

Simplifying, Identifying, and Evaluating Dimensions: Exploratory and Confirmatory Factor Analysis

Schedule

Monday	
10:00 – 11:30	Introduction to factor analysis theoretical assumptions, principles
11:30 – 11:45	Coffee Break
11:45 – 13:15	Review of Basic Statistical Tools. Introduction to Data File for Guided Practice: Student Conceptions of Assessment v6
13:15 – 14:15	Lunch
14:15 – 15:45	Scale Analysis: Simplest approach to a single dimension; discussion of estimators Practice: Import data (SCoA-VI) & Calculate Scale Reliabilities for the scales (JAMOVI)
15:45 – 16:00	Coffee Break
16:00 – 17:30	Self-study
Tuesday	
10:00 – 11:30	Exploratory Factor Analysis Principles: What makes a factor a factor
11:30 – 11:45	Coffee Break
11:45 – 13:15	Deciding on number of factors
13:15 – 14:15	Lunch
14:15 – 15:45	Demonstration & practice with SCoA data (JAMOVI)
15:45 – 16:00	Coffee Break
16:00 – 17:30	Self-study
Wednesday	
10:00 – 11:30	Confirmatory Factor Analysis Principles: What's Different to EFA
11:30 – 11:45	Coffee Break
11:45 – 13:15	Estimation & Fit
13:15 – 14:15	Lunch
14:15 – 15:45	Demonstration & practice with SCoA data (JAMOVI)
15:45 – 16:00	Coffee Break
16:00 – 17:30	Self-study
19:00 – 21:00	Summer School Sight-Seeing Tour
Thursday	
10:00 – 11:30	Troubleshooting Inadmissible & Problematic Solutions
11:30 – 11:45	Coffee Break
11:45 – 13:15	Alternative Model Structures

13:15 – 14:15	Lunch
14:15 – 15:45	Demonstration & practice with SCoA data (JAMOVI; lavaan)
15:45 – 16:00	Coffee Break
16:00 – 17:30	Self-study
Friday	
10:00 – 11:30	Nested Invariance Testing
11:30 – 11:45	Coffee Break
11:45 – 13:15	Latent Curve Analysis
13:15 – 14:15	Lunch
14:15 – 15:45	Demonstration & practice with SCoA data (lavaan)
15:45 – 16:00	Coffee Break
16:00 – 17:30	Self-study
Saturday	
10:00 – 11:00	Wrap-Up
11:00 – 11:15	Coffee Break
11:15 – 12:00	Feedback and certificates