Applied Regression Analysis in R for Neuropsychiatric Syndrome Scales

Friday, July 25, 2025 | 8 a.m. – noon
Westin Harbour Castle- Pier 7&8 — Toronto, Canada
All times are in Eastern Standard Time
In-person attendance only

Overview

This workshop will provide attendees with an applied, hands-on data analysis experience where they will run different types of regression analyses in the R statistical package. The workshop will begin with a brief introduction to the syntax used in R programming and attendees will be provided with examples of R code that they can run independently with datasets that will be provided. The workshop will begin with an overview of linear regression and will then transition to other types of regression analysis that can be used when data are not normally distributed.

Organizing Committee

- Michael H. Malek-Ahmadi, PhD
- Banner Alzheimer's Institute
- Arizona Alzheimer's Consortium
- University of Arizona College of Medicine-Phoenix

Target Audience

This ISTAART immersive workshop is designed for researchers at the beginner and intermediate levels.

Learning Objectives

1. Review neuropsychiatric scales used to quantify affective and behavioral disturbances in the AD spectrum.
2. Understand their leadership characteristics and how to improve them

Registration

Educational workshops are offered for in-person attendance only. Workshops require a separate registration fee in addition to AAIC full conference registration, or they may be

Agenda: July 26, 2025 | 8:00 am - 12:00 PM

Time	Session Details	Speakers and Moderator
7:00-8:00 am	Light Breakfast *(Westin Metropolitan Ballroom)*	
8:00 - 8:15 am	Welcome, Introductions, Technical and Software Checks for Attendees	Mike Malek-Ahmadi
8:15 - 8:45 am	Overview of Select Neuropsychiatric Assessments	Dylan Guan
8:45 - 9:15 am	Introduction to R and Assessing Distribution Shape	Mike Malek-Ahmadi
9:15 - 10:00 am	Linear Regression, Model Fit, Covariate Selection	Mike Malek-Ahmadi
10:00 - 10:45 am	Robust Regression, Negative Binomial Regression, Logistic Regression	Mike Malek-Ahmadi
10:45 - 11:00 am	**Break**	
11:00 am - 12:00 pm	Hands-On Interactive Instruction	Mike Malek-Ahmadi, Dylan Guan