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Summary

- 5 years data analysis
- 7 years SAS programming experience, 1 year python
- results used by more than 4 research studies every year: impact

Education

2008 – 2010 George Washington University, M.S. in Statistics, GPA 3.91/4.0.

2004 – 2008 China Agricultural University, B.S. in Mathematics, GPA 3.30/4.0.

Publications

Framework Content Coverage Variation in NAEP: Grade 8 Mathematics and U.S. History. Young Yee Kim, Fei Liu, Sharyn Rosenberg. In The American Educational Research Association Annual Meeting, 2014.

Technical Skills

Statistics: multiple regression, logistic regression, ANOVA, categorical data analysis, multivariate data analysis, factor analysis, principle component analysis, generalized linear models, mixed model, hierarchical liner model, model-assisted sampling survey, variance estimation using Taylor series, Bootstrap, and Jackknife methodology

Programming Languages: proficient in SAS, specifically, its data step, STAT, PROC IML, Macro language, and PROC SQL; prior experience in R, STATA, SPSS, Matlab, and Python

Operating Systems: Mac OS X and Windows

Databases: MySQL

Certifications

- SAS Certified Base Programmer
- SAS Certified Advanced Programmer
- Coursera Computing for Data Analysis

Experience

11/10 - Research Associate, American Institute for Research/MacroSys LLC, Washington DC.

Present National Assessment of Education Progress (NAEP) project

- o Conduct statistical analyses for technical reports and research studies using NAEP's large scale longitudinal database in SAS
- o Conduct technical review of NAEP data file, report and technical documentation for statistical, psychometric methodological accuracy

Common Core of Data survey project (CCD)

- Create SAS code to review and edit preliminary data collected from the National Center for Education Statistics Common Core of Data nonfiscal Surveys and generated Excel output using SAS/BASE, Macros, PROC SQL and ODS. Imputed missing data item according to the requirement of client
- Provide technical support in CCD report development and documentation creation
- Conduct Ad-hoc research study and data request using CCD survey data

- 1/10 9/10 **Research Data Analyst Intern**, Education Data and Policy Center, Academy for Educational Development, Washington DC.
 - Extract education indicators from household survey using STATA, SPSS.
 - Collect and Format data from global website, Checking data reliability.
 - Query data already housed in the database using MySQL.
 - Generating graph reports in EXCEL/VBA/Macro.
 - Participating in research discussion, recommending analytical methodologies, interpreting and presenting analytical results.
 - Validate data from StatCompiler to EPDC extraction using SAS/ Proc gplot/proc sql, merging data
- 1/09 5/09 **Teaching Assistant**, George Washington University, Washington DC.
 - Intro. to Statistics, grading.
 - Statistical Modeling, Regression Analysis one-on-one tutoring.
- 11/07 1/08 Statistical Programmer, China Agricultural University, Beijing, China.
 - Collected and analyzed experimental data in SAS.
 - Analyzed data with PROC FREQ, MEANS, UNIVERIATE, and PLOT.
 - Extracted data in DATA step from various data sources such as Excel, ACCESS and other PC data formats, SQL databases.
 - Manipulated large datasets in DATA step by using By-group processing, data combining and merging, and also using PROC SQL.
 - Produced summary reports by using PROC TABULATE and PROC REPORT, creating and retrieving user-defined formats.
- 6/07 8/07 **Research Assistant**, China Agricultural University, Beijing, China.
 - Managing research databases.
 - Calculating sample size and power for pilot study of grant proposals.
 - Conducting parametric & non-parametric data analysis: Generalized Linear Model, MIXED Model, Survival Analysis, Factor Analysis, Structural Equation Model, Repeated Measures.
 - Imputing missing data and transforming data.

Awards

- 2013 Excellent Employee of the Year, MacroSys LLC
- 2007 3rd Prize Academic Scholarship, China Agriculture University
- 2006 3rd Prize Academic Scholarship, China Agriculture University
- 2005 1st Prize for Beijing Undergraduate Art Contest in Dancing, China

Selected Courses

Data Analysis