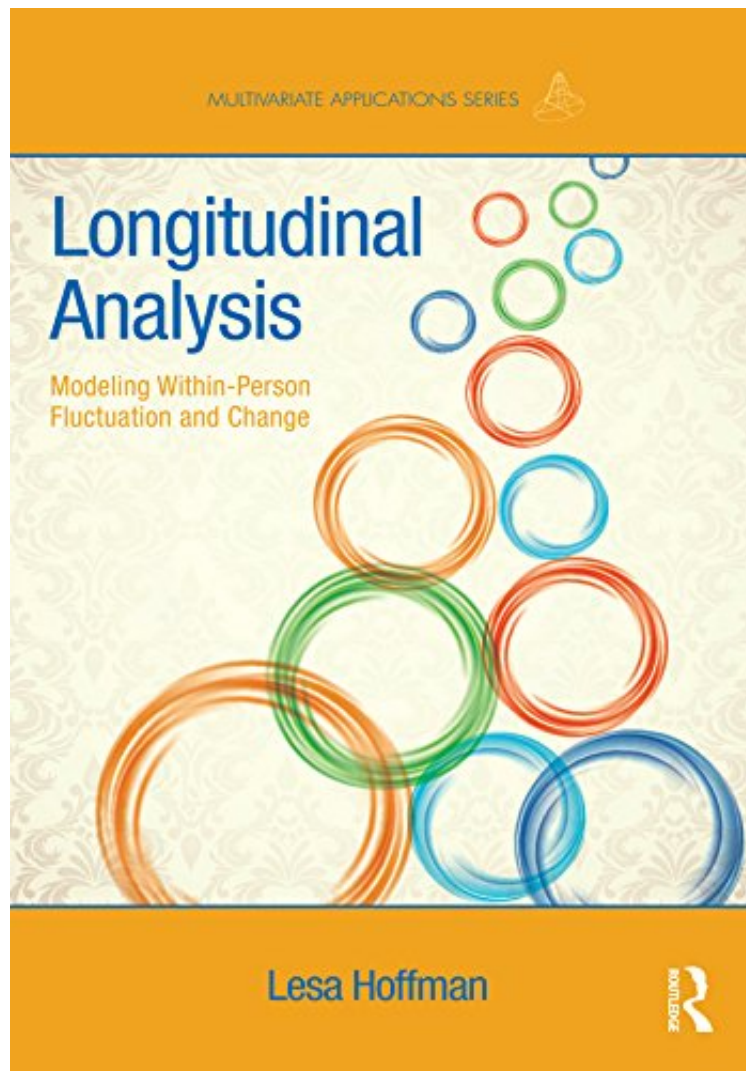


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Longitudinal Analysis: Modeling Within-Person Fluctuation and Change (Multivariate Applications Series)

Lesa Hoffman

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Lesa Hoffman : Longitudinal Analysis: Modeling Within-Person Fluctuation and Change (Multivariate Applications Series) before purchasing it in order to gage whether or not it would be worth my time, and all praised Longitudinal Analysis: Modeling Within-Person Fluctuation and Change (Multivariate Applications Series):

1 of 1 people found the following review helpful. An excellent book on longitudinal data analysisBy Dr. Gabriel LibermanProf. Lesa Hoffman has written an excellent book on longitudinal data analysis, as simple as that, and this is the strength of the book. It covers all main topics of longitudinal analysis from the most basic to the most complex

cases, but Prof. Hoffman develops a methodology that simplifies this tough issue by means of examples, illustrations, and clear explanations. One major advantage of this book is its proposed formats for reports. As data analysts, we always struggle with these dilemmas of what to report and how to report it. Prof. Hoffman solves this problem by offering the right content of a report on longitudinal analysis results that meets top publication requirements. This book has become my textbook for modeling longitudinal analysis and I believe many think the same about it.

Dr. Gabriel Liberman
Data-Graph Statistical Consulting at: www.data-graph.com
1 of 1 people found the following review helpful. Great book
By Amir G. Great great book ! especially for beginners like myself !
1 of 1 people found the following review helpful. Outstanding resource for your bookshelf
By Scott Formica This is an extremely approachable text on the topic. One of the best I have read. The accompanying materials on her website and lectures from previous speaking engagements are an added bonus.

Longitudinal Analysis provides an accessible, application-oriented treatment of introductory and advanced linear models for within-person fluctuation and change. Organized by research design and data type, the text uses in-depth examples to provide a complete description of the model-building process. The core longitudinal models and their extensions are presented within a multilevel modeling framework, paying careful attention to the modeling concerns that are unique to longitudinal data. Written in a conversational style, the text provides verbal and visual interpretation of model equations to aid in their translation to empirical research results. Overviews and summaries, boldfaced key terms, and review questions will help readers synthesize the key concepts in each chapter. Written for non-mathematically-oriented readers, this text features:

- A description of the data manipulation steps required prior to model estimation so readers can more easily apply the steps to their own data
- An emphasis on how the terminology, interpretation, and estimation of familiar general linear models relates to those of more complex models for longitudinal data
- Integrated model comparisons, effect sizes, and statistical inference in each example to strengthen readers' understanding of the overall model-building process
- Sample results sections for each example to provide useful templates for published reports
- Examples using both real and simulated data in the text, along with syntax and output for SPSS, SAS, STATA, and Mplus to help readers apply the models to their own data

The book opens with the building blocks of longitudinal analysis: general ideas, the general linear model for between-person analysis, and between- and within-person models for the variance and the options within repeated measures analysis of variance. Section 2 introduces unconditional longitudinal models including alternative covariance structure models to describe within-person fluctuation over time and random effects models for within-person change. Conditional longitudinal models are presented in section 3, including both time-invariant and time-varying predictors. Section 4 reviews advanced applications, including alternative metrics of time in accelerated longitudinal designs, three-level models for multiple dimensions of within-person time, the analysis of individuals in groups over time, and repeated measures designs not involving time. The book concludes with additional considerations and future directions, including an overview of sample size planning and other model extensions for non-normal outcomes and intensive longitudinal data.

Class-tested at the University of Nebraska-Lincoln and in intensive summer workshops, this is an ideal text for graduate-level courses on longitudinal analysis or general multilevel modeling taught in psychology, human development and family studies, education, business, and other behavioral, social, and health sciences. The book's accessible approach will also help those trying to learn on their own. Only familiarity with general linear models (regression, analysis of variance) is needed for this text.

"This book will fill the void for a complete, accessible text on longitudinal data analysis. ... The writing style is conversational and non-threatening. ... The author walks the readers through the examples in a way that makes them easy to follow. ... To have a single book that covers the complete topic of multilevel modelling related to longitudinal analysis would be exactly what I would need for my multilevel modelling course." ndash; Michael J. Rovine, Penn State University, USA "I would definitely recommend it as required reading in the longitudinal analysis course. It addresses in an accessible way, so many of the questions that non-statisticians and researchers new to longitudinal analysis ask or should ask. I have no doubt that this book will make a significant contribution to the field. I have been waiting many years for a book like this!" ndash; Andrea Piccinin, University of Victoria, Canada "This book fills a gap by being more accessible than just about any other book on the topic. [It] provides a thorough introductory treatment that will be accessible to students, while also serving as a good reference text for more experienced users. Hoffman shows that these complex models are within the reach of any student or researcher with a basic knowledge of regression." ndash; Kristopher Preacher, Vanderbilt University, USA "Dr. Hoffman offers a highly informative, comprehensive and accessible book that will be very useful to students and researchers interested in modeling multilevel and longitudinal data. The writing is very clear, incorporating necessary methodological details while using an understandable application approach." - Lisa L. Harlow, University of Rhode Island, USA

About the Author
Lesia Hoffman is the Scientific Director of the Research Design and Analysis Unit and Associate Professor of Quantitative Methods in the Schiefelbusch Institute for Life Span Studies at the University of Kansas.