



ANALYZING INTENSIVE LONGITUDINAL DATA (AILD)

Tilburg University

December 13 - 17, 2021

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AILD Workshop Description

Intensive longitudinal methods, often called experience sampling, daily diary, or ecological momentary assessment methods, allow researchers to study people's thoughts, emotions, and behaviors in their natural contexts. Typically, they involve self-reports from individuals, dyads, families or other small groups over the course of hours, days, and weeks. Such data can reveal life as it is actually lived and provide insights that are not possible using conventional experimental or survey research methods. Intensive longitudinal data, however, present data analytic challenges stemming from the multiple levels of analysis and temporal dependencies in the data. The multilevel or mixed-effects model for longitudinal data is a flexible analytic tool that can take account of these complexities, and the goal of the workshop is to provide training in its use.

Drawn from the presenters' recent book, *Intensive Longitudinal Methods: An Introduction to Diary and Experience Sampling Research* (2013; Guilford Press), course topics will include: (a) introduction to intensive longitudinal methods and designs; (b) analyzing the time course of continuous outcomes; (c) analyzing within-person causal processes for continuous outcomes; (d) dyadic intensive longitudinal data; (e) modeling the time course and causal processes for categorical outcomes; (f) psychometrics of intensive longitudinal data; (g) statistical mediation; (h) power analyses for intensive longitudinal studies. Various software packages may be used, but there will be an emphasis on R and Mplus.

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Daily Schedule

AILD Day 1: Monday, December 13, 2021	
8:30 am to 9:00 am	Registration and check-in
9:00 am to 10:10 am	I. Introduction and Overview of Intensive Longitudinal Methods
10:10 am to 10:25 am	Coffee Break (15 min)
10:25 am to 11:25 am	I. Introduction and Overview of Intensive Longitudinal Methods (con't)
11:25 am to 11:40 pm	Coffee Break (15 min)
11:40 am to 12:30 pm	I. Introduction and Overview of Intensive Longitudinal Methods (con't)
12:30 pm to 1:30 pm	Lunch
1:30 pm to 2:40 pm	II. Modeling the Time Course of Continuous Outcomes: A Full Cycle Approach
2:40 pm to 2:55 pm	Coffee Break (15 min)
2:55 pm to 3:55 pm	II. Modeling the Time Course of Continuous Outcomes: A Full Cycle Approach (con't)
3:55 pm to 4:10 pm	Coffee Break (15 min)
4:10pm to 5:00 pm	II. Modeling the Time Course of Continuous Outcomes: A Full Cycle Approach (con't)
AILD Day 2: Tuesday, December 14, 2021	
9:00 am to 10:10 am	II. Modeling the Time Course of Continuous Outcomes: A Full Cycle Approach (con't)
10:10 am to 10:25 am	Coffee Break (15 min)
10:25 am to 11:25 am	III. Modeling the Within-Person Process of Continuous Outcomes
11:25 am to 11:40 pm	Coffee Break (15 min)
11:40 am to 12:30 pm	III. Modeling the Within-Person Process of Continuous Outcomes (con't)
12:30 pm to 1:30 pm	Lunch
1:30 pm to 2:40 pm	III. Modeling the Within-Person Process of Continuous Outcomes (con't)

2:40 pm to 2:55 pm	Coffee Break (15 min)
2:55 pm to 3:55 pm	IV. Five Fundamental Guidelines for IL Data
3:55 pm to 4:10 pm	Coffee Break (15 min)
4:10pm to 5:00 pm	IV. Five Fundamental Guidelines for IL Data
AILD Day 3: Wednesday, December 15, 2021	
9:00 am to 10:10 am	V. Modeling IL Categorical Outcomes
10:10 am to 10:25 am	Coffee Break (15 min)
10:25 am to 11:25 am	V. Modeling IL Categorical Outcomes (con't)
11:25 am to 11:40 pm	Coffee Break (15 min)
11:40 am to 12:30 pm	V. Modeling IL Categorical Outcomes (con't)
12:30 pm to 1:30 pm	Lunch
1:30 pm to 2:40 pm	VI. Psychometrics of IL Data
2:40 pm to 2:55 pm	Coffee Break (15 min)
2:55 pm to 3:55 pm	VI. Psychometrics of IL Data (con't)
3:55 pm to 4:10 pm	Coffee Break (15 min)
4:10pm to 5:00 pm	VI. Psychometrics of IL Data (con't)
AILD Day 4: Thursday, December 16, 2021	
9:00 am to 10:10 am	VII. Modeling Within-Person Mediation Processes
10:10 am to 10:25 am	Coffee Break (15 min)
10:25 am to 11:25 am	VII. Modeling Within-Person Mediation Processes (con't)
11:25 am to 11:40 pm	Coffee Break (15 min)
11:40 am to 12:30 pm	VII. Modeling Within-Person Mediation Processes (con't)
12:30 pm to 1:30 pm	Lunch
1:30 pm to 2:40 pm	VIII. Modeling Dyadic IL Data
2:40 pm to 2:55 pm	Coffee Break (15 min)
2:55 pm to 3:55 pm	VIII. Modeling Dyadic IL Data (con't)
3:55 pm to 4:10 pm	Coffee Break (15 min)

4:10pm to 5:00 pm	VIII. Modeling Dyadic IL Data (con't)
AILD Day 5: Friday, December 17, 2021	
9:00 am to 10:10 am	VIII. Modeling Dyadic IL Data (con't)
10:10 am to 10:25 am	Coffee Break (15 min)
10:25 am to 11:25 am	IX. Future Modeling Extensions for IL Data
11:25 am to 11:40 pm	Coffee Break (15 min)
11:40 am to 12:30 pm	IX. Future Modeling Extensions for IL Data (con't)
12:30 pm to 1:30 pm	Lunch
1:30 pm to 2:40 pm	IX. Future Modeling Extensions for IL Data (con't)
2:40 pm to 2:55 pm	Coffee Break (15 min)
2:55 pm to 3:55 pm	IX. Future Modeling Extensions for IL Data (con't)
3:55 pm to 4:10 pm	Coffee Break (15 min)
4:10pm to 5:00 pm	Overflow and Q&A