/23	 NEW YORK UNIVERSITY Hedge Fund Performance Forecasting Analysis Applied penalized regression to hedge fund returns on Fama-French Factor 5 Implemented elastic net regularization to enhance OLS performance; calcularization Dynamic Options Hedging Strategy Based on BlackScholes Model Created dynamic options hedging strategy based on Black-Scholes with S&P 	New York, NY 5 model ated its MSEs 500 data

• Analyzed hedging errors for options portfolios to optimize hedging strategies; developed statistical visualizations, including histograms, to depict hedging error distribution

COMPUTATIONAL SKILLS / OTHER

Programming Languages: C++ (STL, boost), Java, Python (pandas, numpy, matplotlib, scikit-learn, PyTorch), R, SQL Languages: English (fluent), Japanese (fluent), Mandarin (native), Cantonese (conversational) QuantNet Certifications: C++ Programming for Financial Engineering; An Intuition-Based Options Primer for Financial Engineering (with Distinction) Activities: Math Finance Recitation Leader at NYU Courant