Post-Doctoral Fellowship in Bio-behavioral Statistics  
Department of Public Health Sciences

Position #P100017501 Summary:

This is a unique 2-year fellowship to work with a statistical analysis unit under the leadership of Dr. Daniel J. Feaster, Associate Professor of Biostatistics, Department of Public Health Sciences. The Bio-behavioral statistics unit focuses on substance use and HIV-associated research including large, multi-site clinical trials, dissemination trials and methodological research around treatment heterogeneity and prediction of individual-level treatment effects. The Fellow will have unique opportunities to design and implement simulation studies of machine learning techniques for prediction of heterogeneity in treatment effects, to plan, design and analyze clinical trials, to author and co-author articles, to submit extramural grants, to present research findings at national and international meetings, and to collaborate with Center for AIDS Research investigators at the University of Miami. Research applications include interventions on drug abuse, risky sexual behavior, HIV testing, and HIV retention in care. Methodologic analytic tools will include machine learning techniques (e.g., random forests) but also will include more traditional methods such as growth curve analysis, latent class analysis, mediation and moderation analysis as well as methods for translational and implementation research. Training involves a range of theoretical and applied experiences, course-work from the Biostatistics PhD sequence, if appropriate, as well as working collaboratively on major grants funded by National Institutes of Health.

Principle Duties/Responsibilities:

- Prepare results for first author and co-authored peer-reviewed publications
- Participate and provide leadership for team meetings, attend departmental seminars, and participate in other training and professional development experiences such as national and international meetings
- Collaborate with a large research team in planning, execution and analysis of large clinical trials.
- Collaborate on machine learning techniques for individual treatment outcome prediction.
- Collaborate on and lead the preparation of extramurally funded research grants
- Analyze, interpret and present data from multiple, large clinical databases using advanced statistical methods and packages such as R, SAS, and M-Plus
- Provide support and mentor graduate students working in the research team
- Other duties as assigned

Minimum Requirements:

- PhD in Biostatistics, Epidemiology/Public Health, Quantitative Psychology (or related field)
- Effective communication skills (both verbal and written) including teaching experience, presentations at scientific meetings
- Proficiency with advanced quantitative methods, including growth and multilevel models
- Proficiency with statistical software and computing software
- Excellent organizational and interpersonal skills, and ability to work both collaboratively and independently

For further information please contact Dr. Daniel (Dan) Feaster at dfeaster@miami.edu or fill out an application at:  
https://um.hodesiq.com/job_detail.asp?JobID=5329006&user_id=&ViewAll=