

Yiwen Zhao

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EDUCATION

Columbia University

New York, NY

Master of Science, Biostatistics – Public Health and Data Science

Sep 2021-Present

- ♦ **Coursework:** Data Science (R language), Relational Database and SQL Programming, Biostatistical Methods, Statistical Inference, Probability, Principles of Epidemiology

University of California San Diego

San Diego, CA

Bachelor of Science, Business Psychology; Minor, Accounting

Apr 2021

- ♦ **Coursework:** Business Analytics, Project Management, Industrial Organizational Psychology, etc.

TECHNICAL SKILLS

- ♦ **Data Analysis:** R, SQL, Python, GitHub, RapidMiner, Microsoft Access, Advanced Excel, Hypothesis Testing, AB Testing, Relational analysis techniques
- ♦ **Data Visualization:** Tableau, R Shiny, Plotly, ggplot
- ♦ **Web Development:** HTML, CSS

PROFESSIONAL EXPERIENCE

Accenture

Shanghai, China

Business Analyst Intern, IT Consulting

Feb 2021-May 2021

- ♦ Collaborated with senior manager to establish the customer data platform according to the recent updates of **IFRS 17** for China Life Insurance Company Ltd., Ping An Insurance Company of China, Ltd., and China Pacific Insurance Co., Ltd.
- ♦ Designed scenario cases of life insurance and property insurance by **Excel** and created a framework for logics of the data platform
- ♦ Utilized **SQL** to encode **10,000,000+** entries of data to the new customer data platform (10-year customer data) for data-testing team; joined tables to examine null data and cleaned database
- ♦ Collaborated with data-testing team to adjust variables and data entries; followed-up team meetings

Amazon

Remote, China

Data Analytics Research Project, Business Intelligence Team

Jul 2020-Aug 2020

- ♦ Developed a CPT Adjustment Tool by **Tableau**, which allowed the users to input the number of minutes to move trucks' planned ship schedule, and to see the time required by the fulfillment center to finish packing and shipment sort in different time slots
- ♦ Analyzed the sales and profit data of Amazon online shopping; utilized **Tableau Dashboard** to demonstrate the results (country map, bar graph, etc.); discovered potential reasons cause the loss on turnover; simulated the feasible solution and improved the rate of return by 10%

DATA ANALYTICS PROJECTS

Data Science Research Project, Columbia University

Nov 2021-Dec 2021

- ♦ Collected the crime data of Chicago from Chicago Data Portal by R; evaluated the trends in number of crimes in 5 years; discovered a huge decrease of crime amounts in April 2020
- ♦ Utilized **plotly**, **ggplot**, **word-cloud**, **gganimate**, etc. to visualize study results; discovered that the most frequently occurring crime from 2017 to 2021 was narcotics; the crime happened on streets are 2.14 times the crimes happened sidewalks
- ♦ Created webpages for visualization of research results; demonstrated analysis by **R Dashboards**; project webpage: https://yiwenzhao1.github.io/p8105_final_project/index.html

Biostatistical Method Project, Columbia University

Nov 2021-Dec 2021

- ♦ Analyzed data with biostatistical methods such as **collinearity**, **regression model**, **backward elimination**, and **transformation**; developed insight that population, poverty, income are relevant to predict the future crime rate in countries
- ♦ Utilized **corrplot**, **pairwise scatterplot**, **bar plot**, **linear model** with and without the outliers and **Box-Cox** to Visualize the research results

Data Analysis and Machine Learning, Carnegie Mellon University

Jun 2020-Jul 2020

- ♦ Practiced data analysis and machine learning skills with **Rapid Miner Studio**; collected data from multiple webpages by Python for a business case that about choosing the best living place in Pennsylvania
- ♦ Carried on independent research on clustering, text mining, and social network analysis and completed a 10-page report.