YUEQI XU

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EDUCATION

University of Washington   Seattle, WA
Master of Science in Biosatistics   *Expected Mar. 2024*
Cumulative GPA: 4.0/4.0

University of Washington   Seattle, WA
Bachelor of Science in Statistics   *Sep. 2017 – Mar. 2022*
Minor in Informatics & Mathematics
Honors: Dean's List, Graduated Magna Cum Laude

SKILLS & POFESSIONAL EXAMS

Programming Languages: *Advanced*: R, SQL, Python;   *Intermediate*: Java, JavaScript, HTML5, CSS
Data Visualization: ggplot2, Matplotlib, Tableau, d3.js, Excel
Report Writing: LaTex, R Markdown, Word, PowerPoint
Others: Time Management, Planning, Organization, Critical Thinking, Communication
Actuarial Exams: Exam P (10/10), Exam FM (9/10), Exam SRM (9/10), Exam PA (9/10)

PROJECTS & RESEARCH

Predictive model for Perfume Prices   *Jan. 2022 – Mar. 2022*
- Performed **exploratory data analysis (EDA)** and built **predictive models** using **R** to analyze the key factors contributing to the retail prices of perfumes. Used **step-wise backward selection** to choose the best model; assessed model performance using **cross-validation**.
- Built analytical report and presentation slides using **LaTex** and **Google Slides**, clearly explained the data set and strategies used to build the model, and interpreted the final result in detail.

Method Review of the BNT162b2 Vaccine Phase III Trial (PDF)   *May. 2021 – Jul. 2021*
- Analyzed the Bayesian workflow, specifically the prior belief and parameter transformations, proposed in the efficacy trial of BNT162b2, the Pfizer-BioNTech Covid-19 vaccine. Visualized analytical results with **ggplot2**.
- Provided alternative justifiable Bayesian work-flows, highlighted with our favored philosophy of prior selection. Used **grid approximation** to find parameters that satisfy the proposed prior belief.

Database Projects   *Jan. 2020 – Jun. 2020*
- Designed databases for an animal shelter and a hospital using **relational database design**, visualized the internal relationship with an **entity relationship diagram (ERD)**, and implemented the databases using **SQL**.
- Tested the performance of hospital database using **synthetic transactions**.

EXPERIENCES

University of Washington   Seattle, WA
Biostatistics Tutor   *Oct. 2022 – Dec. 2022*
- Held two to three 2-hour sessions per week, tutored students in concepts and methods of biostatistics, data analysis, and R programming.

Guangzhou Yuexiu Local Taxation Bureau   Guangzhou, China
Data Analyst Intern   *Jul. 2019 – Sep. 2019*
- Retrieved and reviewed tax payment data of more than 200 companies and over 10,000 individuals in detail with **Excel**, reported entities with suspicious tax activities to assist in identifying instances of tax evasion. Increased the efficiency of the inspection process by approximately **25%**.
- Analyzed tax payment data with **Excel** and developed quarterly analytical tax payment reports with **Word** for over 200 companies.

Guangzhou Baiyun Int. Airport Business Travel Service Co., Ltd   Guangzhou, China
Sales Consultant Intern   *Jul. 2017 – Sep. 2017*
- Built daily sales reports using **Microsoft Word** and **Excel**, outlined financial data to assist management, and offered suggestions on operational decisions.
- Boosted branch sales by around **20%** by investigating customer needs through analysis of sales data.