



# Longitudinal Data Analysis

**Xian Liu**



## **Longitudinal Data Analysis:**

**Applied Longitudinal Data Analysis** Judith D. Singer, John B. Willett, 2003-03-27 Change is constant in everyday life. Infants crawl and then walk, children learn to read and write, teenagers mature in myriad ways, the elderly become frail and forgetful. Beyond these natural processes and events, external forces and interventions instigate and disrupt change: test scores may rise after a coaching course, drug abusers may remain abstinent after residential treatment. By charting changes over time and investigating whether and when events occur, researchers reveal the temporal rhythms of our lives. **Applied Longitudinal Data Analysis** is a much needed professional book for empirical researchers and graduate students in the behavioral, social, and biomedical sciences. It offers the first accessible in-depth presentation of two of today's most popular statistical methods: multilevel models for individual change and hazard survival models for event occurrence in both discrete and continuous time. Using clear, concise prose and real data sets from published studies, the authors take you step by step through complete analyses, from simple exploratory displays that reveal underlying patterns through sophisticated specifications of complex statistical models. **Applied Longitudinal Data Analysis** offers readers a private consultation session with internationally recognized experts and represents a unique contribution to the literature on quantitative empirical methods. Visit <http://www.ats.ucla.edu/stat/examples/alda.htm> for downloadable data sets, library of computer programs in SAS, SPSS, Stata, HLM, MLwiN, and more. Additional material for data analysis.

**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.

**Analysis of Longitudinal Data** Peter Diggle, Patrick Heagerty, Kung-Yee Liang, Scott Zeger, 2013-03-14 The first edition of **Analysis for Longitudinal Data** has become a classic. Describing the statistical models and methods for the analysis of longitudinal data, it covers both the underlying statistical theory of each method and its application to a range of examples from the agricultural and biomedical sciences. The main topics discussed are design issues, exploratory methods of analysis, linear models for continuous data, general linear models for discrete data, and models and methods for handling data and missing values. Under each heading, worked examples are presented in parallel with the methodological development, and sufficient detail is given

to enable the reader to reproduce the author's results using the data sets as an appendix This second edition published for the first time in paperback provides a thorough and expanded revision of this important text It includes two new chapters the first discusses fully parametric models for discrete repeated measures data and the second explores statistical models for time dependent predictors      *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

*Applied Longitudinal Data Analysis for Medical Science* Jos W. R. Twisk, 2023-04-27 Essential for non statisticians and researchers working with longitudinal data from medical studies this updated new edition discusses the most important techniques available for analysing data of this type Using non technical language the book explores simple methods such as the paired t test and summary statistics as well as more sophisticated regression based methods including mixed model analysis The emphasis of the discussion lies in the interpretation of the results of these different methods covering data analysis with continuous dichotomous categorical and other outcome variables Datasets used throughout the book are provided enabling readers to re analyse the examples as they make their way through chapters and improve their understanding of the material Finally an extensive and practical overview of and comparison between different software packages is provided Readers will be able to use this book as a practical manual in their everyday work without needing a strong background in statistics      **Applied Longitudinal Analysis** Garrett M. Fitzmaurice, Nan M. Laird, James H. Ware, 2012-10-23 Praise for the First Edition this book should be on the shelf of everyone interested in longitudinal data analysis Journal of the American Statistical Association Features newly developed topics and applications of the analysis of longitudinal data *Applied Longitudinal Analysis* Second Edition presents modern methods for analyzing data from longitudinal studies and now features the latest state of the art techniques The book emphasizes practical rather than theoretical aspects of methods for the analysis of diverse types of longitudinal data that can be applied across various fields of study from the health and medical sciences to the social and behavioral sciences The authors incorporate their extensive academic and research experience along with various updates that have been made in response to reader feedback The Second Edition features six newly added chapters that explore topics currently evolving in the field including Fixed effects and mixed effects models Marginal models and generalized estimating equations Approximate methods for generalized linear mixed effects models Multiple imputation and inverse probability weighted methods Smoothing methods for longitudinal data Sample size and power Each chapter presents methods in the setting of applications to data sets drawn from the health sciences New problem sets have been added to many chapters and a related website features sample programs and computer output using SAS Stata and R as well as data sets and supplemental slides to facilitate a complete understanding of

the material With its strong emphasis on multidisciplinary applications and the interpretation of results **Applied Longitudinal Analysis Second Edition** is an excellent book for courses on statistics in the health and medical sciences at the upper undergraduate and graduate levels The book also serves as a valuable reference for researchers and professionals in the medical public health and pharmaceutical fields as well as those in social and behavioral sciences who would like to learn more about analyzing longitudinal data **Applied Longitudinal Data Analysis for Epidemiology** Jos W. R.

Twisk,2013-05-09 A practical guide to the most important techniques available for longitudinal data analysis essential for non statisticians and researchers 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

Longitudinal Data Analysis Toon Taris,2000-11-13 Toon Taris survival guide takes the reader through the strengths and weaknesses of longitudinal research making clear how to design a longitudinal study how to collect data most effectively and how to interpret results **Longitudinal Data Analysis** Donald Hedeker,Robert D. Gibbons,2006-05-12 Longitudinal data analysis for biomedical and behavioral sciences This innovative book sets forth and describes methods for the analysis of longitudinal data emphasizing applications to problems in the biomedical and behavioral sciences Reflecting the growing importance and use of longitudinal data across many areas of research the text is designed to help users of statistics better

analyze and understand this type of data Much of the material from the book grew out of a course taught by Dr Hedeker on longitudinal data analysis The material is therefore thoroughly classroom tested and includes a number of features designed to help readers better understand and apply the material Statistical procedures featured within the text include Repeated measures analysis of variance Multivariate analysis of variance for repeated measures Random effects regression models RRM Covariance pattern models Generalized estimating equations GEE models Generalizations of RRM and GEE for categorical outcomes Practical in their approach the authors emphasize the applications of the methods using real world examples for illustration Some syntax examples are provided although the authors do not generally focus on software in this book Several datasets and computer syntax examples are posted on this title's companion Web site The authors intend to keep the syntax examples current as new versions of the software programs emerge This text is designed for both undergraduate and graduate courses in longitudinal data analysis Instructors can take advantage of overheads and additional course materials available online for adopters Applied statisticians in biomedicine and the social sciences can also use the book as a convenient reference

Modeling Longitudinal Data Robert E. Weiss, 2005-06-28 The book features many figures and tables illustrating longitudinal data and numerous homework problems The associated web site contains many longitudinal data sets examples of computer code and labs to reinforce the material Weiss emphasizes continuous data rather than discrete data graphical and covariance methods and generalizations of regression rather than generalizations of analysis of variance

**Methods and Applications of Longitudinal Data Analysis** Xian Liu, 2015-09-01 Methods and Applications of Longitudinal Data Analysis describes methods for the analysis of longitudinal data in the medical biological and behavioral sciences It introduces basic concepts and functions including a variety of regression models and their practical applications across many areas of research Statistical procedures featured within the text include descriptive methods for delineating trends over time linear mixed regression models with both fixed and random effects covariance pattern models on correlated errors generalized estimating equations nonlinear regression models for categorical repeated measurements techniques for analyzing longitudinal data with non ignorable missing observations Emphasis is given to applications of these methods using substantial empirical illustrations designed to help users of statistics better analyze and understand longitudinal data Methods and Applications of Longitudinal Data Analysis equips both graduate students and professionals to confidently apply longitudinal data analysis to their particular discipline It also provides a valuable reference source for applied statisticians demographers and other quantitative methodologists From novice to professional this book starts with the introduction of basic models and ends with the description of some of the most advanced models in longitudinal data analysis Enables students to select the correct statistical methods to apply to their longitudinal data and avoid the pitfalls associated with incorrect selection Identifies the limitations of classical repeated measures models and describes newly developed techniques along with real world examples

Models for Intensive Longitudinal Data Theodore

A. Walls, Joseph L. Schafer, 2006-01-19 A new class of longitudinal data has emerged with the use of technological devices for scientific data collection This class of data is called intensive longitudinal data ILD This volume features state of the art applied statistical modeling strategies developed by leading statisticians and methodologists working in conjunction with behavioral scientists 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 **What is Quantitative Longitudinal Data Analysis?** Vernon Gayle, Paul Lambert, 2020 *Practical Longitudinal Data Analysis* David J. Hand, Martin J. Crowder, 2017-10-06 This text describes regression based approaches to analyzing longitudinal and repeated measures data It emphasizes statistical models discusses the relationships between different approaches and uses real data to illustrate practical applications It uses commercially available software when it exists and illustrates the program code and output The data appendix provides many real data sets beyond those used for the examples which can serve as the basis for exercises **What is Quantitative Longitudinal Data Analysis?** Vernon Gayle, Paul Lambert (Lecturer), 2017 Across the social sciences there is widespread agreement that quantitative longitudinal research designs offer analysts powerful scientific data resources But to date most texts on social survey analysis have been written from a statistical rather than a social science data analysis perspective and they lack adequate coverage of common practical challenges This book aims to provide a practical and up to date introduction to influential approaches to quantitative longitudinal data analysis in the social sciences The book will discuss definitions and terms explain the relative attractions of such a design and enumerate in an accessible way the main techniques of analysis explaining their requirements statistical properties and their substantive contribution The book is designed for postgraduates and researchers across the social sciences considering the use of quantitative longitudinal data resources in their research It will also be an excellent text for undergraduate and postgraduate courses on advanced quantitative methods Bloomsbury Publishing Longitudinal Data Analysis for the Behavioral Sciences Using R Jeffrey D. Long, 2012 This book is a practical guide for the analysis of longitudinal behavioural data Longitudinal data consist of repeated measures collected on the same subjects over time **Longitudinal Categorical Data Analysis** Brajendra C. Sutradhar, 2014-10-30 This is the first book in longitudinal categorical data analysis with parametric correlation

models developed based on dynamic relationships among repeated categorical responses This book is a natural generalization of the longitudinal binary data analysis to the multinomial data setup with more than two categories Thus unlike the existing books on cross sectional categorical data analysis using log linear models this book uses multinomial probability models both in cross sectional and longitudinal setups A theoretical foundation is provided for the analysis of univariate multinomial responses by developing models systematically for the cases with no covariates as well as categorical covariates both in cross sectional and longitudinal setups In the longitudinal setup both stationary and non stationary covariates are considered These models have also been extended to the bivariate multinomial setup along with suitable covariates For the inferences the book uses the generalized quasi likelihood as well as the exact likelihood approaches The book is technically rigorous and it also presents illustrations of the statistical analysis of various real life data involving univariate multinomial responses both in cross sectional and longitudinal setups This book is written mainly for the graduate students and researchers in statistics and social sciences among other applied statistics research areas However the rest of the book specifically the chapters from 1 to 3 may also be used for a senior undergraduate course in statistics

Longitudinal Data Analysis Ikuko Funatogawa, Takashi Funatogawa, 2019-02-04 This book provides a new analytical approach for dynamic data repeatedly measured from multiple subjects over time Random effects account for differences across subjects Auto regression in response itself is often used in time series analysis In longitudinal data analysis a static mixed effects model is changed into a dynamic one by the introduction of the auto regression term Response levels in this model gradually move toward an asymptote or equilibrium which depends on covariates and random effects The book provides relationships of the autoregressive linear mixed effects models with linear mixed effects models marginal models transition models nonlinear mixed effects models growth curves differential equations and state space representation State space representation with a modified Kalman filter provides log likelihoods for maximum likelihood estimation and this representation is suitable for unequally spaced longitudinal data The extension to multivariate longitudinal data analysis is also provided Topics in medical fields such as response dependent dose modifications response dependent dropouts and randomized controlled trials are discussed The text is written in plain terms understandable for researchers in other disciplines such as econometrics sociology and ecology for the progress of interdisciplinary research

## Decoding **Longitudinal Data Analysis**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Longitudinal Data Analysis**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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