University of Alabama at Birmingham
School of Nursing

Job Description
STATISTICIAN II – Dr. Puga (80%), Dr. Jablonski (10%),
Dr. Wheeler (10%)
UAB Employment Site Number: T218221

JOB SUMMARY:
This position mainly supports and reports to the Principal Investigator (PI) on an NIH-funded project: The Mental Health Experiences of Hispanic and Latino/a Dementia Caregivers. The purpose of the project is to examine contextual, individual-level, and cultural factors associated with the day-to-day mental health experiences of Hispanic and Latino/a dementia caregivers. This position will also support other NIH-funded projects with intensive longitudinal data on aging, cognition, and dementia caregiving. This individual will manage REDCap databases for multi-time series studies, prepare data files for analyses, and run advanced statistical models to analyze nested, intensive longitudinal data. The individual will also oversee and manage the security and integrity of data in compliance with university and lab protocols, manage data submissions in compliance with NIH data archiving requirements, provide data for NIH milestone reporting, and prepare written reports for grants and manuscripts. Primary types of analyses include multi-level mixed effect models, multi-level structural equation modeling, dynamic structural equation modeling, multi-level latent class analysis, and multi-level EFA/CFA. This individual will work directly under the guidance of the PIs and Co-Investigators but should be able to work independently, with minimal supervision.

RESPONSIBILITIES:
1. Maintaining syntax, storing data, and preparing reports on recruitment, enrollment, and attrition in accordance with NIH reporting requirements.
2. Programming of data collection software, primarily in REDCap, but including other applications to meet project needs.
3. Creating and managing research databases, including merging files, completing data transformations, performing quality control checks, preparing datasets for analyses, and completing analyses as discussed with the PIs and study team.
4. Responsible for maintaining syntax, data documentation/meta-data, and overseeing data storage/backup per lab protocols. As needed, responsible for creating and adhering to a data archiving plan in accordance with ISPCR and NIA archive guidelines.
5. Creating R and SPSS code for various weekly reports and manuscript analyses.
6. Consulting on best practices for statistical analyses for various projects.
7. Generating and preparing tables, charts, graphs, and narratives for manuscripts, data safety monitoring board reports, and project reports to NIH.
8. Under the direction of the PI and study team, running complex statistical models primarily using multi-level modeling, latent class analysis, and group-based trajectory analysis to achieve study aims.
9. Other duties as assigned to support the project goals, including writing up data analysis and findings for manuscripts, preparing data for presentations, conducting literature searches to suggest new approaches to analyses or paper ideas for the current data.
10. Providing quantitative assistance with other projects as required based on availability of funding.

Minimum Requirements:
A Master’s degree in a quantitative methodology field, such as quantitative psychology, statistics, math, or a related field, and three years of related experience are required. A graduate degree in quantitative methodology in behavioral and social science is preferred. The individual in this role must have extensive knowledge and proficiency using R and SPSS. The ideal candidate will be comfortable using data management software and have the ability to learn new software programs (e.g., mPLUS). Previous experience working with large-scale, multi-level datasets related to aging, mental health, caregiving, and/or sociocultural factors is strongly preferred. This position requires strong written and verbal communication skills, including generating high-quality technical reports and presentations. This individual should adapt well to change and work independently as well as within a team setting, consulting with other lab members (post-docs, grad students) and team collaborators to achieve project goals. Adherence to the UAB Enterprise Code of Conduct is required.