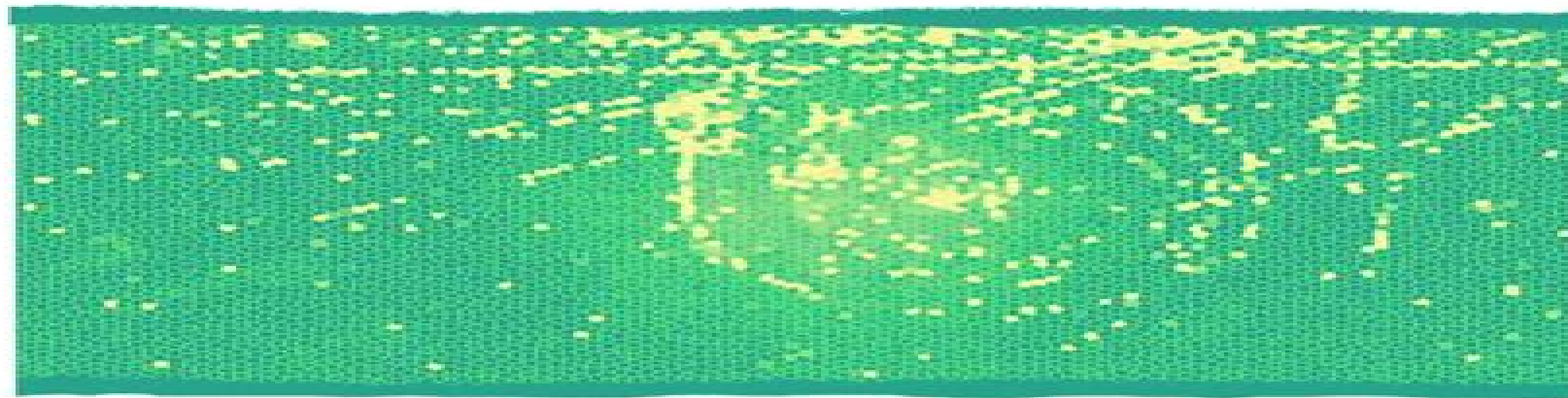




# Modeling Intraindividual Variability with Repeated Measures Data

*Methods and Applications*



Edited by

D. S. Moskowitz • Scott L. Hershberger

# Modeling Intraindividual Variability With Repeated Measures Data Methods And Applications

**Douglas A. Luke**

A decorative graphic consisting of a light blue horizontal bar with a rounded right end, and a red circular gradient shape partially visible behind it.

## **Modeling Intraindividual Variability With Repeated Measures Data Methods And Applications:**

**Modeling Intraindividual Variability With Repeated Measures Data** Scott L. Hershberger,D.S.

Moskowitz,2013-06-17 This book examines how individuals behave across time and to what degree that behavior changes fluctuates or remains stable It features the most current methods on modeling repeated measures data as reported by a distinguished group of experts in the field The goal is to make the latest techniques used to assess intraindividual variability accessible to a wide range of researchers Each chapter is written in a user friendly style such that even the novice data analyst can easily apply the techniques Each chapter features a minimum discussion of mathematical detail an empirical example applying the technique and a discussion of the software related to that technique Content highlights include analysis of mixed multi level structural equation and categorical data models It is ideal for researchers professionals and students working with repeated measures data from the social and behavioral sciences business or biological sciences *Modeling*

*Intraindividual Variability with Repeated Measures Data* Debbie S. Moskowitz,Scott L. Hershberger,2001-10 This book examines how individuals behave across time and to what degree that behavior changes fluctuates or remains stable It features the most current methods on modeling repeated measures data as reported by a distinguished group of experts in the field The goal is to make the latest techniques used to assess intraindividual variability accessible to a wide range of researchers Each chapter is written in a user friendly style such that even the novice data analyst can easily apply the techniques Each chapter features a minimum discussion of mathematical detail an empirical example applying the technique and a discussion of the software related to that technique Content highlights include analysis of mixed multi level structural equation and categorical data models It is ideal for researchers professionals and students working with repeated measures data from the social and behavioral sciences business or biological sciences **Modeling Intraindividual Variability**

**With Repeated Measures Data** Scott Hershberger,D. S. Moskowitz,2013 This book examines how individuals behave across time and to what degree that behavior changes fluctuates or remains stable It features the most current methods on modeling repeated measures data as reported by a distinguished group of experts in the field The goal is to make the latest techniques used to assess intraindividual variability accessible to a wide range of researchers Each chapter is written in a user friendly style such that even the novice data analyst can easily apply the techniques Each chapter features a minimum discussion of mathematical detail an empirical example applying the technique and a discussion of the software related to that technique Content highlights include analysis of mixed multi level structural equation and categorical data models It is ideal for researchers professionals and students working with repeated measures data from the social and behavioral sciences business or biological sciences *Measurement Theory and Practice in Kinesiology* Terry M. Wood,Weimo Zhu,2006 Provides readers with an understanding of the basics of measurement techniques in physical activity by focusing on understanding the concept behind techniques Looking at measurement issues in the physical domain this book is useful

for post graduate students researchers and professionals in sport and exercise science      Longitudinal Structural Equation Modeling Todd D. Little, 2024-01-02 This valuable book is now in a fully updated second edition that presents the latest developments in longitudinal structural equation modeling SEM and new chapters on missing data the random intercepts cross lagged panel model RI CLPM longitudinal mixture modeling and Bayesian SEM Emphasizing a decision making approach leading methodologist Todd D Little describes the steps of modeling a longitudinal change process He explains the big picture and technical how tos of using longitudinal confirmatory factor analysis longitudinal panel models and hybrid models for analyzing within person change User friendly features include equation boxes that translate all the elements in every equation tips on what does and doesn t work end of chapter glossaries and annotated suggestions for further reading The companion website provides data sets for the examples including studies of bullying and victimization adolescents emotions and healthy aging along with syntax and output chapter quizzes and the book s figures New to This Edition Chapter on missing data with a spotlight on planned missing data designs and the R based package PcAux Chapter on longitudinal mixture modeling with Whitney Moore Chapter on the random intercept cross lagged panel model RI CLPM with Danny Osborne Chapter on Bayesian SEM with Mauricio Garnier Revised throughout with new developments and discussions such as how to test models of experimental effects      **Structural Equation Modeling** Gregory R. Hancock, Ralph O. Mueller, 2006-01-01 This volume is intended to serve as a didactically oriented resource covering a broad range of advanced topics often not discussed in introductory courses on structural equation modeling SEM Such topics are important in furthering the understanding of foundations and assumptions underlying SEM as well as in exploring SEM as a potential tool to address new types of research questions that might not have arisen during a first course Chapters focus on the clear explanation and application of topics rather than on analytical derivations and contain syntax and partial output files from popular SEM software      **Longitudinal Data Analysis** Jason Newsom, Richard N. Jones, Scott M. Hofer, 2013-06-19 This book provides accessible treatment to state of the art approaches to analyzing longitudinal studies Comprehensive coverage of the most popular analysis tools allows readers to pick and choose the techniques that best fit their research The analyses are illustrated with examples from major longitudinal data sets including practical information about their content and design Illustrations from popular software packages offer tips on how to interpret the results Each chapter features suggested readings for additional study and a list of articles that further illustrate how to implement the analysis and report the results Syntax examples for several software packages for each of the chapter examples are provided at [www.psypress.com](http://www.psypress.com) longitudinal data analysis Although many of the examples address health or social science questions related to aging readers from other disciplines will find the analyses relevant to their work In addition to demonstrating statistical analysis of longitudinal data the book shows how to interpret and analyze the results within the context of the research design The methods covered in this book are applicable to a range of applied problems including short to long term longitudinal studies

using a range of sample sizes The book provides non technical practical introductions to the concepts and issues relevant to longitudinal analysis Topics include use of publicly available data sets weighting and adjusting for complex sampling designs with longitudinal studies missing data and attrition measurement issues related to longitudinal research the use of ANOVA and regression for average change over time mediation analysis growth curve models basic and advanced structural equation models and survival analysis An ideal supplement for graduate level courses on data analysis and or longitudinal modeling taught in psychology gerontology public health human development family studies medicine sociology social work and other behavioral social and health sciences this multidisciplinary book will also appeal to researchers in these fields **A Paul Meehl Reader**

Niels G. Waller, Leslie J. Yonce, William M. Grove, David Faust, Mark F. Lenzenweger, 2013-09-05 This new book introduces a new generation to the important insights of Paul Meehl In addition to selected papers from the classic reader Psychodiagnosis this book features new material selected from Meehl s most influential writings The resulting collection is a tour de force illustrating quantitative analysis of life science problems an examination of the inadequacy of some methods of analysis and a review of the application of taxometrics A Paul Meehl Reader is organized into five content areas theory building and appraisal how we discover and test the true causal relations of psychological constructs specific etiology an examination of genetic behavioral and environmental etiology in psychopathology diagnosis and prediction a review of the appropriate use of base rates taxometrics a look at Meehl s development of the method he invented thinking effectively about psychological questions a critique of correlation research and the power of quantitative thinking in psychology The Reader features section introductions to orient the reader and provide a context and structure for Paul Meehl s work The section on diagnosis and prediction features problem sets with solutions to guide the reader through practical applications of the principles described Accompanying downloadable resources contain footage from Paul Meehl s engaging seminar on clinical versus statistical prediction This book appeals to advanced students and professionals in psychology sociology law education human development and philosophy **Models for Intensive Longitudinal Data**

Theodore A. Walls, Joseph L. Schafer, 2006-01-19 Rapid technological advances in devices used for data collection have led to the emergence of a new class of longitudinal data intensive longitudinal data ILD Behavioral scientific studies now frequently utilize handheld computers beepers web interfaces and other technological tools for collecting many more data points over time than previously possible Other protocols such as those used in fMRI and monitoring of public safety also produce ILD hence the statistical models in this volume are applicable to a range of data The volume features state of the art statistical modeling strategies developed by leading statisticians and methodologists working on ILD in conjunction with behavioral scientists Chapters present applications from across the behavioral and health sciences including coverage of substantive topics such as stress smoking cessation alcohol use traffic patterns educational performance and intimacy Models for Intensive Longitudinal Data MILD is designed for those who want to learn about advanced statistical models for intensive

longitudinal data and for those with an interest in selecting and applying a given model The chapters highlight issues of general concern in modeling these kinds of data such as a focus on regulatory systems issues of curve registration variable frequency and spacing of measurements complex multivariate patterns of change and multiple independent series The extraordinary breadth of coverage makes this an indispensable reference for principal investigators designing new studies that will introduce ILD applied statisticians working on related models and methodologists graduate students and applied analysts working in a range of fields A companion Web site at [www.oup.com/us/MILD](http://www.oup.com/us/MILD) contains program examples and documentation

Multilevel Modeling of Educational Data Ann A. O'Connell, D. Betsy McCoach, 2008-04-01 sponsored by the Educational Statisticians SIG Multilevel Modeling of Educational Data co edited by Ann A O Connell Ed D and D Betsy McCoach Ph D is the next volume in the series Quantitative Methods in Education and the Behavioral Sciences Issues Research and Teaching Information Age Publishing sponsored by the Educational Statisticians Special Interest Group Ed Stat SIG of the American Educational Research Association The use of multilevel analyses to examine effects of groups or contexts on individual outcomes has burgeoned over the past few decades Multilevel modeling techniques allow educational researchers to more appropriately model data that occur within multiple hierarchies i e the classroom the school and or the district Examples of multilevel research problems involving schools include establishing trajectories of academic achievement for children within diverse classrooms or schools or studying school level characteristics on the incidence of bullying Multilevel models provide an improvement over traditional single level approaches to working with clustered or hierarchical data however multilevel data present complex and interesting methodological challenges for the applied education research community In keeping with the pedagogical focus for this book series the papers this volume emphasize applications of multilevel models using educational data with chapter topics ranging from basic to advanced This book represents a comprehensive and instructional resource text on multilevel modeling for quantitative researchers who plan to use multilevel techniques in their work as well as for professors and students of quantitative methods courses focusing on multilevel analysis Through the contributions of experienced researchers and teachers of multilevel modeling this volume provides an accessible and practical treatment of methods appropriate for use in a first and or second course in multilevel analysis A supporting website links chapter examples to actual data creating an opportunity for readers to reinforce their knowledge through hands on data analysis This book serves as a guide for designing multilevel studies and applying multilevel modeling techniques in educational and behavioral research thus contributing to a better understanding of and solution for the challenges posed by multilevel systems and data

Innovative Psychometric Modeling and Methods Hong Jiao, Robert W. Lissitz, 2020-09-01 The general theme of this book is to present innovative psychometric modeling and methods In particular this book includes research and successful examples of modeling techniques for new data sources from digital assessments such as eye tracking data hint uses and process data from game based assessments In addition

innovative psychometric modeling approaches such as graphical models item tree models network analysis and cognitive diagnostic models are included Chapters 1 2 4 and 6 are about psychometric models and methods for learning analytics The first two chapters focus on advanced cognitive diagnostic models for tracking learning and the improvement of attribute classification accuracy Chapter 4 demonstrates the use of network analysis for learning analytics Chapter 6 introduces the conjunctive root causes model for the understanding of prerequisite skills in learning Chapters 3 5 8 9 are about innovative psychometric techniques to model process data Specifically Chapters 3 and 5 illustrate the usage of generalized linear mixed effect models and item tree models to analyze eye tracking data Chapter 8 discusses the modeling approach of hint uses and response accuracy in learning environment Chapter 9 demonstrates the identification of observable outcomes in the game based assessments Chapters 7 and 10 introduce innovative latent variable modeling approaches including the graphical and generalized linear model approach and the dynamic modeling approach In summary the book includes theoretical methodological and applied research and practices that serve as the foundation for future development These chapters provide illustrations of efforts to model and analyze multiple data sources from digital assessments When computer based assessments are emerging and evolving it is important that researchers can expand and improve the methods for modeling and analyzing new data sources This book provides a useful resource to researchers who are interested in the development of psychometric methods to solve issues in this digital assessment age

**Conducting Meta-Analysis Using SAS** Winfred Arthur, Jr., Winston Bennett, Allen I. Huffcutt, 2001-06-01 Conducting Meta Analysis Using SAS reviews the meta analysis statistical procedure and shows the reader how to conduct one using SAS It presents and illustrates the use of the PROC MEANS procedure in SAS to perform the data computations called for by the two most commonly used meta analytic procedures the Hunter Schmidt and Glassian approaches This book serves as both an operational guide and user s manual by describing and explaining the meta analysis procedures and then presenting the appropriate SAS program code for computing the pertinent statistics The practical step by step instructions quickly prepare the reader to conduct a meta analysis Sample programs available on the Web further aid the reader in understanding the material Intended for researchers students instructors and practitioners interested in conducting a meta analysis the presentation of both formulas and their associated SAS program code keeps the reader and user in touch with technical aspects of the meta analysis process The book is also appropriate for advanced courses in meta analysis psychology education management and other applied social and health sciences departments

[Handbook of Developmental Systems Theory and Methodology](#) Peter C. M. Molenaar, Richard M. Lerner, Karl M. Newell, 2013-12-09 Developmental systems theory provides powerful tools for predicting complex dynamic interactions among biological and environmental processes in human behavior and health This groundbreaking handbook provides a roadmap for integrating key concepts of developmental systems theory such as self organization reciprocal dynamic interaction and probabilistic epigenesis and simulation models connectionist and agent

based models with advanced dynamic modeling approaches for testing these theories and models Internationally renowned developmental science scholars present innovations in research design measurement and analysis that offer new means of generating evidence based decisions to optimize the course of health and positive functioning across the life span Topics include epigenetic development and evolution the relationship between neural systems growth and psychological development the role of family environments in shaping children s cognitive skills and associated adult outcomes and more

*Behavioral Intervention Research* Laura N. Gitlin, Sara Czaja, Sara J. Czaja, 2015-12-07 I applaud this book for providing a much needed overview of the entire behavioral intervention pipeline It fills a unique niche in its coverage of key theoretical and methodological aspects as well as its case examples and professional development considerations which makes the content accessible and practical for a broad audience Marcia Ory PhD From the Foreword This unique text provides comprehensive coverage of one of the most neglected yet vitally important areas of public health research developing evaluating and implementing novel behavioral interventions in service and practice settings Written for Masters and Doctoral level courses as well as novice and expert researchers in this area the book examines the most critical issues surrounding this form of research in order to maximize the ability of intervention researchers to successfully implement current and future evidence based protocols in practice settings Expert contributors embrace key challenges the complexities of health care delivery disease management and prevention rising costs and changing population demographics in shaping the push toward advancing more efficient and effective behavioral interventions and methodologies Tackling numerous topics that have been neglected in traditional randomized trial handbooks methodology texts and books on dissemination and implementation science the book addresses ways to develop and advance an intervention emerging hybrid trial designs theories and new models for integrating behavioral interventions with implementation science recruitment and retention strategies for inclusion of diverse samples research designs for different stages of intervention development treatment fidelity models and measures novel measurement and analytic strategies cost analyses selection of control groups use of mixed methodology ethics and informed consent technology based intervention approaches professional considerations Abundant case examples from successful behavioral intervention trials both national and international illustrate key concepts Key Features Includes examples of a wide range of interventions including individuals across the life span and of diverse communities and health systems Replete with case examples from successful behavioral intervention trials Presents the challenges of and strategies for advancing behavioral interventions for immediate use in practice Written by world recognized expert authors and contributors Provides novel coverage of a great variety of important but previously neglected topics Intensive Longitudinal Analysis of Human Processes Kathleen M. Gates, Sy-Miin Chow, Peter C. M.

Molenaar, 2023-01-31 This book focuses on a span of statistical topics relevant to researchers who seek to conduct person specific analysis of human data Our purpose is to provide one consolidated resource that includes techniques from disciplines



such as engineering physics statistics and quantitative psychology and outlines their application to data often seen in human research The book balances mathematical concepts with information needed for using these statistical approaches in applied settings such as interpretative caveats and issues to consider when selecting an approach The statistical topics covered here include foundational material as well as state of the art methods These analytic approaches can be applied to a range of data types such as psychophysiological self report and passively collected measures such as those obtained from smartphones We provide examples using varied data sources including functional MRI fMRI daily diary and ecological momentary assessment data Features Description of time series measurement model building and network methods for person specific analysis Discussion of the statistical methods in the context of human research Empirical and simulated data examples used throughout the book R code for analyses and recorded lectures for each chapter available at the book website <https://www.personspecific.com> Across various disciplines of human study researchers are increasingly seeking to conduct person specific analysis This book provides comprehensive information so no prior knowledge of these methods is required We aim to reach active researchers who already have some understanding of basic statistical testing Our book provides a comprehensive resource for those who are just beginning to learn about person specific analysis as well as those who already conduct such analysis but seek to further deepen their knowledge and learn new tools

*Current Topics in the Theory and Application of Latent Variable Models* Michael Charles Edwards, Robert C. MacCallum, 2013 First Published in 2013 Routledge is an imprint of Taylor Francis an informa company

**Multilevel Modeling** Douglas A. Luke, 2019-12-13 Multilevel Modeling is a concise practical guide to building models for multilevel and longitudinal data Author Douglas A Luke begins by providing a rationale for multilevel models outlines the basic approach to estimating and evaluating a two level model discusses the major extensions to mixed effects models and provides advice for where to go for instruction in more advanced techniques Rich with examples the Second Edition expands coverage of longitudinal methods diagnostic procedures models of counts Poisson power analysis cross classified models and adds a new section added on presenting modeling results A website for the book includes the data and the statistical code both R and Stata used for all of the presented analyses

**The SAGE Sourcebook of Advanced Data Analysis Methods for Communication Research** Andrew F. Hayes, Michael D. Slater, Leslie B. Snyder, 2008 A must have volume for every communication researcher's library The SAGE Sourcebook of Advanced Data Analysis Methods for Communication Research provides an introductory treatment of various advanced statistical methods applied to research in the field of communication Written by authors who use these methods in their own research each chapter gives a non technical overview of what the method is and how it can be used to answer communication related questions or aide the researcher dealing with difficult data problems Students and faculty interested in diving into a new statistical topic such as latent growth modeling multilevel modeling propensity scoring or time series analysis will find each chapter an excellent springboard for acquiring the background needed to jump into more advanced technical readings

**The Cambridge Handbook of Environment in Human Development** Linda Mayes, Michael Lewis, 2012-08-27 This volume takes the child's environment culture education family peers and media as an essential component of child development

*Longitudinal Research with Latent Variables* Kees van Montfort, Johan H.L. Oud, Albert Satorra, 2010-05-17 Since Charles Spearman published his seminal paper on factor analysis in 1904 and Karl Joreskog replaced the observed variables in an econometric structural equation model by latent factors in 1970 causal modelling by means of latent variables has become the standard in the social and behavioural sciences Indeed the central variables that social and behavioural theories deal with can hardly ever be identified as observed variables Statistical modelling has to take account of measurement errors and invalidities in the observed variables and so address the underlying latent variables Moreover during the past decades it has been widely agreed on that serious causal modelling should be based on longitudinal data It is especially in the field of longitudinal research and analysis including panel research that progress has been made in recent years Many comprehensive panel data sets as for example on human development and voting behaviour have become available for analysis The number of publications based on longitudinal data has increased immensely Papers with causal claims based on cross sectional data only experience rejection just for that reason

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