

JINGYI HE

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EDUCATION

Columbia University | New York, New York

Sept. 2021 - Expected Dec. 2022

*Master of Science (Major in **Operations Research** with Data Analytics Concentration)*

- Courses: Optimization, Stochastic Model, Machine Learning, Data Analytics, Business Analytics, Intro to Financial Engineering

West Virginia University | Morgantown, West Virginia

Aug. 2019- Jun. 2020

*B.S. in Business Administration with Summa Cum Laude (Major in **Finance**)*

GPA: 3.90/4.0

- Honors: President's List (Spring 2020), Dean's List (Fall 2019)

Tianjin University of Finance and Economics | Tianjin, China

Sept. 2016 – Jun. 2020

*B. Econ (Major in **Finance** with Energy Finance Emphasis)*

GPA: 3.72/4.0

- Honors: University-level Scholarships (2017, 2018), Outstanding Award for Cultural and Sports Activities (2019)

WORK EXPERIENCE

Bond Analyst Intern, Debt Issuance Department, Haitong Securities, Shanghai, China

Jun. 2021- Sept. 2021

- Performed financial research on 25 listed companies in the environmental industry; structured web scraping and API in python to track industry trends and market dynamics, then use Tableau to visualize data in annual reports, financial statements, etc
- Researched and designed Carbon Neutrality Bonds and REITs when led a team of 3 interns to assist managers to accomplish two pitch books using PowerPoint about bond financing projects for 2 Shanghai state-owned companies
- Retrieve current ESG ratings from Bloomberg by python, generated sorted portfolios, plotted their performance, integrated decision tree and random forest to predict trend of ESG rating and presented the findings by reports

Equity Capital Markets Intern, Stock Issuance Department, Bohai Securities, Shenzhen, China

Feb. 2021 – May 2021

- Researched electronic engineering industry research and produce an 80 pages report for presentation to the board of directors including products, and financial parts, made company performance forecast
- Tested companies' internal control by using PivotTable and V-look function; modeled and presented valuation scenarios based on DCF, LBOs and comparable companies

Relationship Analyst Intern, HR Administration Department, Chinalin Securities, Shenzhen, China

July 2019- Aug. 2019

- Built an automatic paystub generator using Excel, which helped the department save 0.5 full-time equivalent
- Analyzed data by R from salary of the staffs in different branches questionnaires and uploaded the data into the UFIDA ERP software in an organized and structured manner
- Assisted the manager in maintaining a database by SQL and python; built tables and data extraction from a database with 100,000+ data, improved the efficiency of paperwork management
- Wrote a web scraping function to get a list of nearby restaurants for manager via python and google API

Industry Analyst Intern, Strategy & Product Team, Bank of China International, Beijing, China

July 2017- Sept. 2017

- Drafted Sino-US Fund Comparative Research Report; analyzed Bloomberg secondary fund market data using R, performing time series and comparative analyses to evaluate fund performance in terms of risk-adjusted returns and performance against index
- Initiated more than 10 daily market analyses, including stock market quotes, fund performance and news; classified funds into different groups and built a database via WIND and Excel API to monitor daily fund performance, improved efficiency by 40%

PROJECT EXPERIENCE

College Quality Analysis Project, Columbia University

Jan. 2022- Feb. 2022

- The analysis is to predict the quality of college with related factors by using different regression models in R
- Data Processing: Finished data cleaning; conducted data visualization through analytic hierarchy process in identifying crucial features; Trimmed down the original data set and integrated new features to avoid overfitting
- Machine Learning Models: Using cross-validation on the training set, compared forward stepwise selection, lasso and ridge regression, and selected the model with minimum MSE; models generally yielded strong predictability

SKILLS

- MySQL (Query), Python (NumPy, Pandas, Data Cleaning), R (Statistics), Tableau (Visualization), Machine Learning
- Financial Modeling Skills (CAPM, B-S Model, Binomial Tree, etc), Excel (Pivot table and V-Look Function), MATLAB