AERA 2024 - PD24-07 Using R and Generative AI for **NAEP Data Analysis**



EdSurvey Team: Sinan Yavuz, Ting Zhang, Paul Bailey, Blue Webb & Emmanuel Sikali

Sat, April 13th 7:45 am to 11:45 am

Pennsylvania Convention Center Floor: Level 100, Room 107B Philadelphia, PA

Agenda

Presenter	Time	Session
Emmanuel	7:45–7:55 a.m.	Course Overview, Introductions
Ting	7:55–8:40 a.m.	 Introduction to Large-scale Assessments Complex sampling design Plausible values
	8:40–8:45 a.m.	5 mins Break
Blue	8:45–9:05 a.m.	 Introduction to Generative AI Chatbots Background Tips on how to use it
	9:05–9:10 a.m.	5 mins Break
Sinan	9:10–9:25 a.m.	Intro to R and Why EdSurvey

Presenter	Time	Session
Paul	9:25–9:55 a.m.	The R "EdSurvey" package functionality intro Data Processing (20 mins) Data manipulation (with cheat sheet) (10 mins)
	9:55–10:00 a.m.	5 mins Break
Sinan	10:00–10:20 a.m.	 The R "EdSurvey" package functionality intro Summary statistics and Cross tabulation Achievement levels and percentiles (ebook only)
Ting	10:20–10:40 a.m.	Gap Analyses
Blue	10:40–11:00 a.m.	Linear regression
Sinan	11:00–11:10 a.m.	Logistic regression
	11:10-11:15 a.m.	5 mins Break
Hands on	11:15–11:35 a.m	Hands-on practice and Q&A
Emmanuel	11:35–11:45 a.m.	Wrap up and Q&A

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