

The Clinical & Translational Neuroscience Unit (CTNU) in the Laboratory of Behavioral Neuroscience (LBN), is seeking a talented and experienced data analyst who can have an immediate impact on an expanding laboratory in the intramural program at the National Institute on Aging (NIA).

The overarching goal of the CTNU is to comprehensively study the metabolic basis of Alzheimer's disease (AD) pathogenesis in humans, identify critical perturbations in both central and systemic metabolism in the early stages of disease progression and pinpoint the principal regulators of key metabolic pathways that may present plausible targets for disease modification. To achieve these goals, we use several approaches including 1) applying mass spectrometry-based metabolomics and proteomics for the discovery of novel biomarkers predictive of disease before symptom onset; and 2) relating genetic, environmental, and clinical risk factors to changes in brain structure, function and pathology during aging.

We currently employ a number of computational methods (i.e. biostatistical, epidemiologic, computer science) on large metabolomic, clinical, and neuroimaging datasets available within the Baltimore Longitudinal Study of Aging (BLSA), and other datasets including the Alzheimer's Neuroimaging Initiative (ADNI), and the National Institute on Aging Genetics of Alzheimer's Disease Data Storage Site (NIAGADS).

The Data analyst will, at minimum, have the following **responsibilities**:

- Perform and present statistical analyses (e.g., cross-sectional, longitudinal and survival analyses) and data visualization (publication quality) using statistical software packages (e.g., STATA, R, SAS, Python) in collaboration with PI, staff, and outside collaborators of the CTNU
- Work with project leaders and staff of the BLSA to manage and maintain metabolomic, proteomic and other databases.
- Assist with research coordination of projects within the CTNU and with outside collaborators and institutions.
- Assist PI and staff in the design of experiments, routine progress reports and manuscript preparation (as an active co-author).
- Other duties as assigned.

Preferred qualifications include:

- Current or completed masters in epidemiology, biostatistics, computer science or related field.
- 1-3 years related experience (within or outside graduate school) working with a team on data analysis and data management on various large databases (i.e. Big Data).
- Proficiency in R, STATA, SAS, Python, or other statistical package

Excellent communication skills, ability to present analyses results and data visualization at lab meetings, strong attention to detail, ability to work independently, and excellent ability in a collaborative team.