

# Longitudinal Data Analysis

## *Designs, Models and Methods*

Carsten G.J.H. Bijleveld & Leo J. Th. van der Kamp  
with Ab Mooijart, Willem A. van der Kloot,  
Rien van der Leeden & Eeke van der Burg

# Longitudinal Data Analysis Designs Models And Methods

**Steven M Boker, Michael J. Wenger**



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**Longitudinal Data Analysis** Professor Catrien C J H C J H Bijleveld, Leo J. Th. van der Kamp, Professor Leo J Th Van Der Kamp, Ab Mooijaart, Dr Willem A Van Der Van Der Kloot, Dr Rien Van Der Leeden, Eeke Van Der Burg, 1998-10-26 By looking at the processes of change over time by carrying out longitudinal studies researchers answer questions about learning development educational growth social change and medical outcomes However longitudinal research has many faces This book examines all the main approaches as well as newer developments such as structural equation modelling multilevel modelling and optimal scaling to enable the reader to gain a thorough understanding of the approach and make appropriate decisions about which technique can be applied to the research problem Conceptual explanations are used to keep technical terms to a minimum examples are provided for each approach issues of design measurement and significance are considered and a standard notation is used throughout

**Longitudinal Data Analysis** Catrien C J H Bijleveld, Leo van der Kamp, Ab Mooijaart, Willem A van der Kloot, Rien van der Leeden, Eeke Van Der Burg, 1999-03-01 By looking at the processes of change over time by carrying out longitudinal studies researchers answer questions about learning development educational growth social change and medical outcomes However longitudinal research has many faces This book examines all the main approaches as well as newer developments such as structural equation modelling multilevel modelling and optimal scaling to enable the reader to gain a thorough understanding of the approach and make appropriate decisions about which technique can be applied to the research problem Conceptual explanations are used to keep technical terms to a minimum examples are provided for each approach issues of design measurement and significance are co Longitudinal Data Analysis Garrett Fitzmaurice, Marie Davidian, Geert Verbeke, Geert Molenberghs, 2008-08-11 Although many books currently available describe statistical models and methods for analyzing longitudinal data they do not highlight connections between various research threads in the statistical literature Responding to this void Longitudinal Data Analysis provides a clear comprehensive and unified overview of state of the art theory Intensive Longitudinal Methods Niall Bolger, Jean-Philippe

Laurenceau, 2013-01-22 This book offers a complete practical guide to doing an intensive longitudinal study with individuals dyads or groups It provides the tools for studying social psychological and physiological processes in everyday contexts using methods such as diary and experience sampling A range of engaging worked through research examples with datasets are featured Coverage includes how to select the best intensive longitudinal design for a particular research question apply multilevel models to within subject designs model within subject change processes for continuous and categorical outcomes assess the reliability of within subject changes assure sufficient statistical power and more Several end of chapter write ups illustrate effective ways to present study findings for publication Datasets and output in SPSS SAS Mplus HLM MLwiN and R for the examples are available on the companion website [www.intensivelongitudinal.com](http://www.intensivelongitudinal.com) **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/longitudinal-data-analysis](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

[Experimental Design and Data Analysis for Biologists](#)  
Gerald Peter Quinn, Michael J. Keough, 2002-03-21 An essential textbook for any student or researcher in biology needing to design experiments sample programs or analyse the resulting data The text begins with a revision of estimation and hypothesis testing methods covering both classical and Bayesian philosophies before advancing to the analysis of linear and generalized linear models Topics covered include linear and logistic regression simple and complex ANOVA models for factorial nested block split plot and repeated measures and covariance designs and log linear models Multivariate techniques including classification and ordination are then introduced Special emphasis is placed on checking assumptions exploratory data analysis and presentation of results The main analyses are illustrated with many examples from published papers and there is an extensive reference list to both the statistical and biological literature The book is supported by a website that provides all data sets questions for each chapter and links to software

[Data Analytic Techniques for Dynamical Systems](#)  
Steven M Boker, Michael J. Wenger, 2012-10-12 Each volume in the Notre Dame Series on Quantitative Methodology features leading methodologists and substantive experts who provide instruction on innovative techniques designed to enhance quantitative skills in a substantive area This latest volume focuses on the methodological issues and analyses pertinent to understanding psychological data from a dynamical system perspective Dynamical systems analysis DSA is increasingly used

to demonstrate time dependent variable change It is used more and more to analyze a variety of psychological phenomena such as relationships development and aging emotional regulation and perceptual processes The book opens with the best occasions for using DSA methods The final two chapters focus on the application of dynamical systems methods to problems in psychology such as substance use and gestural dynamics In addition it reviews how and when to use time series models from a discrete time perspective stochastic differential equations in continuous time estimating continuous time differential equation models multilevel models of differential equations to estimate within person dynamics and the corresponding population means new SEM models for dynamical systems data Data Analytic Techniques for Dynamical Systems is beneficial to advanced students and researchers in the areas of developmental psychology family studies language processes cognitive neuroscience social and personality psychology medicine and emotion Due to the book s instructive nature it serves as an excellent text for advanced courses on this particular technique

*Quantitative Longitudinal Data Analysis* Vernon Gayle, Paul Lambert, 2020-12-10 First published Open Access under a Creative Commons license as What is Quantitative Longitudinal Data Analysis this title is now also available as part of the Bloomsbury Research Methods series Across the social sciences there is widespread agreement that quantitative longitudinal research designs offer analysts powerful scientific data resources But to date many texts on analysing longitudinal social analysis surveys have been written from a statistical rather than a social science data analysis perspective and they lack adequate coverage of common practical challenges associated with social science data analyses This book provides a practical and up to date introduction to influential approaches to quantitative longitudinal data analysis in the social sciences The book introduces definitions and terms explains the relative attractions of such a longitudinal design and offers an introduction to the main techniques of analysis explaining their requirements statistical properties and their substantive contribution

**Advances in Latent Variable Mixture Models** Gregory R. Hancock, Karen M. Samuelsen, 2007-11-01 The current volume Advances in Latent Variable Mixture Models contains chapters by all of the speakers who participated in the 2006 CILVR conference providing not just a snapshot of the event but more importantly chronicling the state of the art in latent variable mixture model research The volume starts with an overview chapter by the CILVR conference keynote speaker Bengt Muthén offering a lay of the land for latent variable mixture models before the volume moves to more specific constellations of topics Part I Multilevel and Longitudinal Systems deals with mixtures for data that are hierarchical in nature either due to the data s sampling structure or to the repetition of measures of varied types over time Part II Models for Assessment and Diagnosis addresses scenarios for making judgments about individuals state of knowledge or development and about the instruments used for making such judgments Finally Part III Challenges in Model Evaluation focuses on some of the methodological issues associated with the selection of models most accurately representing the processes and populations under investigation It should be stated that this volume is not intended to be a first exposure to latent variable methods Readers

lacking such foundational knowledge are encouraged to consult primary and or secondary didactic resources in order to get the most from the chapters in this volume Once armed with the basic understanding of latent variable methods we believe readers will find this volume incredibly exciting      The Cambridge Encyclopedia of Child Development Brian Hopkins,Elena Geangu,Sally Linkenauger,2017-10-19 Updated and expanded to 124 entries The Cambridge Encyclopedia of Child Development remains the authoritative reference in the field      *Handbook of Emergent Methods* Sharlene Nagy Hesse-Biber,Patricia Leavy,2013-10-15 Social researchers increasingly find themselves looking beyond conventional methods to address complex research questions This is the first book to comprehensively examine emergent qualitative and quantitative theories and methods across the social and behavioral sciences Providing scholars and students with a way to retool their research choices the volume presents cutting edge approaches to data collection analysis and representation Leading researchers describe alternative uses of traditional quantitative and qualitative tools innovative hybrid or mixed methods and new techniques facilitated by technological advances Consistently formatted chapters explore the strengths and limitations of each method for studying different types of research questions and offer practical in depth examples

**Handbook of Statistical Methods for Case-Control Studies** Ørnulf Borgan,Norman Breslow,Nilanjan Chatterjee,Mitchell H. Gail,Alastair Scott,Chris J. Wild,2018-06-27 Handbook of Statistical Methods for Case Control Studies is written by leading researchers in the field It provides an in depth treatment of up to date and currently developing statistical methods for the design and analysis of case control studies as well as a review of classical principles and methods The handbook is designed to serve as a reference text for biostatisticians and quantitatively oriented epidemiologists who are working on the design and analysis of case control studies or on related statistical methods research Though not specifically intended as a textbook it may also be used as a backup reference text for graduate level courses Book Sections Classical designs and causal inference measurement error power and small sample inference Designs that use full cohort information Time to event data Genetic epidemiology About the Editors rnulf Borgan is Professor of Statistics University of Oslo His book with Andersen Gill and Keiding on counting processes in survival analysis is a world classic Norman E Breslow was at the time of his death Professor Emeritus in Biostatistics University of Washington For decades his book with Nick Day has been the authoritative text on case control methodology Nilanjan Chatterjee is Bloomberg Distinguished Professor Johns Hopkins University He leads a broad research program in statistical methods for modern large scale biomedical studies Mitchell H Gail is a Senior Investigator at the National Cancer Institute His research includes modeling absolute risk of disease intervention trials and statistical methods for epidemiology Alastair Scott was at the time of his death Professor Emeritus of Statistics University of Auckland He was a major contributor to using survey sampling methods for analyzing case control data Chris J Wild is Professor of Statistics University of Auckland His research includes nonlinear regression and methods for fitting models to response selective data      Structural Equation Modeling David Kaplan,2008-07-23 Using detailed empirical

examples Structural Equation Modeling Second Edition presents a thorough and sophisticated treatment of the foundations of structural equation modeling SEM It also demonstrates how SEM can provide a unique lens on the problems social and behavioral scientists face Intended Audience While the book assumes some knowledge and background in statistics it guides readers through the foundations and critical assumptions of SEM in an easy to understand manner **Designing**

**Experiments and Analyzing Data** Scott E. Maxwell, Harold D. Delaney, 2003-10-17 Through this book's unique model comparison approach students and researchers are introduced to a set of fundamental principles for analyzing data After seeing how these principles can be applied in simple designs students are shown how these same principles also apply in more complicated designs Drs Maxwell and Delaney believe that the model comparison approach better prepares students to understand the logic behind a general strategy of data analysis appropriate for various designs and builds a stronger foundation which allows for the introduction of more complex topics omitted from other books Several learning tools further strengthen the reader's understanding flowcharts assist in choosing the most appropriate technique an equation cross referencing system aids in locating the initial detailed definition and numerous summary equation tables assist readers in understanding differences between different methods for analyzing their data examples based on actual research in a variety of behavioral sciences help students see the applications of the material numerous exercises help develop a deeper understanding of the subject Detailed solutions are provided for some of the exercises and realistic data sets allow the reader to see an analysis of data from each design in its entirety Updated throughout the second edition features significantly increased attention to measures of effects including confidence intervals strength of association and effect size estimation for complex and simple designs an increased use of statistical packages and the graphical presentation of data new chapters 15 the current controversies regarding statistical reasoning such as the latest debates on hypothesis testing ch 2 a new preview of the experimental designs covered in the book ch 2 a CD with SPSS and SAS data sets for many of the text exercises as well as tutorials reviewing basic statistics and regression and a Web site containing examples of SPSS and SAS syntax for analyzing many of the text exercises Appropriate for advanced courses on experimental design or analysis applied statistics or analysis of variance taught in departments of psychology education statistics business and other social sciences the book is also ideal for practicing researchers in these disciplines A prerequisite of undergraduate statistics is assumed An Instructor's Solutions Manual is available to those who adopt the book for classroom use **Routledge International**

**Handbook of Advanced Quantitative Methods in Nursing Research** Susan J. Henly, 2015-07-24 Designed to support global development of nursing science the Routledge International Handbook of Advanced Quantitative Methods in Nursing Research provides a new comprehensive and authoritative treatment of advanced quantitative methods for nursing research Incorporating past approaches that have served as the foundation for the science this cutting edge book also explores emerging approaches that will shape its future Divided into six parts it covers the domain of nursing science measurement

classical test theory IRT clinimetrics behavioral observation biophysical measurement models for prediction and explanation SEM general growth mixture models hierarchical models analysis of dynamic systems intervention research theory based interventions causality third variables pilot studies quasi experimental design joint models for longitudinal data and time to event e science DIKW paradigm big data data mining omics FMRI special topics comparative effectiveness and meta analysis patient safety economics research in nursing mixed methods global research dissemination Written by a distinguished group of international nursing scientists scientists from related fields and methodologists the Handbook is the ideal reference for everyone involved in nursing science whether they are graduate students academics editors and reviewers or clinical investigators

**Advances in Data Mining: Applications and Theoretical Aspects** Petra Perner, 2010-06-27 These are the proceedings of the tenth event of the Industrial Conference on Data Mining ICDM held in Berlin [www data mining forum de](http://www.data-mining-forum.de) For this edition the Program Committee received 175 submissions After the peer review process we accepted 49 high quality papers for oral presentation that are included in this book The topics range from theoretical aspects of data mining to applications of data mining such as on multimedia data in marketing finance and telecommunication in medicine and agriculture and in process control industry and society Extended versions of selected papers will appear in the international journal *Transactions on Machine Learning and Data Mining* [www ibai publishing org journal mldm](http://www.ibai-publishing.org/journal/mldm) Ten papers were selected for poster presentations and are published in the ICDM Poster Proceeding Volume by ibai publishing [www ibai publishing org](http://www.ibai-publishing.org) In conjunction with ICDM four workshops were held on special hot application oriented topics in data mining Data Mining in Marketing DMM Data Mining in LifeScience DMLS the Workshop on Case Based Reasoning for Multimedia Data CBR MD and the Workshop on Data Mining in Agriculture DMA The Workshop on Data Mining in Agriculture ran for the first time this year All workshop papers will be published in the workshop proceedings by ibai publishing [www ibai publishing org](http://www.ibai-publishing.org) Selected papers of CBR MD will be published in a special issue of the international journal *Transactions on Case Based Reasoning* [www ibai publishing org journal cbr](http://www.ibai-publishing.org/journal/cbr)

***Latent Growth Curve Modeling*** Kristopher J. Preacher, Aaron L. Wichman, Robert C. MacCallum, Nancy E. Briggs, 2008-06-27 Latent growth curve modeling LGM a special case of confirmatory factor analysis designed to model change over time is an indispensable and increasingly ubiquitous approach for modeling longitudinal data This volume introduces LGM techniques to researchers provides easy to follow didactic examples of several common growth modeling approaches and highlights recent advancements regarding the treatment of missing data parameter estimation and model fit The book covers the basic linear LGM and builds from there to describe more complex functional forms e g polynomial latent curves multivariate latent growth curves used to model simultaneous change in multiple variables the inclusion of time varying covariates predictors of aspects of change cohort sequential designs and multiple group models The authors also highlight approaches to dealing with missing data different estimation methods and incorporate discussion of model evaluation and comparison within the context of LGM The models demonstrate how they may be applied to

longitudinal data derived from the NICHD Study of Early Child Care and Youth Development SECCYD Key Features Provides easy to follow didactic examples of several common growth modeling approaches Highlights recent advancements regarding the treatment of missing data parameter estimation and model fit Explains the commonalities and differences between latent growth model and multilevel modeling of repeated measures data Covers the basic linear latent growth model and builds from there to describe more complex functional forms such as polynomial latent curves multivariate latent growth curves time varying covariates predictors of aspects of change cohort sequential designs and multiple group models      *Secondary Statistical Modeling with the National Assessment of Adult Literacy* David Kaplan, 2000 This paper offers recommendations to the National Center for Education Statistics NCES on the development of the background questionnaire for the National Assessment of Adult Literacy NAAL The recommendations are from the viewpoint of a researcher interested in applying sophisticated statistical models to address important issues in adult literacy The paper focuses on five issues each of which is the subject of a section of the paper sampling selection bias measurement policy modeling and gauging cohort effects Each section considers the scope of the issue and then makes recommendations to NCES These recommendations include providing all appropriate sampling weights in NAAL data examining contextual effects on the distribution of literacy ability in the population considering relevant auxiliary variables that would constitute the selection equation considering the hypothesized number of factors and including at least four variables measuring each factor in the questionnaire obtaining retrospective data on general and job specific literacy related activities and exploring the possibility of linking NAAL with existing longitudinal surveys Contains 21 references YLB      **Applied Multiway Data Analysis** Pieter M. Kroonenberg, 2008-03-11 From a preeminent authority a modern and applied treatment of multiway data analysis This groundbreaking book is the first of its kind to present methods for analyzing multiway data by applying multiway component techniques Multiway analysis is a specialized branch of the larger field of multivariate statistics that extends the standard methods for two way data such as component analysis factor analysis cluster analysis correspondence analysis and multidimensional scaling to multiway data Applied Multiway Data Analysis presents a unique thorough and authoritative treatment of this relatively new and emerging approach to data analysis that is applicable across a range of fields from the social and behavioral sciences to agriculture environmental sciences and chemistry General introductions to multiway data types methods and estimation procedures are provided in addition to detailed explanations and advice for readers who would like to learn more about applying multiway methods Using carefully laid out examples and engaging applications the book begins with an introductory chapter that serves as a general overview of multiway analysis including the types of problems it can address Next the process of setting up carrying out and evaluating multiway analyses is discussed along with commonly encountered issues such as preprocessing missing data model and dimensionality selection postprocessing and transformation as well as robustness and stability issues Extensive examples are presented within a unified framework

consisting of a five step structure objectives data description and design model and dimensionality selection results and their interpretation and validation Procedures featured in the book are conducted using 3WayPack which is software developed by the author and analyses can also be carried out within the R and MATLAB systems Several data sets and 3WayPack can be downloaded via the book s related Web site The author presents the material in a clear accessible style without unnecessary or complex formalism assuring a smooth transition from well known standard two analysis to multiway analysis for readers from a wide range of backgrounds An understanding of linear algebra statistics and principal component analyses and related techniques is assumed though the author makes an effort to keep the presentation at a conceptual rather than mathematical level wherever possible Applied Multiway Data Analysis is an excellent supplement for component analysis and statistical multivariate analysis courses at the upper undergraduate and beginning graduate levels The book can also serve as a primary reference for statisticians data analysts methodologists applied mathematicians and social science researchers working in academia or industry Visit the Related Website <http://three-mode.leidenuniv.nl> to view data from the book

Advising on Research Methods Hermanus Johannes Adèr,2008

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