

Yumin Yin

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EDUCATION

University of Washington Seattle, WA

Sept. 2019 – June 2023

- **Degree:** B.S. Degree in Applied Mathematics
- **GPA:** 3.8/4.0, Dean's list
- **Coursework:** Computer Programming I/II, Data Structures & Algorithms (JAVA), Databases & Data Modeling (SQL), Foundational Skills for Data Science (R), Core Methods in Data Science, Advanced Methods in Data Science (Python)

PROFESSIONAL EXPERIENCE

Ipsos – Data Analyst

Aug. 2021 – Sept. 2021

- Performed data cleansing and wrangling to do ad-hoc data analyses on cigarette markets in 5+ provinces in China in the past year, using Excel and Python
- Portrayed detailed cigarette consumer profiles over a collection of 2000+ consumers' answers, using Excel and Python
- Introduced a dynamic supply chain based on the detected trends of retail sales to stabilize the prices

NielsenIQ – Data Analyst

July 2021 – Aug. 2021

- Studied the effectiveness of 2 different holiday promotions on 10+ competing products, using functions and PivotTables in Excel
- Visualized the effectiveness of promotions by different measures, using Python and Power Point
- Developed and presented comprehensive plans for clients to capture more market share in future holiday campaigns

Sanli International Education Group – Teaching Assistant

June 2019 – Sept. 2019

- Graded 20+ students' daily practice, exercises, and assignments and provided feedback
- Explained to students tricky grammar problems and assisted students in reading difficult articles
- Reported students' learning progress to teaching staffs to help them with lesson plans

RELEVANT EXPERIENCE

Spam Filter & Image Categorization – Data Scientist

Sept. 2021 – Mar. 2022

- Developed a Bayes Theorem algorithm in Python with the optimal smoothing parameters to predict if an email is spam or ham, resulting in 99.8% accuracy on ~600 emails
- Wrote and optimized a neural network model with Python and TensorFlow to distinguish 4 different languages written in images with 96% accuracy on 6000+ images in the validation set

Vaccine Inequity – <https://yuminyin.shinyapps.io/project-yuminyin/>

Apr. 2021 – Jun. 2021

- Led a team of 3 people to do statistical analyses about the distribution of COVID-19 vaccine among 269 countries, using the dplyr package to perform dataframe manipulation in R
- Built a multi-page web application including 3 interactive pages with reactive charts, using ggplot2, plotly, and shiny in R

Database Modeling – Team Leader

Mar. 2021 – Jun. 2021

- Led a team of 5 people to conceive, diagram, code and populate a database with 20+ entities from scratch based on a clothing store
- Designed 10+ stored procedures to populate tables in the database and created 20+ user-defined functions to enforce the business rules and enable computed columns
- Performed queries and analysis of data, using JOIN, GROUP BY/HAVING statements, TOP, and aggregate functions in SQL programming language