

Frans Willekens

# Multistate Analysis of Life Histories with R



Springer

# Multistate Analysis Of Life Histories With R Use R

**SA Dillow**

## **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 enhance exploratory analysis of life histories and to 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     *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

**Readings in Population Research Methodology: Nuptiality,**

**migration, household, and family research** Donald J. Bogue,Eduardo E. Arriaga,Douglas L. Anderton,1993     Statistical Analysis of Data from Marked Bird Populations Byron J. T. Morgan,David L. Thomson,2002

**Environment & Planning**

,2001-07     **Annotated Bibliography of Canadian Demography** ,1983     **Annual Review of Sociology** W. R. Scott,1988     **Population** ,1997     Environment and Planning ,2001     **Biological & Agricultural Index** ,1984

*Encyclopedia of Quantitative Risk Analysis and Assessment* ,2008-09-02 Leading the way in this field the Encyclopedia of Quantitative Risk Analysis and Assessment is the first publication to offer a modern comprehensive and in depth resource to the huge variety of disciplines involved A truly international work its coverage ranges across risk issues pertinent to life scientists engineers policy makers healthcare professionals the finance industry the military and practising statisticians Drawing on the expertise of world renowned authors and editors in this field this title provides up to date material on drug safety investment theory public policy applications transportation safety public perception of risk epidemiological risk national defence and security critical infrastructure and program management This major publication is easily accessible for all those involved in the field of risk assessment and analysis For ease of use it is available in print and online     *The Dhaka University Journal of Science* ,2002     *The American Naturalist* ,2009     *The Zoological Record* ,2003     **Population**

**Index Bibliography: 1978-1981: Subject index, geographical index** Princeton University. Office of Population

Research,1984     **Current Index to Statistics, Applications, Methods and Theory** ,1999 The Current Index to Statistics CIS is a bibliographic index of publications in statistics probability and related fields     Index to IEEE Publications Institute of Electrical and Electronics Engineers,1985 Issues for 1973 cover the entire IEEE technical literature     Readings in Population Research Methodology: Advanced basic tools Donald J. Bogue,Eduardo E. Arriaga,Douglas L. Anderton,1993

Annual Report - Scripps Institution of Oceanography Scripps Institution of Oceanography, 1967

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