Yuxuan Chen

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EDUCATION

Zhejiang University of Technology   Sep. 2020 - Jun. 2024
BS in Mathematics and Applied Mathematics

- **Relevant Courses**: Mathematical Analysis, Advanced Algebra, Analytical Geometry, Ordinary Differential Equations, Probability Theory, Operations Research, Optimization Methods, Time Series Analysis, Complex Variables and Integral Transform, Numerical Computation, Data Analysis with R, Mathematical Modeling, Financial Mathematics.

Columbia University   Jul. 2023 – Aug. 2023
Value Investment Techniques: Advanced Application and Exploration Research of Valuation Models in CFA Certification

- Engaged in research on the application and exploration of value investment techniques and related valuation models. Primarily focused on four US stocks: Microsoft (MSFT), Apple (AAPL), Pfizer (PFE), and Merck (MRK). Analyzed and processed data regarding their Earnings Before Interest and Taxes (EBIT) to Total Revenue, annual return rates, and Earnings Per Share (EPS) from 2019 to 2022.
- Utilized Pearson correlation coefficients to discuss the correlations among the data and employed function fitting to generate graphs, exploring the impact of various indicators on valuation and their application within valuation models.

Boston University   Sep. 2024 - Jun. 2025
Bachelor of Arts: Political Science

- **Relevant Courses**: Business Analytics Foundations, Operations Management, Financial Concepts, Quantitative and Qualitative Decision Making, Enterprise Risk Analytics, Marketing Analytics, Web Analytics for Business, Data Mining for Business Analytics, Investment Analysis and Portfolio Management, Quantitative Methods for Finance.

SKILLS

Languages and Tools - *proficient:* Python, R, Bash *intermediate:* Spark, SQL, Tensorflow/Keras, Git, Docker
Selected Coursework - Deep Learning, Bayesian Machine Learning, Big Data Systems with Spark, Linear Models for Data Science, Statistical Learning, Data Engineering, Linear Algebra, Econometrics I & II, Data Visualization, Programming in Python

EXPERIENCE

Dynata   Aug 2022-Present
Data Scientist, Marketing   Herndon, VA

- Delivered 30+ advanced analytical studies (MTA, drivers analysis, diff-in-diff) to high profile clients including 15+ to marketing teams at **Google and Meta**
- Built diff-in-diff and multi-touch attribution model codebase in Python(OOP) for Ad Data Science Team. This codebase has **saved 100+ hours and brought over in $2 million in revenue to date**

Internet Archive   Nov 2022-May 2023
Intern, Data Science   Washington, D.C.

- **Solved entity resolution problem with Gradient Boosted Trees** [here] linking sparse wikipedia references to Internet Archive Database References
- Implemented model in Python [here] which, given a wikipedia reference, will return a match in the Internet Archive Database along with a probability of matching.

Morning Consult   Nov 2021-Aug 2022
Senior Data Analyst   Washington, D.C.

- **Developed and automated wave-over-wave statistical tests on time series data** in 17 tracker surveys of 5 countries
- Led project to build a Python Web Bot (Selenium) to automate generation of test cases in surveys, contributed this to data science code base (used by 60+ data scientists)
- Over 300+ requests, pulled data from API or large database into R, wrangled data using R, and output figures and tables

Echelon Insights
Research Analyst

April 2020-Nov 2021
Alexandria, VA

- Led in modeling projects **predicting election turnout for entire U.S. in 2022**, phone response rates, etc.
- Wrangled, cleaned, weighted, or made presentations for 60+ survey datasets with R, SQL, and AWS
- Using R Shiny, built a codeless-crosstab tool for company's research team

Center for Elections and Democracy
Research Fellow

Dec 2018-April 2020
Provo, UT

- Designed and executed multiple survey experiments in original research projects
- Mentored 60+ students in solving econometrics problems in weekly office hours
- Visualized data using R creating 50+ informative figures for AFS official report [here], news outlets, and professor's projects

SELECTED PROJECTS

Bayesian County-Level School Shooting Analysis

August 2022

- Compared and estimated several Bayesian Regression models with PYMC3 in Python. Ultimately, used **hierarchal negative binomial model** to predict shootings and make inferences about gun laws

Political Message Detection and Likeability in Films

April 2020

- recieved award from Political Science department to fund a panel survey (n=1000).
- estimated linear regression and multinomial logit in observational study context and wrote paper [here] on findings.