RUIZE CHEN

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EDUCATION

Expected 12/23	NEW YORK UNIVERSITY The Courant Institute of Mathematical Sciences	New York, NY	
	 M.S. in Mathematics in Finance <i>Expected Coursework:</i> object-oriented programming (Java), stochastic of Fama-French, Black-Scholes, risk and portfolio management, data-driver 		
08/18 - 05/22	 UNIVERSITY OF ROCHESTER B.A. in Mathematics and Statistics & B.S in Finance <i>Coursework:</i> linear algebra, ordinary differential equations, real analysis probability theory, linear regression, mean-variance optimization, corport <i>Honors/Awards:</i> Dean's List (3 years), Cum Laude, Beta Gamma Signation 	rate finance	
EXPERIENCE			
06/21 - 08/21 (Top 25 Chinese	NORTHEAST SECURITIES securities firm) Quantitative Research Intern	Shenzhen, China	
	 Identified factors, from firm's database, that better predicted stock return information coefficients (i.e., correlation between factor value and stock Constructed new stock selection factors using principal component and of Applied Python to carry out web crawler for acquiring Chinese real estate area, floor area ratio) to support research on future housing trends; stored Preprocessed acquired data with log transformation and performed explore graphed time series plots to examine housing construction patterns over 	yield) cluster analyses te data (e.g., construction d data using MongoDB oratory data analysis and	
01/21 - 02/21	INDUSTRIAL SECURITIES	Guangzhou, China	
(Top 7 Chinese s	 Quantitative Research Intern Employed quantitative stock selection methodology to healthcare stocks Reproduced factor construction process with random forest model to ext built linear model based on selected factors Achieved annualized returns of 28% and Sharpe ratio of 1.5 from derive 	ract most influential ones;	
PROJECTS			
04/22 - 05/22	 UNIVERSITY OF ROCHESTER Study on Factors Affecting Likelihood of Having Heart Disease (Python) Built logistic regression, random forest, and artificial neural network via scikit-learn packages to explore possible impact of factors such as blood Evaluated performance of each model and achieved recall of 97% 		
04/21 - 05/21	 Optimal Risk and Return Portfolio Construction (Excel) Collected 60 years' monthly returns of 3 types of Fama-French risky ass variances, covariances, and correlations to derive mean-variance efficier Created CAPM linear regression model in Excel; evaluated excess return 	60 years' monthly returns of 3 types of Fama-French risky assets; measured their covariances, and correlations to derive mean-variance efficient portfolios APM linear regression model in Excel; evaluated excess return rate and influential	
03/21 - 04/21	 degree brought by the 3 Fama-French assets Analysis of Rochester Housing Market (R) Performed linear regression, stepwise regression, ANOVA test, and Tukey's HSD test to examine how factors (e.g., architectural style, location) could affect Rochester home sales prices; utilized ggplot2 package to create statistical plots 		

 Derived best fit linear model with metrics including AIC and R-squared; constructed confidence and prediction intervals

COMPUTATIONAL SKILLS / OTHER

Programming Languages: Java, Python, R, VBA, Excel, Tableau, MongoDB Languages: English (fluent), Mandarin (native), Cantonese (native), German (intermediate)