Anyu Zhu

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EDUCATION

Columbia University Mailman School of Public Health   New York, NY
Master of Science in Biostatistics, Theory and Methods Track   *Expected May 2023*

The Chinese University of Hong Kong School of Data Science   Shenzhen, China
Bachelor of Science in Statistics: Statistical Science Stream   *May 2021*
Dean's List. Undergraduate Research Award. Teaching Assistant for Calculus(2018-2019)

University of Minnesota, Twin Cities   Minneapolis, MN
Semester Exchange, College of Science and Engineering   *January 2020 - May 2020*

Stanford University   Palo Alto, CA
Summer Session; Participant of Silicon Valley Innovation Academy   *June 2019 - August 2019*

INDUSTRY EXPERIENCE

WuXi AppTec. Shanghai, China   *June 2021 – September 2021*
Medical Information Analysis Intern, Data Technology Group

○ Cleaned and labeled 1500+ data points for company's internal database of worldwide medtech companies.
○ Compiled abstracts and wrote 2∼3 news articles daily in new drug development based on academic papers.
○ Analyzed large datasets containing R&D and financing updates in the pharmaceutical industry using R.

PatSnap Information Technology Co., Ltd. Suzhou, China   *June 2020 – August 2020*
Biological Data Analysis Intern, Content Department

○ Wrote Python scripts to classify, clean and test the quality of over 8000 biological patent data.
○ Retrieved and restructured data from KEGG, Genebank, and NCBI weekly to update the company's database.
○ Implemented statistical analysis, text mining (Python), and data visualization (Tableau) for biological patent data; researched innovative situations and future trends in the biomedical industry.

China Alliance of Social Value Investment Shenzhen, China   *October 2018 – June 2019*
Research Assistant, Financial Data Department

○ Wrote SQL queries to structure and clean data for the *ESG 2.0* database, which is an assessment database of economic, social, and environmental values for Chinese-listed companies.
○ Composed 7 analysis reports of Chinese energy, IT, healthcare industries' development in company's journals.

RESEARCH PROJECTS

Visualization of COVID-19 Data and Prediction of Future Trend   *January 2020 - May 2020*
Independent Project at University of Minnesota, Institute of Health Informatics

○ Constructed various forms of plots based on global Covid-19 data using R, and Python.
○ Applied a hybrid deep learning model, multi-stacked fully connected bidirectional LSTM model to predict the size of affected populations and deaths in various countries and regions.
○ The model returned a rooted mean square error of 0.845 and an accuracy of 92.6% in predicting fatalities.

Evaluation Models of Credit Default Swap   *February 2019 - June 2019*
Research Assistant, The Chinese University of Hong Kong, Shenzhen

○ Explored factors affecting the pricing relationship between credit default swap and corporate bonds through literature review and case analysis.
○ Integrated newly discovered factors to existing models based on results of factor analysis.
○ Conducted multiple hypothesis tests regarding the established model with data retrieved from Bloomberg.

SKILLS AND ACCOMPLISHMENTS

Computer Skills : Data analysis with MS Excel, Tableau; Programming in Python, R, MySQL, Java, MATLAB

Accomplishments : Honourable Mention: Mathematical Contest In Modeling 2020

Second Prize: China Undergraduate Mathematical Contest in Modeling 2018