Models for Intensive Longitudinal Data

Edited by

THEODORE A. WALLS
JOSEPH L. SCHAFER

Models For Intensive Longitudinal Data

Rick H. Hoyle

Models For Intensive Longitudinal Data:

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 called Intensive Longitudinal Data This volume features state of the art applied statistical modelling strategies developed by leading statisticians and methodologists

Models for Intensive Longitudinal Data Joseph L. Schafer, Theodore A. Walls, 2006 A new class of longitudinal data has emerged with the use of technological devices for scientific data collection called Intensive Longitudinal Data This volume features state of the art applied statistical modelling strategies developed by leading statisticians and methodologists

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 **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 Multilevel Models for Intensive Longitudinal Data with Heterogeneous Error Structure Seungmin com Jahng, 2008 Recent developments in data collection methods in the behavioral and social sciences such as Ecological Momentary Assessment EMA enables researchers to gather intensive longitudinal data ILD and to examine more detailed features of intraindividual variation of a variable s over time Due to its high intensity of assessments within individuals ILD often has different characteristics from traditional longitudinal data with a few measurement occasions and requires different assumptions of statistical models in use In the present thesis issues in the analysis of ILD and problems of current use of statistical models for the analysis of ILD are discussed and investigated Specifically the issue of heterogeneity of autocorrelation and variance across individuals in ILD is extensively studied for multilevel models MLMs In chapter 2 a brief introduction to multilevel models and issues in modeling residual covariance structure in MLMs are provided and discussed In chapter 3 it is shown that bias in estimation of parameters in MLMs under homogeneity assumption is not ignorable when autocorrelation differs across individuals and its average is high It is also shown that a transformation method which

multiplies variables in the model by the inverse of Cholesky factor of individual specific error covariance attenuates the bias for ILD Chapter 4 reviews variance function models for heterogeneous variance and introduces a two step MLM approach for modeling heterogeneous variance using squared residuals A simulation study showed that the two step MLM does not suffer from non convergence and is applicable to ILD **Dynamic Models for Intensive Longitudinal Data** Jessica Trail, 2015 Functional data analysis FDA of intensive longitudinal data is becoming increasingly popular in the behavioral sciences to study time varying processes This dissertation focuses on integrating two methods which are useful in FDA dynamical systems models and time varying coefficient models Dynamic models provide a more detailed description of a time varying process than some traditional longitudinal data methods including effects that characterize the shape magnitude and speed of the outcome s response to a change in inputs or predictors Allowing these effects to vary as functions of time uses the intensive nature of the data to describe even more complex change In the behavioral sciences a better understanding of the dynamics of a process could be used to inform the design of behavioral interventions For example this dissertation was motivated by a study designed to examine the trajectories of change in students smoking behavior during the freshman year of college A better understanding of the trajectory of smoking onset will help inform the development of behavioral interventions to alter this trajectory and prevention smoking This is important because smoking is the leading preventable cause of death in the US The repeated measurements used to describe a dynamical system frequently contain measurement error and so statistical methods are needed to estimate the parameters of the differential equation model In this dissertation we propose a two step estimation method The first step uses spline smoothers to smooth the noisy observed data and estimate the derivatives. The second step uses penalized splines to estimate the time varying effects in the differential equation We use simulated data to describe the performance of the proposed estimation method. To test hypotheses about the time varying effects for example whether or not an effect is significantly time varying or determining if a covariate is significant in the model we propose a generalized likelihood ratio test statistic We use bootstrap methods and a Monte Carlo simulation study to assess the finite sample properties of the proposed test statistic The proposed methodology is applied to data from the UpTERN study Tiffany et al 2004 In this empirical example we examine and test hypotheses about the relations between covariates such as alcohol use and gender and the dynamics of cigarette smoking The Science of Real-Time Data Capture Arthur Stone, Saul Shiffman, Audie Atienza, Linda Nebeling, 2007-04-19 The National Cancer Institute NCI has designated the topic of real time data capture as an important and innovative research area As such the NCI sponsored a national meeting of distinguished research scientists to discuss the state of the science in this emerging and burgeoning field This book reflects the findings of the conference and discusses the state of the science of real time data capture and its application to health and cancer research It provides a conceptual framework for minute by minute data capture ecological momentary assessments EMA and discusses health related topics where these assessements have been applied In addition

future directions in real time data capture assessment interventions methodology and technology are discussed Despite the rapidly growing interest in the methodology of real time data capture e g journal special issues widely attended conference presentations etc to date no single book has focused solely on this topic The volume will serve as an important resource for researchers students and government scientists interested in pursuing real time health research and will nicely complement our lists in epidemiology public health and oncology The Oxford Handbook of Quantitative Methods in Psychology: Vol. 2 Todd D. Little, 2013-03-21 The Oxford Handbook of Quantitative Methods in Psychology provides an accessible and comprehensive review of the current state of the science and a one stop source for learning and reviewing current best practices in a quantitative methods across the social behavioral and educational sciences Handbook of Advanced Multilevel Analysis Joop Hox, J. Kyle Roberts, 2011-01-11 This new handbook is the definitive resource on advanced topics related to multilevel analysis. The editors assembled the top minds in the field to address the latest applications of multilevel modeling as well as the specific difficulties and methodological problems that are becoming more common as more complicated models are developed Each chapter features examples that use actual datasets These datasets as well as the code to run the models are available on the book s website http www hlm online com Each chapter includes an introduction that sets the stage for the material to come and a conclusion Divided into five sections the first provides a broad introduction to the field that serves as a framework for understanding the latter chapters Part 2 focuses on multilevel latent variable modeling including item response theory and mixture modeling Section 3 addresses models used for longitudinal data including growth curve and structural equation modeling Special estimation problems are examined in section 4 including the difficulties involved in estimating survival analysis Bayesian estimation bootstrapping multiple imputation and complicated models including generalized linear models optimal design in multilevel models and more The book s concluding section focuses on statistical design issues encountered when doing multilevel modeling including nested designs analyzing cross classified models and dyadic data analysis Intended for methodologists statisticians and researchers in a variety of fields including psychology education and the social and health sciences this handbook also serves as an excellent text for graduate and PhD level courses in multilevel modeling A basic knowledge of multilevel modeling is assumed Handbook of Research Methods for Studying Daily Life Matthias R. Mehl, Tamlin S. Conner, 2013-10-01 Bringing together leading authorities this unique handbook reviews the breadth of current approaches for studying how people think feel and behave in everyday environments rather than in the laboratory The volume thoroughly describes experience sampling methods diary methods physiological measures and other self report and non self report tools that allow for repeated real time measurement in natural settings Practical guidance is provided to help the reader design a high quality study select and implement appropriate methods and analyze the resulting data using cutting edge statistical techniques Applications across a wide range of psychological subfields and research areas are discussed in detail **Handbook of Structural Equation**

Modeling Rick H. Hoyle, 2023-02-17 This accessible volume presents both the mechanics of structural equation modeling SEM and specific SEM strategies and applications The editor along with an international group of contributors and editorial advisory board are leading methodologists who have organized the book to move from simpler material to more statistically complex modeling approaches Sections cover the foundations of SEM statistical underpinnings from assumptions to model modifications steps in implementation from data preparation through writing the SEM report and basic and advanced applications including new and emerging topics in SEM Each chapter provides conceptually oriented descriptions fully explicated analyses and engaging examples that reveal modeling possibilities for use with readers data Many of the chapters also include access to data and syntax files at the companion website allowing readers to try their hands at reproducing the The SAGE Handbook of Quantitative Methods in Psychology Roger E Millsap, Alberto Maydeu-Olivares, 2009-08-05 I often wonder to myself whether the field needs another book handbook or encyclopedia on this topic In this case I think that the answer is truly yes The handbook is well focused on important issues in the field and the chapters are written by recognized authorities in their fields The book should appeal to anyone who wants an understanding of important topics that frequently go uncovered in graduate education in psychology David C Howell Professor Emeritus University of Vermont Quantitative psychology is arguably one of the oldest disciplines within the field of psychology and nearly all psychologists are exposed to quantitative psychology in some form While textbooks in statistics research methods and psychological measurement exist none offer a unified treatment of quantitative psychology The SAGE Handbook of Quantitative Methods in Psychology does just that Each chapter covers a methodological topic with equal attention paid to established theory and the challenges facing methodologists as they address new research questions using that particular methodology The reader will come away from each chapter with a greater understanding of the methodology being addressed as well as an understanding of the directions for future developments within that methodological area Drawing on a global scholarship the Handbook is divided into seven parts Part One Design and Inference addresses issues in the inference of causal relations from experimental and non experimental research along with the design of true experiments and quasi experiments and the problem of missing data due to various influences such as attrition or non compliance Part Two Measurement Theory begins with a chapter on classical test theory followed by the common factor analysis model as a model for psychological measurement The models for continuous latent variables in item response theory are covered next followed by a chapter on discrete latent variable models as represented in latent class analysis Part Three Scaling Methods covers metric and non metric scaling methods as developed in multidimensional scaling followed by consideration of the scaling of discrete measures as found in dual scaling and correspondence analysis Models for preference data such as those found in random utility theory are covered next Part Four Data Analysis includes chapters on regression models categorical data analysis multilevel or hierarchical models resampling methods robust data analysis meta analysis Bayesian data analysis

and cluster analysis Part Five Structural Equation Models addresses topics in general structural equation modeling nonlinear structural equation models mixture models and multilevel structural equation models Part Six Longitudinal Models covers the analysis of longitudinal data via mixed modeling time series analysis and event history analysis Part Seven Specialized Models covers specific topics including the analysis of neuro imaging data and functional data analysis Handbook of Social Research Methods Pertti Alasuutari, Leonard Bickman, Julia Brannen, 2008-02-25 The SAGE Handbook of Social Research Methods is a must for every social science researcher It charts the new and evolving terrain of social research methodology covering qualitative quantitative and mixed methods in one volume The Handbook includes chapters on each phase of the research process research design methods of data collection and the processes of analyzing and interpreting data The volume maintains that there is much more to research than learning skills and techniques methodology involves the fit between theory research questions research design and analysis The book also includes several chapters that describe historical and current directions in social research debating crucial subjects such as qualitative versus quantitative paradigms how to judge the credibility of types of research and the increasingly topical issue of research ethics The Handbook serves as an invaluable resource for approaching research with an open mind This volume maps the field of social research methods using an approach that will prove valuable for both students and researchers The SAGE Handbook of Multilevel Modeling Marc A. Scott, Jeffrey S. Simonoff, Brian D. Marx, 2013-08-31 In this important new Handbook the editors have gathered together a range of leading contributors to introduce the theory and practice of multilevel modeling The Handbook establishes the connections in multilevel modeling bringing together leading experts from around the world to provide a roadmap for applied researchers linking theory and practice as well as a unique arsenal of state of the art tools It forges vital connections that cross traditional disciplinary divides and introduces best practice in the field Part I establishes the framework for estimation and inference including chapters dedicated to notation model selection fixed and random effects and causal inference Part II develops variations and extensions such as nonlinear semiparametric and latent class models Part III includes discussion of missing data and robust methods assessment of fit and software Part IV consists of exemplary modeling and data analyses written by methodologists working in specific disciplines Combining practical pieces with overviews of the field this Handbook is essential reading for any student or researcher looking to apply multilevel The SAGE Handbook of Personality and Individual Differences Virgil Zeigler-Hill, Todd techniques in their own research K. Shackelford, 2021-08-04 The examination of personality and individual differences is a major field of research in the modern discipline of psychology Concerned with the ways humans develop an organised set of characteristics to shape themselves and the world around them it is a study of how people come to be different and similar to others on both an individual and a cultural level The SAGE Handbook of Personality and Individual Difference is the broadest and most comprehensive overview of the field to date With outstanding contributions from leading scholars across the world this is an

invaluable resource for researchers and graduate students Its three volumes cover all of the central concepts domains and debates of this globally expanding discipline including the core theoretical perspectives research strategies as well as the origins applications and measurement of personality and individual difference **Landmark Papers in Psychiatry** Elizabeth Ryznar, Aderonke B. Pederson, Mark A. Reinecke, John G. Csernansky, 2020 Landmark Papers in Psychiatry traces the evolution of psychiatry as a scientific discipline By summarizing over 100 watershed psychiatric papers this text gives historical context to the research trajectory of psychiatry Structural Equation Modeling for Health and Medicine Douglas D. Gunzler, Adam T. Perzynski, Adam C. Carle, 2021-04-12 Structural equation modeling SEM is a very general and flexible multivariate technique that allows relationships among variables to be examined The roots of SEM are in the social sciences In writing this textbook the authors look to make SEM accessible to a wider audience of researchers across many disciplines addressing issues unique to health and medicine SEM is often used in practice to model and test hypothesized causal relationships among observed and latent unobserved variables including in analysis across time and groups It can be viewed as the merging of a conceptual model path diagram confirmatory factor analysis and path analysis In this textbook the authors also discuss techniques such as mixture modeling that expand the capacity of SEM using a combination of both continuous and categorical latent variables Features Basic intermediate and advanced SEM topics Detailed applications particularly relevant for health and medical scientists Topics and examples that are pertinent to both new and experienced SEM researchers Substantive issues in health and medicine in the context of SEM Both methodological and applied examples Numerous figures and diagrams to illustrate the examples As SEM experts situated among clinicians and multidisciplinary researchers in medical settings the authors provide a broad current on the ground understanding of the issues faced by clinical and health services researchers and decision scientists This book gives health and medical researchers the tools to apply SEM approaches to study complex relationships between clinical measurements individual and community level Behavioral Healthcare and Technology Lisa A. Marsch, Sarah Elizabeth characteristics and patient reported scales Lord, Jesse Dallery, 2015 This book defines the state of scientific research focused on the development experimental evaluation and effective implementation of technology based web mobile therapeutic tools targeting behavioral health Written by an expert interdisciplinary group of authors Behavioral Healthcare and Technology defines the opportunity for science based technology to transform models of behavioral healthcare **New Frontiers of Biostatistics and** Bioinformatics Yichuan Zhao, Ding-Geng Chen, 2018-12-05 This book is comprised of presentations delivered at the 5th Workshop on Biostatistics and Bioinformatics held in Atlanta on May 5 7 2017 Featuring twenty two selected papers from the workshop this book showcases the most current advances in the field presenting new methods theories and case applications at the frontiers of biostatistics bioinformatics and interdisciplinary areas Biostatistics and bioinformatics have been playing a key role in statistics and other scientific research fields in recent years The goal of the 5th Workshop on Biostatistics and

Bioinformatics was to stimulate research foster interaction among researchers in field and offer opportunities for learning and facilitating research collaborations in the era of big data The resulting volume offers timely insights for researchers students and industry practitioners

Self-Harm: Suicidal and Non-Suicidal Behaviors

Michael Kaess, Nancy Lee Heath, Marco Sarchiapone, Paul L. Plener, 2022-01-25

Models For Intensive Longitudinal Data Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Models For Intensive Longitudinal Data**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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