

*Models for*  
**INTENSIVE  
LONGITUDINAL  
DATA**

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

# Models For Intensive Longitudinal Data

**Arthur Stone**

## **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.

*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 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 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.

Chronicle of a Measurement Unforetold Sebastián Castro Álvarez, 2022 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 *Longitudinal Analysis* Lesa Hoffman, 2015-01-30 Longitudinal Analysis provides an accessible application oriented treatment of introductory and advanced linear models for within person fluctuation and change Organized by research design and data type the text uses in depth examples to provide a complete description of the model building process The core longitudinal models and their extensions are presented within a multilevel modeling framework paying careful attention to the modeling concerns that are unique to longitudinal data Written in a conversational style the text provides verbal and visual interpretation of model equations to aid in their translation to empirical research results Overviews and summaries boldfaced key terms and review questions will help readers synthesize the key concepts in each chapter Written for non mathematically oriented readers this text features A description of the data manipulation steps required prior to model estimation so readers can more easily apply the steps to their own data An emphasis on how the terminology interpretation and estimation of familiar general linear models relates to those of more complex models for longitudinal data Integrated model comparisons effect sizes and statistical inference in each example to strengthen readers understanding of the overall model building process Sample results sections for each example to provide useful templates for published reports Examples using both real and simulated data in the text along with syntax and output for SPSS SAS STATA and Mplus at [www.PilesOfVariance.com](http://www.PilesOfVariance.com) to help readers apply the models to their own data The book opens with the building blocks of longitudinal analysis general ideas the general linear model for between person analysis and between and within person models for the variance and the options within repeated measures analysis of variance Section 2 introduces unconditional longitudinal models including alternative covariance structure models to describe within person fluctuation over time and random effects models for within person change Conditional longitudinal models are presented in section 3 including both time invariant and time varying predictors Section 4 reviews advanced applications including alternative metrics of time in accelerated longitudinal designs three level models for multiple dimensions of within person time the analysis of individuals in groups over time and repeated measures designs not involving time The book concludes with additional considerations and future directions including an overview of sample size planning and other model extensions for non normal outcomes and intensive longitudinal data Class tested at the University of Nebraska Lincoln and in intensive summer workshops this is an ideal text for graduate level courses on longitudinal analysis or general multilevel modeling taught in psychology human development and family studies education business and other behavioral social and health sciences The book's accessible approach will also help those trying to learn on their own Only familiarity with general linear models regression analysis of variance is needed for this text **Longitudinal Structural Equation Modeling with Mplus** Christian Geiser, 2020-10-08 An in depth guide to executing longitudinal confirmatory factor analysis CFA and structural equation modeling SEM in Mplus this book uses latent state trait LST theory as a unifying conceptual framework

including the relevant coefficients of consistency occasion specificity and reliability Following a standard format chapters review the theoretical underpinnings strengths and limitations of the various models present data examples and demonstrate each model s application and interpretation in Mplus with numerous screen shots and output excerpts Coverage encompasses both traditional models autoregressive change score and growth curve models and LST models for analyzing single and multiple indicator data The book discusses measurement equivalence testing intensive longitudinal data modeling and missing data handling and provides strategies for model selection and reporting of results User friendly features include special topic boxes chapter summaries and suggestions for further reading The companion website features data sets annotated syntax files and output for all of the examples Impact of Temporal Order Selection on Clustering Intensive Longitudinal Data Based on VAR Models Yaqi Li,2023 Journal of the American Statistical Association ,2007

### **Measures of Agreement in Method Comparison Studies for Intensive Longitudinal Data** Mina Yoo,2011

*International Handbook of Love* Claude-Hélène Mayer,Elisabeth Vanderheiden,2025-12-10 The second revised and expanded edition of this successful handbook extensively explores the idea and practice of love from diverse cultural psychological and biological perspectives It provides a comprehensive understanding of love by examining its various manifestations cultural interpretations and the underlying psychological and biological mechanisms that shape it Notably the book won the William B Gudykunst Outstanding Book Award from the International Academy for Intercultural Research in July 2023 underscoring its scholarly excellence The work is structured into several 11 key sections to cover the field comprehensively It begins with an exploration of theories and concepts of love followed by an examination of cultural interpretations and practices and exploring the different forms and expressions of love such as romantic love familial love platonic love and self love or friendship Next it addresses the dynamics of romantic relationships exploring topics such as love and marriage love in the digital age and long distance relationships It also covers challenges and complications in love including conflict unrequited love mental health issues and the healing process after breakups To reflect the evolving nature of love in contemporary society the work includes a section on modern love and technology discussing topics like love and artificial intelligence cyberspace as a romantic culture and the future of intimacy It also examines love in later life The handbook features contributions from a wide range of experts including psychologists sociologists anthropologists neuroscientists relationship counsellors therapists and literary authors This ensures a rich and varied perspective on the subject matter Additionally it serves as a valuable academic resource for educators learners and researchers in related fields Through personal stories literary excerpts and philosophical discussions the reference work also invites readers to reflect on their own experiences and beliefs about love inspiring personal growth and deeper connections with others The handbook is an essential resource for anyone seeking a deeper understanding of love in its many forms and contexts and provides a comprehensive guide that is both academically rigorous and accessible to a broad audience **Bayesian Analysis of**

**Random Coefficient Dynamic Factor Models** Hairong Song,2009

**Annual Review of Clinical Psychology**,2009

*How to Analyze Intensive Longitudinal Digital Data* Michael Russell,2022 If traditional longitudinal data is having more than one observation per person intensive longitudinal data ILD is having many observations per person often collected within relatively short timeframes e g every 20 minutes every few hours over 1 2 weeks Digital technologies including mobile phone based surveys and wearable biosensors generate ILD Such data provides an abundance of information and offers both a challenge and opportunity for analysts Here I discuss central considerations for the ILD analyst and provide a brief introductory How to Guide for the analysis of ILD The reader will learn the central features of ILD including 1 the contrast of between and within person effects and its 2 temporal patterning These features will be addressed with various multilevel models and will finish with the application of time varying effect modeling to explore time varying associations This guide is accompanied by supplementary code in R <https://www.r-project.org> to facilitate the reader s analysis of their own ILD available in the further resource section

**Annual Review of Psychology** Individuals,Review Annual,2005-02 Twenty three articles synthesize a year s worth of psychological research and provide portraits of the current state of the field in different topical areas Presented by Fiske Princeton U Schacter Harvard U and Kazdin Yale U the articles cover such research topics as decision making models of brain function in neuroimaging music perc

**Annual Review of Psychology** Calvin Perry Stone,2009 Publishes original critical reviews of the significant literature and current developments in psychology

**Handling Missing Data in the Modeling of Intensive Longitudinal Data** Linying Ji,2016 The availability of intensive longitudinal data has helped spur the use more sophisticated methods for studying change Unfortunately missing data issues also arise frequently in such studies Conventional missing data approaches are fraught with additional computational challenges when applied to intensive longitudinal data and may not always be applicable due to the broad ranging measurement characteristics of the covariates In this study we consider and illustrate the use of two approaches for implementing multiple imputing MI to cope with the missingness in fitting multivariate time series models including a full MI approach in which all missing cases are imputed simultaneously and a partial MI approach in which missing covariates are imputed with multiple imputation while missingness in dependent variables are handled with full information maximum likelihood estimation The performance of these approaches was examined under assumptions of missing completely at random missing at random and nonignorable missingness The advantages and limitations of each approach are evaluated using a simulation study We further demonstrate the implementation of the procedure in R using empirical data involving n 111 families in which children s influences on parental conflicts are modeled as covariates over the course of 15 days

**The British National Bibliography** Arthur James Wells,2006

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