ISTAART Immersives: Analytic Approaches for Neuropsychiatric Symptom Scales with Non-Normal Distributions

Friday, July 10, 2026 | 8 a.m. - 12 p.m.
Arora 4, 7 — InterContinental — London, United Kingdom
All times are in British Summer Time
In-person attendance only

Overview

This workshop is a collaboration of the Design and Data Analytics (DaDA) and the Neuropsychiatric Syndromes (NS) PIAs. It will review commonly-used neuropsychiatric scales and statistical approaches depending on the distribution. Examples from different AD datasets will be used to demonstrate regression techniques (sample code will be provided). The workshop will begin with an overview of the different scales used to measure neuropsychiatric symptoms in neurocognitive disorders will be provided. Next, we will discuss data generated from neuropsychiatric scales, their key characteristics, and how to determine the best modelling approach. We will then provide a dataset and R code for hands-on practice in modelling the data using linear and non-parametric approaches. Attendees will have the opportunity to work interactively with the workshop presenters on analyzing the provided data.

Organizing Committee

- Michael Malek-Ahmadi
- Byron Creese, PhD

Target Audience

Learning Objectives

- Review Neuropsychiatric Scales commonly used quantify affective and behavioral syndromes in the AD spectrum.
- Review the distribution of Neuropsychiatric Scales from different AD studies and discuss model selection and adequacy.
- Learn how to utilize linear and non-parametric modeling approaches to neuropsychiatric scale data.

Registration

Pre-conferences are offered for in-person attendance only. Preconferences require a separate registration fee in addition to AAIC full conference registration, or they may be purchased as stand-alone events. Visit alz.org/AAIC.

Agenda: Friday, July 10, 2026 | 8 a.m. - 12 p.m.

Time	Session Details	Speakers and Moderator
8:00 a.m - 8:15 a.m	Welcome, Introductions, Technical and Software Check for Attendees	
8:15 a.m - 9:00 a.m	Overview of Select Neuropsychiatric Assessments	
9:00 a.m - 10:45 a.m	Characteristics of the NPI Scales, Model Building and Model Fit	
10:45 a.m. – 11:00 a.m.	**Break**	
11:00 a.m - 12:00 p.m.	Discussion and Hands-On Analysis in R	