Frans Willekens

# Multistate Analysis of Life Histories with R



Springer

# **Multistate Analysis Of Life Histories With R Use R**

Richard J Cook, Jerald F. Lawless

#### Multistate Analysis Of Life Histories With R Use R:

Multistate Analysis of Life Histories with R Frans Willekens, 2014-09-11 This book provides an introduction to multistate event history analysis It is an extension of survival analysis in which a single terminal event endpoint is considered and the time to event is studied Multistate models focus on life histories or trajectories conceptualized as sequences of states and sequences of transitions between states Life histories are modeled as realizations of continuous time Markov processes The model parameters transition rates are estimated from data on event counts and populations at risk using the statistical theory of counting processes The Comprehensive R Network Archive CRAN includes several packages for multistate modeling This book is about Biograph The package is designed to a enhance exploratory analysis of life histories and b make multistate modeling accessible The package incorporates utilities that connect to several packages for multistate modeling including survival eha Epi mvna mstate msm and TraMineR for sequence analysis The book is a hands on presentation of Biograph and the packages listed It is written from the perspective of the user To help the user master the techniques and the software a single data set is used to illustrate the methods and software It is the subsample of the German Life History Survey which was also used by Blossfeld and Rohwer in their popular textbook on event history modeling Another data set the Netherlands Family and Fertility Survey is used to illustrate how Biograph can assist in answering questions on life paths of cohorts and individuals The book is suitable as a textbook for graduate courses on event history analysis and introductory courses on competing risks and multistate models It may also be used as a self study book The R code used in the book is available online Frans Willekens is affiliated with the Max Planck Institute for Demographic Research MPIDR in Rostock Germany He is Emeritus Professor of Demography at the University of Groningen a Honorary Fellow of the Netherlands Interdisciplinary Demographic Institute NIDI in the Hague and a Research Associate of the International Institute for Applied Systems Analysis IIASA Laxenburg Austria He is a member of Royal Netherlands Academy of Arts and Sciences KNAW He has contributed to the modeling and simulation of life histories mainly in the context of population forecasting Multistate Models for the Analysis of Life History Data Richard J Cook, Jerald F. Lawless, 2018-05-15 Multistate Models for the Analysis of Life History Data provides the first comprehensive treatment of multistate modeling and analysis including parametric nonparametric and semiparametric methods applicable to many types of life history data Special models such as illness death competing risks and progressive processes are considered as well as more complex models. The book provides both theoretical development and illustrations of analysis based on data from randomized trials and observational cohort studies in health research It features Discusses a wide range of applications of multistate models Presents methods for both continuously and intermittently observed life history processes Gives a thorough discussion of conditionally independent censoring and observation processes Discusses models with random effects and joint models for two or more multistate processes Discusses and illustrates software for multistate analysis that is available in R Target audience includes those

engaged in research and applications involving multistate models Applied Survival Analysis Using R Dirk F. Moore, 2016-05-11 Applied Survival Analysis Using R covers the main principles of survival analysis gives examples of how it is applied and teaches how to put those principles to use to analyze data using R as a vehicle Survival data where the primary outcome is time to a specific event arise in many areas of biomedical research including clinical trials epidemiological studies and studies of animals Many survival methods are extensions of techniques used in linear regression and categorical data while other aspects of this field are unique to survival data This text employs numerous actual examples to illustrate survival curve estimation comparison of survivals of different groups proper accounting for censoring and truncation model variable selection and residual analysis Because explaining survival analysis requires more advanced mathematics than many other statistical topics this book is organized with basic concepts and most frequently used procedures covered in earlier chapters with more advanced topics near the end and in the appendices A background in basic linear regression and categorical data analysis as well as a basic knowledge of calculus and the R system will help the reader to fully appreciate the information presented Examples are simple and straightforward while still illustrating key points shedding light on the application of survival analysis in a way that is useful for graduate students researchers and practitioners in biostatistics Heart Rate Variability Analysis with the R package RHRV Constantino Antonio García Martínez, Abraham Otero Quintana, Xosé A. Vila, María José Lado Touriño, Leandro Rodríguez-Liñares, Jesús María Rodríguez Presedo, Arturo José Méndez Penín, 2017-09-18 This book introduces readers to the basic concepts of Heart Rate Variability HRV and its most important analysis algorithms using a hands on approach based on the open source RHRV software HRV refers to the variation over time of the intervals between consecutive heartbeats Despite its apparent simplicity HRV is one of the most important markers of the autonomic nervous system activity and it has been recognized as a useful predictor of several pathologies. The book discusses all the basic HRV topics including the physiological contributions to HRV clinical applications HRV data acquisition HRV data manipulation and HRV analysis using time domain frequency domain time frequency nonlinear and fractal techniques Detailed examples based on real data sets are provided throughout the book to illustrate the algorithms and discuss the physiological implications of the results Offering a comprehensive guide to analyzing beat information with RHRV the book is intended for masters and Ph D students in various disciplines such as biomedical engineering human and veterinary medicine biology and pharmacy as well as researchers conducting heart rate variability analyses on both human and animal data Bayesian Cost-Effectiveness Analysis with the R package BCEA Gianluca Baio, Andrea Berardi, Anna Heath, 2017-05-25 The book provides a description of the process of health economic evaluation and modelling for cost effectiveness analysis particularly from the perspective of a Bayesian statistical approach Some relevant theory and introductory concepts are presented using practical examples and two running case studies. The book also describes in detail how to perform health economic evaluations using the R package BCEA Bayesian Cost Effectiveness Analysis BCEA can be

used to post process the results of a Bayesian cost effectiveness model and perform advanced analyses producing standardised and highly customisable outputs It presents all the features of the package including its many functions and their practical application as well as its user friendly web interface The book is a valuable resource for statisticians and practitioners working in the field of health economics wanting to simplify and standardise their workflow for example in the preparation of dossiers in support of marketing authorisation or academic and scientific publications **ggplot2** Hadlev Wickham, 2016-06-08 This new edition to the classic book by ggplot2 creator Hadley Wickham highlights compatibility with knitr and RStudio ggplot2 is a data visualization package for R that helps users create data graphics including those that are multi layered with ease With ggplot2 it s easy to produce handsome publication quality plots with automatic legends created from the plot specification superimpose multiple layers points lines maps tiles box plots from different data sources with automatically adjusted common scales add customizable smoothers that use powerful modeling capabilities of R such as loess linear models generalized additive models and robust regression save any ggplot2 plot or part thereof for later modification or reuse create custom themes that capture in house or journal style requirements and that can easily be applied to multiple plots approach a graph from a visual perspective thinking about how each component of the data is represented on the final plot This book will be useful to everyone who has struggled with displaying data in an informative and attractive way Some basic knowledge of R is necessary eq importing data into R ggplot2 is a mini language specifically tailored for producing graphics and you ll learn everything you need in the book After reading this book you ll be able to produce graphics customized precisely for your problems and you ll find it easy to get graphics out of your head and on to the screen or page

**Data Wrangling with R** Bradley C. Boehmke, Ph.D.,2016-11-17 This guide for practicing statisticians data scientists and R users and programmers will teach the essentials of preprocessing data leveraging the R programming language to easily and quickly turn noisy data into usable pieces of information Data wrangling which is also commonly referred to as data munging transformation manipulation janitor work etc can be a painstakingly laborious process Roughly 80% of data analysis is spent on cleaning and preparing data however being a prerequisite to the rest of the data analysis workflow visualization analysis reporting it is essential that one become fluent and efficient in data wrangling techniques This book will guide the user through the data wrangling process via a step by step tutorial approach and provide a solid foundation for working with data in R The author's goal is to teach the user how to easily wrangle data in order to spend more time on understanding the content of the data By the end of the book the user will have learned How to work with different types of data such as numerics characters regular expressions factors and dates The difference between different data structures and how to create add additional components to and subset each data structure How to acquire and parse data from locations previously inaccessible How to develop functions and use loop control structures to reduce code redundancy How to use pipe operators to simplify code and make it more readable How to reshape the layout of data and manipulate summarize and join data sets

**Learn ggplot2 Using Shiny App** Keon-Woong Moon, 2017-04-13 This book and app is for practitioners professionals researchers and students who want to learn how to make a plot within the R environment using ggplot2 step by step without coding In widespread use in the statistical communities R is a free software language and environment for statistical programming and graphics Many users find R to have a steep learning curve but to be extremely useful once overcome ggplot2 is an extremely popular package tailored for producing graphics within R but which requires coding and has a steep learning curve itself and Shiny is an open source R package that provides a web framework for building web applications using R without requiring HTML CSS or JavaScript This manual integrating R ggplot2 and Shiny introduces a new Shiny app Learn ggplot2 that allows users to make plots easily without coding With the Learn ggplot2 Shiny app users can make plots using ggplot2 without having to code each step reducing typos and error messages and allowing users to become familiar with ggplot2 code The app makes it easy to apply themes make multiplots combining several plots into one plot and download plots as PNG PDF or PowerPoint files with editable vector graphics Users can also make plots on any computer or smart phone Learn ggplot2 Using Shiny App allows users to Make publication ready plots in minutes without coding Download plots with desired width height and resolution Plot and download plots in png pdf and PowerPoint formats with or without R code and with editable vector graphics Simulation and Inference for Stochastic Processes with YUIMA Stefano M. Iacus, Nakahiro Yoshida, 2018-06-01 The YUIMA package is the first comprehensive R framework based on S4 classes and methods which allows for the simulation of stochastic differential equations driven by Wiener process L vy processes or fractional Brownian motion as well as CARMA COGARCH and Point processes The package performs various central statistical analyses such as quasi maximum likelihood estimation adaptive Bayes estimation structural change point analysis hypotheses testing asynchronous covariance estimation lead lag estimation LASSO model selection and so on YUIMA also supports stochastic numerical analysis by fast computation of the expected value of functionals of stochastic processes through automatic asymptotic expansion by means of the Malliavin calculus All models can be multidimensional multiparametric or non parametric The book explains briefly the underlying theory for simulation and inference of several classes of stochastic processes and then presents both simulation experiments and applications to real data Although these processes have been originally proposed in physics and more recently in finance they are becoming popular also in biology due to the fact the time course experimental data are now available. The YUIMA package available on CRAN can be freely downloaded and this companion book will make the user able to start his or her analysis from the first page Emerging Topics in Modeling Interval-Censored Survival Data Jianguo Sun, Ding-Geng Chen, 2022-11-29 This book primarily aims to discuss emerging topics in statistical methods and to booster research education and training to advance statistical modeling on interval censored survival data Commonly collected from public health and biomedical research among other sources interval censored survival data can easily be mistaken for typical right censored survival data which can result in erroneous

statistical inference due to the complexity of this type of data The book invites a group of internationally leading researchers to systematically discuss and explore the historical development of the associated methods and their computational implementations as well as emerging topics related to interval censored data It covers a variety of topics including univariate interval censored data multivariate interval censored data clustered interval censored data competing risk interval censored data data with interval censored covariates interval censored data from electric medical records and misclassified interval censored data Researchers students and practitioners can directly make use of the state of the art methods covered in the book to tackle their problems in research education training and consultation Survival Analysis Prabhanjan Narayanachar Tattar, H J Vaman, 2022-08-26 Survival analysis generally deals with analysis of data arising from clinical trials Censoring truncation and missing data create analytical challenges and the statistical methods and inference require novel and different approaches for analysis Statistical properties essentially asymptotic ones of the estimators and tests are aptly handled in the counting process framework which is drawn from the larger arm of stochastic calculus With explosion of data generation during the past two decades survival data has also enlarged assuming a gigantic size Most statistical methods developed before the millennium were based on a linear approach even in the face of complex nature of survival data Nonparametric nonlinear methods are best envisaged in the Machine Learning school This book attempts to cover all these aspects in a concise way Survival Analysis offers an integrated blend of statistical methods and machine learning useful in analysis of survival data The purpose of the offering is to give an exposure to the machine learning trends for lifetime data analysis Features Classical survival analysis techniques for estimating statistical functional and hypotheses testing Regression methods covering the popular Cox relative risk regression model Aalen's additive hazards model etc Information criteria to facilitate model selection including Akaike Bayes and Focused Penalized methods Survival trees and ensemble techniques of bagging boosting and random survival forests A brief exposure of neural networks for survival data R program Introducing Survival and Event History Analysis Melinda Mills, 2011-01-19 This book is illustration throughout the book an accessible practical and comprehensive guide for researchers from multiple disciplines including biomedical epidemiology engineering and the social sciences Written for accessibility this book will appeal to students and researchers who want to understand the basics of survival and event history analysis and apply these methods without getting entangled in mathematical and theoretical technicalities Inside readers are offered a blueprint for their entire research project from data preparation to model selection and diagnostics Engaging easy to read functional and packed with enlightening examples hands on exercises conversations with key scholars and resources for both students and instructors this text allows researchers to quickly master advanced statistical techniques It is written from the perspective of the user making it suitable as both a self learning tool and graduate level textbook Also included are up to date innovations in the field including advancements in the assessment of model fit unobserved heterogeneity recurrent events and multilevel event history models

Practical instructions are also included for using the statistical programs of R STATA and SPSS enabling readers to replicate Multi-State Survival Models for Interval-Censored Data Ardo van den the examples described in the text Hout, 2016-11-25 Multi State Survival Models for Interval Censored Data introduces methods to describe stochastic processes that consist of transitions between states over time It is targeted at researchers in medical statistics epidemiology demography and social statistics. One of the applications in the book is a three state process for dementia and survival in the older population This process is described by an illness death model with a dementia free state a dementia state and a dead state Statistical modelling of a multi state process can investigate potential associations between the risk of moving to the next state and variables such as age gender or education A model can also be used to predict the multi state process The methods are for longitudinal data subject to interval censoring Depending on the definition of a state it is possible that the time of the transition into a state is not observed exactly However when longitudinal data are available the transition time may be known to lie in the time interval defined by two successive observations Such an interval censored observation scheme can be taken into account in the statistical inference Multi state modelling is an elegant combination of statistical inference and the theory of stochastic processes Multi State Survival Models for Interval Censored Data shows that the statistical modelling is versatile and allows for a wide range of applications **Models for Multi-State Survival Data Per** Kragh Andersen, Henrik Ravn, 2023-10-11 Multi state models provide a statistical framework for studying longitudinal data on subjects when focus is on the occurrence of events that the subjects may experience over time They find application particularly in biostatistics medicine and public health The book includes mathematical detail which can be skipped by readers more interested in the practical examples It is aimed at biostatisticians and at readers with an interest in the topic having a more applied background such as epidemiology This book builds on several courses the authors have taught on the subject Key Features Intensity based and marginal models Survival data competing risks illness death models recurrent events Includes a full chapter on pseudo values Intuitive introductions and mathematical details Practical examples of event history data Exercises Software code in R and SAS and the data used in the book as well as solutions to the exercises can be found on the book s webpage https multi state book github io companion Large Covariance and Autocovariance Matrices Arup Bose, Monika Bhattacharjee, 2018-07-03 Estimation of large dispersion and autocovariance matrices using banding and tapering Joint convergence of high dimensional generalized dispersion matrices Limiting spectral distribution of symmetric polynomials in sample autocovariance matrices and normality of traces Application of free probability in high dimensional time series Estimation of coefficient matrices in high dimensional autoregressive process Public Policy Evaluation and Analysis Samir Amine, 2024-10-15 This edited volume examines how some OECD countries have adapted to new challenges in the labor market by evaluating and analyzing public programs implemented before during and after Covid 19 To gain a comprehensive understanding the volume adopts a multidisciplinary approach with chapters contributed by

authors from diverse disciplines and academic and professional backgrounds **Population Ecology in Practice** Dennis L. Murray, Brett K. Sandercock, 2020-02-10 A synthesis of contemporary analytical and modeling approaches in population ecology The book provides an overview of the key analytical approaches that are currently used in demographic genetic and spatial analyses in population ecology The chapters present current problems introduce advances in analytical methods and models and demonstrate the applications of quantitative methods to ecological data The book covers new tools for designing robust field studies estimation of abundance and demographic rates matrix population models and analyses of population dynamics and current approaches for genetic and spatial analysis Each chapter is illustrated by empirical examples based on real datasets with a companion website that offers online exercises and examples of computer code in the R statistical software platform Fills a niche for a book that emphasizes applied aspects of population analysis Covers many of the current methods being used to analyse population dynamics and structure Illustrates the application of specific analytical methods through worked examples based on real datasets Offers readers the opportunity to work through examples or adapt the routines to their own datasets using computer code in the R statistical platform Population Ecology in Practice is an excellent book for upper level undergraduate and graduate students taking courses in population ecology or ecological statistics as well as established researchers needing a desktop reference for contemporary methods used to develop robust population The Economic Geography of Cross-Border Migration Karima Kourtit, Bruce Newbold, Peter assessments Nijkamp, Mark Partridge, 2020-12-07 This handbook presents a collection of high quality authoritative scientific contributions on cross border migration written by a carefully selected group of recognized migration experts from around the globe In recent years cross border migration has become an important and intriguing issue from both a scientific and policy perspective In the age of migration the volume of cross border movements of people continues to rise while the nature of migration flows in terms of the determinants length of stay effects on the sending and host countries and legal status of migrants is changing dramatically Based on a detailed economic geographical analysis this handbook studies the motives for cross border migration the socio economic implications for sending countries and regions the locational choice determinants for cross border migrants and the manifold economic geographic consequences for host countries and regions Given the complexity of migration decisions and their local or regional impacts a systematic typology of migrants motives legal status level of education gender age singles or families etc is provided together with an assessment of push factors in the place of origin and pull factors at the destination On the basis of a solid analytical framework and reliable empirical evidence it examines the impacts of emigration for sending areas and of immigration for receiving areas and provides a comprehensive discussion of the policy dimensions of cross border migration Handbook of Population Dudley L. Poston, Michael Micklin, 2006-08-10 This comprehensive handbook provides an overview and update of the issues theories processes and applications of the social science of population studies The volume s 30 chapters cover the full range of conceptual empirical

disciplinary and applied approaches to the study of demographic phenomena This book is the first effort to assess the entire field since Hauser and Duncan's 1959 classic The Study of Population The chapter authors are among the leading contributors to demographic scholarship over the past four decades They represent a variety of disciplines and theoretical perspectives as well as interests in both basic and applied research Sensitivity Analysis: Matrix Methods in Demography and Ecology Hal Caswell, 2019-04-02 This open access book shows how to use sensitivity analysis in demography It presents new methods for individuals cohorts and populations with applications to humans other animals and plants The analyses are based on matrix formulations of age classified stage classified and multistate population models Methods are presented for linear and nonlinear deterministic and stochastic and time invariant and time varying cases Readers will discover results on the sensitivity of statistics of longevity life disparity occupancy times the net reproductive rate and statistics of Markov chain models in demography They will also see applications of sensitivity analysis to population growth rates stable population structures reproductive value equilibria under immigration and nonlinearity and population cycles Individual stochasticity is a theme throughout with a focus that goes beyond expected values to include variances in demographic outcomes The calculations are easily and accurately implemented in matrix oriented programming languages such as Matlab or R Sensitivity analysis will help readers create models to predict the effect of future changes to evaluate policy effects and to identify possible evolutionary responses to the environment Complete with many examples of the application the book will be of interest to researchers and graduate students in human demography and population biology The material will also appeal to those in mathematical biology and applied mathematics

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