

Wyatt Nechtman

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EDUCATION

Georgia Institute of Technology

- M.S. Quantitative and Computational Finance - GPA: 3.61
- M.S. Biomedical Engineering - GPA: 3.70

Atlanta, GA

Expected Dec 2022

May 2021

University of Georgia

- B.S. Biochemistry and Molecular Biology, Minor in Biology - GPA: 3.71 Cum Laude

Athens, GA

Aug 2020

WORK EXPERIENCE

Georgia Tech Foundation

Investments Intern

Atlanta, GA

Aug 2022 – Present

- Developed framework for modeling active portfolio risk for different allocation tilts using object-orientated programming.
- Used framework to decompose factor risk and generate portfolio re-balancing insights.
- Created a risk analytics dashboard for the equity book using Dash to visualize factor correlations and other risk indicators.

Wells Fargo

Quantitative Intern Program – Decision Science & Artificial Intelligence

Charlotte, NC

June 2022 – Aug 2022

- Explored and enhanced the Explainable Boosting Machine/GAMI Tree Model.
- Manipulated interaction terms, enforced monotonicity, and further tuned parameters to comply with regulations and agree with human logic while maintaining model performance.
- Extended the model enhancements from regression to classification tasks.

RESEARCH EXPERIENCE

Financial Services Innovation Lab, Georgia Institute of Technology

Summer Research Student

Atlanta, GA

May 2021 – Aug 2021

- **Natural Language Processing in Financial Markets:** Leveraged background knowledge in life sciences and biotechnology to research market moving events in the biotech sector. Parsed and analyzed 10-K filings to correlate language with events.

PROJECTS

- **Sentiment Based Trading Strategy:** Screened small cap stocks based on high upside implied volatility, used a Twitter bot to grab tweets related to stocks and held top 10 based on sentiment analysis in our portfolio.
- **Forecasting the Shape of the Yield Curve:** Filled US Treasury data across maturities using Nelson-Siegel model, reduced data with PCA, then using clustering algorithms, classified the shapes of the yield curves and compared to economic conditions.
- **Social Media's Influence on "Meme" Stocks:** Created linear regression, ARMA/ARIMA/SARIMA, and LSTM Neural Network models to forecast effects of social media hits on individual stock returns.
- **Momentum Trading Strategy:** Developed a momentum portfolio long the top 10% and short the bottom 10% of S&P based on prior 12 month's returns, and calculated performance using future returns of holding this portfolio over multiple time horizons.
- **Dynamic Delta Hedging:** Implemented a dynamic delta hedging strategy in C++ by simulating stock price paths, using Black-Scholes model to price options on each path, calculating profit and loss with and without hedge, and calculate implied volatility given stock and options market data.
- **Return Predictability in Treasury Markets:** Replicated Pflueger and Viciera's 2013 research paper by using real rates, liquidity, and inflation to predict returns in Treasury securities and extended data to include aggregate bond index data.

SKILLS & RELEVANT COURSEWORK

Programming: Python, R, C++, MatLab, SAS, Julia, L^AT_EX, General Zsh/CLI, Bloomberg

Other Relevant Coursework: Financial Optimization, Design & Implementation of Systems in Computational Finance, Stochastic Processes in Finance, Derivative Securities, Financial Management, Tech Firm Valuation, Numerical Methods

AWARDS & INTERESTS

Awards: Eagle Scout, UGA CURO & Chemistry Stipends, UGA BUS Symposium Best Presentation, Phi Eta Sigma

Publications: *KLHL5 Knockdown Increases Cellular Sensitivity to Anticancer Drugs*: 10.18632/oncotarget.26462

Interests: UGA Football, Golf, Hunting & Fishing, Atlanta Intramural Sports Leagues: Kickball, Softball, Cornhole