

SHUANGFEI(SHERYL) SHI

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EDUCATION

Georgia State University

Doctor of Philosophy, Mathematics and Statistics
Department of Mathematics and Statistics

September 2020 - Present
Atlanta, GA, United States

University of California, Riverside

Master of Science, Statistics
Department of Statistics

September 2016 - June 2018
Riverside, CA, United States

Tianjin University

Bachelor of Engineering, Pharmaceutical Engineering
School of Chemical Engineering and Technology

September 2012 - June 2016
Tianjin, China

KEY SKILLS

Five-year experience in statistical analysis, statistical modeling, and data reporting.

Proficient in predictive modeling, regression analysis, longitudinal analysis, and survival analysis etc.

Proficient in machine learning models such as decision tree, random forest, KNN, neural network and clustering etc.

EXPERIENCE

Data Analyst at Post-Market Surveillance Team

Johnson & Johnson

Oct 2018 - Mar 2019
Irvine, United States

- Completed data analysis and developed automation of the complex post-market data analysis requirements and processes using robust software such as Advanced Excel and R.
- Collaborated and interacted with internal teams, including Manufacturing, Product Quality Engineering, Customer Quality and Supplier Quality in support of complaint signal detection, trending and post market quality surveillance.
- Presented results, facilitated discussion during data review meetings, proposed escalations, corrective, and preventative actions as required.
- Ensured the adequacy of the documentation of the post market surveillance activities in terms of regulatory compliance and technical/statistical soundness.

Research Assistant Internship

Lanyi Technology Co.

Aug 2017 - Sep 2017
Harbin, China

- Worked as a research assistant in a social network analysis group.
- Performed data cleaning, data manipulation, and data visualization procedure.
- Contributed to the change-point analysis for auto-correlated data.

Summer Institute

University of Washington, Seattle

Aug 2017
Seattle, United States

- Successfully completed an academic training program with certificates in data wrangling, visualization and deep learning offered by the Department of Biostatistics at the University of Washington.

Teaching Assistant*New Oriental Education & Technology Group Inc.*

April 2015 - April 2016

Tianjin, China

- Facilitated communication between students and foreign teachers.
- Proofread class materials

TECHNICAL STRENGTHS

Computer Languages

R, SAS, Python, C++, SQL

Project Management

Microsoft SharePoint, LaTeX, Tableau, Salesforce

ACADEMIC PROJECTS

Data Mining Project

April 2018 - May 2018

- Applied classification methods including KNN classifiers, SVC, SVM, neural network, logistic regression, decision trees, and random forest to NBA playoffs training data set.
- Compared the performance of all the classifiers applied to the test data set through estimating the misclassification rate.

Survival Analysis of D-Penicillamine

Feb 2018 - March 2018

- Summarized the baseline information and use Kaplan-Meier estimation to build the survival function.
- Performed unadjusted comparison, stratified comparison and covariates selection by using AIC and likelihood ratio test.

US Navy Device Operation Project

Jan 2018 - Feb 2018

- Used R and SAS to design, build and optimize a predictive time-series model based on the longitudinal data related to the battery life of devices. .
- Constructed the tolerance bound for future devices. Presented the results through data visualization, reports and presentation

Toenail Fungus Longitudinal Data Analysis

Oct 2017 - Dec 2017

- Determined mean structure and covariance structure for both fixed and random effects.
- Performed residual analysis and statistical references for the final mixed effect model.
- Formulated written report and presentations of the results to the non-technical audience.

Biomedical Research Project

April 2014 - April 2016

- Increase the productivity of high producing bacteria (NISIN) based on metabolic network media optimization.
- Structure-activity relationship of waste material from Lentinus Edodes (Shiitake) mushroom.

RELEVANT COURSES

Core Courses

Theory of Probability & Statistics
Regression ANOVA & Design
Bayesian Statistics
Survival Analysis
Discrete Data Analysis
Statistical Computing
Nonparametric Smoothing
Data Mining

Ongoing Course

Java Programming on Udemy