Yuxin Yin
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EDUCATION

Sept.2021-May 2023   **Emory University**   Atlanta, GA
- BS in **Applied Mathematics** in **Statistics** (transfer student)   GPA: **3.873/4.0**

Sept.2019-May 2021   **Mount Holyoke College**   South Hadley, MA
- Freshman & Sophomore Coursework for **Mathematical Statistics** major   GPA: **3.9/4.0**
- Awarded the "**Mildred L Sanderson Prize in Math**"

INTERNSHIPS

Jul.2022-Present   **Guotai Junan Securities Co., Ltd.**   Wuhan, China
- Pulled stock data from different websites using APIs with Python for further analysis;
- Utilized Python to visualize data in different charts or graphs according to analysis purposes for analysis, such as MSCIA China A Index trend of the first class industry and amount of increase of five most profitable industries since January 2021, and present a dozen of written analytical reports;
- Analyzed the weekly performance of Shenwan first class industry and summarized the reasons for the price rise of the top five industries; collected and visualized the historical data of PE Ratio (TTM) of various indexes
- Analyzed the historical data of the top 5 funds in different fund categories (equity fund, commingled funds, balanced mutual funds, etc.), including their fund size, return, Sharpe ratio, volatility, fund manager, etc.; visualized and compared the data and wrote reports accordingly.

Jan.2020-Apr.2020   **FiberHome Telecommunication Technologies Co., Ltd.**   Wuhan, China
Data Analyst Intern
- Set up the CoLab Jupyter Notebook Development Environment, installed pip and other third-party libraries like *matplotlib, jieba, wordcloud,* etc., and generated word clouds from text documents;
- Implemented K-means clustering algorithm using Python to visualize Uniqlo store sites and determine the segments of Uniqlo's customers;
- Utilized Python to predict the consumption of Xiaohongshu (akin to Instagram) users with linear regression and predict customer segments that were more likely to use coupons offered by Tmall (akin to Amazon) with logistic regression;
- Analyzed advertising and marketing effects based on K-means, forecasted the number of bike rentals at any hour of the year based on random forest; and performed Weibo (akin to Twitter) sentiment analysis;
- Built a model to analyze and predict the churn of telecommunication subscribers and proposed suggestions for enhancing customer loyalty and reducing churn.

RESEARCH EXPERIENCES

May 2021-Aug.2021   **Project-based research training program advised by Prof. David Shimko from NYU**
Topic: Quantitative Valuation in Financial Capital Markets
- Performed data preprocessing, data wrangling, and analysis of stock price and financial data using Python and R Studio;
- Built an Integrated 3-Statement Model for analysis and evaluation, calculating the business status indicators and actual market value of the company's products;
- Studied core evaluation models, and used Data Table in Excel to value bonds, fixed income products, corporate securities, forward contracts (including futures), and options;
- Analyzed the market valuation of Zoom and Peloton during the outbreak of Covid-19 using the Black Scholes method and Monte-Carlo method

SELECTED COURSE PROJECTS

Jan.2022-May 2022   **Employment Analysis of Married Women in the United States in R**
- Perform logistic regression analysis and multiple logistic regression analysis in R to model possible workplace discrimination and potentially negative factors for married women;
- Identified seven major categories of factors that may negatively impact married women returning to the workplace, presented the results in multiple formats, and completed a paper.

Jan.2022-May 2022   **Identification of the airline worse hit by Covid-19 based on punctuality and flight statistics**
- Collected data with the APIs in R, examined the reports on airlines affected by the pandemic, and wrangled the data from multiple sources to make them easier for analytics;
- Built a multiple regression model using R Studio based on such statistics as on-time performance, number of flights, and created a dynamic dashboard for presenting the results using Shiny.

EXTRACURRICULAR ACTIVITIES

Sept.2017-Present   **"Adopt, Instead of Buy!" Initiative**
- Coordinate with the Wuhan Stray Animal Association in an effort to facilitate the adoption of stray animals;
- Designed a web page for the organization and maintained a social media official account.

Sept.2019-Dec.2019   **Mount Holyoke Senate**
- Helped students solve living space problems
- Report student issues and concerns to Senate in weekly meetings.

Sept.2018-Dec.2019   **Gorse Children's Center**
- Monitored classes for young kids aged 3-6
- Helped arrange cultural lessons on traditional Chinese holidays

PUBLICATION

- Y. Yin, Z. Zhang. Asian Options in a Market with High Volatility: Perspective and Evidence from Zoom and Peloton. 2022 International Conference on Finance, Investment and Business Analysis (FIBA 2022) Kuala Lumpur, Malaysia, accepted.

SKILLS

- Python, R, Java, Tableau