Models for INTENSIVE LONGITUDINAL DATA

Edited by

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Models For Intensive Longitudinal Data

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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 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 contains program examples and documentation Multilevel Models for Intensive Longitudinal Data with Heterogeneous Error Structure Seungmin 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 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 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 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 authors results 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 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 guality study select and implement appropriate methods and analyze the resulting data using cutting edge statistical techniques Applications across a **Handbook of Advanced Multilevel** wide range of psychological subfields and research areas are discussed in detail 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 Chronicle of a Measurement **Unforetold** Sebastián Castro Álvarez,2022 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 techniques in their own research 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 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 characteristics and patient reported scales Behavioral Healthcare and **Technology** Lisa A. Marsch, Sarah Elizabeth 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

Handbook of Psychology, Research Methods in Psychology Irving B. Weiner, John A. Schinka, Wayne F. Velicer, 2012-10-16 Psychology is of interest to academics from many fields as well as to the thousands of academic and clinical psychologists and general public who can t help but be interested in learning more about why humans think and behave as they do This award winning twelve volume reference covers every aspect of the ever fascinating discipline of psychology and represents the most current knowledge in the field This ten year revision now covers discoveries based in neuroscience clinical psychology s new interest in evidence based practice and mindfulness and new findings in social developmental and forensic psychology

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 Experience Sampling in Mental Health Research Jasper Palmier-Claus, Gillian Haddock, Filippo Varese, 2019-01-25 Experience Sampling in Mental Health Research provides comprehensive and user friendly guidance on when and how to apply this methodology in the assessment of clinical populations Divided into three sections the book offers step by step instruction on how to design develop and implement an ESM study as well as advice on how this approach might be adapted for common mental health difficulties With an eye to the future of this type of research the contributors also consider how ESM might be adapted for use as a form of clinical assessment and intervention Experience Sampling in Mental Health Research combines the knowledge and expertise of leading international experts in the field and will be helpful for students researchers and clinicians wishing to start or develop their understanding of this methodology

Models For Intensive Longitudinal Data Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has become more evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Models For Intensive Longitudinal Data**, a literary masterpiece that delves deep in to the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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