Baichen Xu

Newark, DE - Email me on Indeed:

Willing to relocate: Anywhere
Authorized to work in the US for any employer

WORK EXPERIENCE

Biostatistician

Siemens Healthineers   -   Newark, DE - August 2016 to Present

= Provide statistical support and consultant for Siemens assays and medical devices development.
= Generate SAP for evaluation and verification of new methods and instruments: focus on the section of study design, sample size estimation with programming SAS, primary endpoints, and statistical analysis part.
= Review study protocol, SAP and data specification for consistency with study objective.
= Generate validation plans and reports for SAS precisions and Analyze-It regressions.
= Develop SAS programs for data management, quantitative analysis and qualitative analysis: such as test familiarization, QC tracking, repeatability and reproducibility tables, ATD zone, PVG comparison, Method comparison and agreement tables.
= Design and perform survival analysis to support new device development.
= Perform weighted Deming regression with Analyze-It.
= Extensively create and use macros for routine programming tasks.
= Provide support in preparing reports, graphs, and other documents to FDA.

Data Scientist

The Children's Hospital of Philadelphia   -   Philadelphia, PA - October 2015 to August 2016

AudGenDB (The Audiological and Genetic Database) Program: Statistical studies of a large observational clinical database of hearing in pediatric patients.
= Collected patients' disease data and made all disease classification lists.
= Managed and mapped hearing test raw data files from different sites with audiologists.
= Imported raw data files with R for AudGenDB statistical group.
= Performed data cleaning and data management for AudGenDB dataset, including standardizing data structure, devising applied data and "bad data", combing datasets and creating new variables with R markdown.
= Coded R scripts for AudGenDB website to perform basic data description.

Research Assistant

Center for Family Intervention Science   -   Philadelphia, PA - December 2014 to October 2015

1. BHS (Behavioral Health Screen) Program: Designed for an adolescent and young adult patient population and consists of psychiatric symptom scales and risk behaviors that cover all the psychosocial areas suggested by best practice guidelines.
= Data cleaning and management for BHS online survey.
= Made patients basic information report and risked patients scores report for participant primary care sites and emergency departments.
= Performed data analysis for suicidal factors study with SAS, SPSS and R: one–way AVOVA, T-test, Tukey's Test, Univariate Analysis, Multivariate Analysis, Multiple Logistic Regression and Component Analysis, Latent Class Analysis, Latent Class Regression Analysis.

= Summarized data analysis reports and wrote method and result parts for model papers: "Suicidal Behavior and Substance Use in Adolescents: A Latent Class Analysis", "Identifying Groups of Primary Care Patients using Latent Class Analysis of Reported Suicidal Ideation and Behavior and Non-Suicidal Self-Injury", and "Bullying, Risk Behavior and Suicide in Adolescents".

2. Consult for an eating disorder study with SAS, including data pre-processing description.

Data Analyst

The Food Trust - Philadelphia, PA - June 2014 to August 2014

1. Corner Store Campaign: Improve fresh food access in corner stores.

= Designed marketing materials form and store visit conversation form for corner store interviewers.

= Built Access templates, including tables, forms and reports for healthy certification inventory assessment, promotion and visits.

2. Point of Sales (POS) Team: Manage sales record system with participant stores.

= Cleaned data for POS system.

= Used SQL to select, filter, classify and combine data from POS system.

= Used SQL to analyze the change of sales volume to compare the time points between commodity sales and store owners clicks.

= Created sales condition reports for participate stores to monitor changing of marketing structure.

EDUCATION

M.S. in Biostatistics

Drexel University - Philadelphia, PA
September 2013 to June 2015

B.A. in Mathematics and Applied Mathematics

China University of Mining and Technology - Xuzhou, CN
September 2008 to June 2012

Minor Study in Finance

China University of Mining and Technology - Xuzhou, CN
2008 to 2012

SKILLS

SAS (3 years), R (3 years), SQL (3 years), Spss (2 years), Matlab (1 year), Mathematics software (4 years), Mathematics (7 years), Statistics (7 years), Modeling (5 years), Data Analysis (3 years), Data Management (3 years), SAS (3 years), Microsoft Office (7 years), excel solver (2 years)

CERTIFICATIONS/LICENSES

SAS Certified Advanced Programmer for SAS 9

SAS Certified Base Programmer for SAS 9

ADDITIONAL INFORMATION

= Solid knowledge of Clinical trial method, experimental Design, interpretation of analysis results, GLM, logistic regression model, parametric and non-parametric analysis, Survival Analysis (log-rank test and Cox Proportional model), ANOVA and mixed effect model.

= 4 years' experience of SAS, proficient with SQL, BASE, MACRO, STAT, GRAPH and REPORT.

= 4 years' experience of R programming techniques and programs, including Knitr, WinBUGS and R Markdown.

= Excellent knowledge of SPSS, Matlab and Mathematics; familiar with VBA and C++.

= Familiar with CDISC standards and clinical trial procedures

= Experienced in writing and reviewing statistical analysis plan (SAP)

= Excellent communication skills, both oral and written; organizational skills for multitasking and keeping consistent and accurate records; good self-learning and problem-solving skills; excellent team player with high level of personal initiatives