Yiying (Emma) Wu

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EDUCATION

Columbia University Mailman School of Public Health   New York, United States
Master of Public Health in Biostatistics   09/2022 - 06/2024 (Expected)
- Relevant Coursework: Applied Regression, Data Science, Analysis of Health Survey Data, Database(MySQL)

Shanghai University of Finance and Economics   Shanghai, China
Bachelor of Science in Statistics   09/2018 - 07/2022
- Relevant Coursework: Real Analysis, Time Series, Survival Analysis, Machine Learning, Stochastic Processes
- Honor: First Prize for The 5th Mathematical Modeling Competition of SUFE (Top 1%, 04/2019)
- Certification: SUFE-Cambridge Leadership Online Programme (07/2020)

INTERNSHIPS

Data Analyst   *Wellness Equity Alliance*   California, United States, 07/2023 - Present
- Assisted in constructing the public health system for Vernon, California, and neighboring regions through demographic data analysis
- Used Google Earth (GIS) to display demographic data, mental health services, and food security resources

AI Analyst   *Microsoft China, Microsoft AI and IoT Insider Lab*   Shanghai, China, 06/2021 - 08/2021
- Tested the Microsoft Azure cloud product "deep-voice-conversion-master" by converting audio text data into target text with a Convolutional Neural Network on a Linux system
- Wrote code in Python to convert the target text into the specified format in batch

Investment Analyst   *Hwabao Securities*   Shanghai, China, 06/2020 - 08/2020
- Examined historical and current market supply and demand of the pharmaceutical industry
- Conducted statistical description/regression analysis to predict the risk of overseas investment and surplus capacity

RESEARCH

Research Assistant   New York, United States, 06/2023 - present
Project: Predicting Methylation from Sequence and Gene Expression Using Deep Learning Methods
- Developed deep learning models that can accurately predict DNA methylation patterns based on genomic sequence and gene expression data
- Utilized Python and Columbia University's research computing resources to test, evaluate, and refine deep learning models, ensuring optimal performance and reliability

Undergraduate Researcher   Shanghai, China, 03/2022 - 05/2022
Project: Research on Cluster Analysis of E-commerce customers based on RFM model
- Drew word clouds about the most frequent words in the product description and brand column using the R package wordcloud2, to have a brief knowledge of the dataset
- Constructed a Recency, Frequency, and Monetary model (RFM) based on the data collected, and analyzed the model using the K-means algorithm
- Analyzed the groups of customer data after segmentation, and predicted their behavior in the future

Undergraduate Researcher   Shanghai, China, 06/2021 - 08/2021
Project: Prospects and Challenges of "Internet+" for Community Healthcare in Shanghai
- Developed a questionnaire based on the Technology Acceptance Model (TAM) to investigate the acceptance of "Internet+" community healthcare by Shanghai residents
- Constructed a Structural Equation Model (SEM) of Shanghai residents' satisfaction with "Internet Community Clinic Services" using the TAM, and Analyzed the model using Partial Least Squares (PLS) written in R

SKILLS

- Software: R, MySQL, Python, SAS, Stata, LaTeX, and MS Office
- Language: English (Fluent), Chinese (Native)