

PROFESSIONAL EXPERIENCE

United States Census Bureau, Small Area Methods Branch, Washington, D.C., November 2009 – Present
Mathematical Statistician

- Research methodological changes to Small Area Health Insurance Estimates model
- Perform quality assurance checks on preliminary and production data
- Perform exploratory research on model input and output
- Implement MCMC methods in various software packages
- Review code, technical documents, and research papers

University of South Carolina, Statistics Department, Columbia, South Carolina, August 2007 - May 2009
Graduate Assistant

- Designed and taught course curriculum for introductory statistics
- Instructed statistics laboratory sections
- Graded for mathematical and introductory statistics courses
- Attended class full time

EDUCATION

University of South Carolina, Columbia, SC

Master of Science, Statistics, May 2009

Magna cum laude

Related Coursework: Data Analysis I & II, Mathematical Statistics I & II, Linear Models, Sampling, Computing in Statistics, Longitudinal Data Analysis, Experimental Design, Practicum in Statistical Consulting

University of South Carolina, Columbia, SC

Bachelor of Science, Mathematics, May 2007

Minor: Computer Science

Cum laude

AWARDS & PUBLICATIONS

- Bronze Medal Award for Superior Federal Service, awarded for work on Small Area Health Insurance Estimates program
- *Small Area Estimation of Health Insurance Coverage in 2010-2013*, U.S. Census Bureau website, technical specification of Small Area Health Insurance Estimates modeling process
- *A Three-Part Model for Survey Estimates of Proportions*, Joint Statistical Meetings, 2011
- *Variance Modeling Research for the Small Area Health Insurance Estimates Program*, Federal Committee on Statistical Methodology, 2013
- Recipient of the Palmetto Fellows Scholarship

SKILLS

SAS, R, C, Linux