



*Models for*  
**INTENSIVE  
LONGITUDINAL  
DATA**

*Edited by*  
**THEODORE A. WALLS  
JOSEPH L. SCHAFER**

# Models For Intensive Longitudinal Data

**Jessica Trail**



## **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.com](http://www.intensivelongitudinal.com)

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 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 prevent 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, 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 assessments 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 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

*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 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

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