

Haoming Shi

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EDUCATION

University of California Santa Barbara, September 2018 – June 2022(expected)

B.S. in Financial Math and Statistics, GPA 4.0/4.0

AWARDS/EXAMS

UCSB Dean's Honors Student (L&S), August 2018 – present

SOA Exam P (grades 10/10)

RELEVANT COURSEWORK

Mathematics:

Linear Algebra, Differential Equation, Real Analysis, Numerical Analysis.

Statistics:

Calculus based Probability and Mathematic Statistics, Stochastic Process sequence.

Regression Analysis, Machine Learning, Time Series. Survival Analysis.

COMPUTER SKILLS

Proficient: R Intermediate: Python, MySQL Basic: Linux, Java.

Microsoft Excel, Microsoft Word, Microsoft PowerPoint.

RESEARCH/PROJECT EXPERIENCE

Leading Causes of Death for Japanese Americans, Stanford University, June 2021 – present

Using the U.S. death certificates (2005 - 2017) from CDC to study the leading causes of death for Japanese Americans and compared the results to that of Japanese in Japan.

Currently writing the manuscript (first author), mentored by Dr. Fumiaki Ikeno.

Misdiagnosis of Rare Diseases in Asians, Stanford University, June 2021 – present

Conducting a systematic review to find out the rare diseases that have been particularly misdiagnosed or under-diagnosed among Asian Americans.

Currently in literature review stage (third author), mentored by Dr. Linda Geng.

Time Series Analysis on U.S. Monthly Sugar Production, UCSB, Apr. 2021 – June 2021

Employing the Box-Jenkins method to build time series models (performed on R) that fit the U.S. monthly sugar industrial production indices from 1985 to 2000 and assess the model's validity and the accuracy of forecasts through different diagnostic techniques (unit roots checking, residual checking, spectral analysis).

Predicting Outcomes of the U.S. Presidential Election in 2016, UCSB, Jan. 2021 – Mar. 2021

Building and training different classification models (KNN, logistic, discriminant analysis, random forests, boosting trees, all performed on R) using demographical information (county level) to predict the election outcomes in 2016 and comparing the accuracy.

Survival Analysis on a Cardiological Study in Pakistan, UCSB, Sep. 2020 – Dec. 2020

Using the Cox Proportional Hazard Model to study (performed on R) the survival of a group of heart failure patients from a cohort in Pakistan.

WORK EXPERIENCE

GVSUN Education Technology Co., Ltd., Suzhou China, June 2020 - August 2020

Under data management group, in charge of database update, backup, and migration (performed on Linux and MySQL).