

# **EVENT HISTORY ANALYSIS**

**Regression for  
Longitudinal  
Event Data**

*PAUL D. ALLISON*

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# Event History Analysis Regression For Longitudinal Event Data

**Jane Elliott**



## **Event History Analysis Regression For Longitudinal Event Data:**

*Event History Analysis* Paul David Allison, 1984-11 Drawing on recent event history analytical methods from biostatistics engineering and sociology this clear and comprehensive monograph explains how longitudinal data can be used to study the causes of deaths crimes wars and many other human events Allison shows why ordinary multiple regression is not suited to analyze event history data and demonstrates how innovative regression like methods can overcome this problem He then discusses the particular new methods that social scientists should find useful *Event History and Survival Analysis* Paul D. Allison, 2014-02-19 Social scientists are interested in events and their causes Although event histories are ideal for studying the causes of events they typically possess two features censoring and time varying explanatory variables that create major problems for standard statistical procedures Several innovative approaches have been developed to accommodate these two peculiarities of event history data This volume surveys these methods concentrating on the approaches that are most useful to the social sciences In particular Paul D Allison focuses on regression methods in which the occurrence of events is dependent on one or more explanatory variables He gives attention to the statistical models that form the basis of event history analysis and also to practical concerns such as data management cost and useful computer software The Second Edition is part of SAGE's Quantitative Applications in the Social Sciences QASS series which continues to serve countless students instructors and researchers in learning the most cutting edge quantitative techniques **Event History Analysis** Hans-Peter Blossfeld, Alfred Hamerle, Karl Ulrich Mayer, 2014-02-24 Serving as both a student textbook and a professional reference handbook this volume explores the statistical methods of examining time intervals between successive state transitions or events Examples include survival rates of patients in medical studies unemployment periods in economic studies or the period of time it takes a criminal to break the law after his release in a criminological study The authors illustrate the entire research path required in the application of event history analysis from the initial problems of recording event oriented data to the specific questions of data organization to the concrete application of available program packages and the interpretation of the obtained results Event History Analysis makes didactically accessible the inclusion of covariates in semi parametric and parametric regression models based upon concrete examples presents the unabridged close relationship underlying statistical theory details parameter free methods of analysis of event history data and the possibilities of their graphical presentation discusses specific problems of multi state and multi episode models introduces time varying covariates and the question of unobserved population heterogeneity demonstrates through examples how to implement hypotheses tests and how to choose the right model **Event History Analysis With Stata** Hans-Peter Blossfeld, Katrin Golsch, Gotz Rohwer, 2007-02-02 Event History Analysis With Stata provides an introduction to event history modeling techniques using Stata version 9 a widely used statistical program that provides tools for data analysis The book emphasizes the usefulness of event history models for causal analysis in the social sciences and the application of continuous time models

T Event History Analysis in Life Course Research Karl Ulrich Mayer, Nancy Brandon Tuma, 1990 A compendium of studies drawn from an international conference this volume includes the newest and most substantive work on event history analysis Researchers at four institutions convened shared models of analysis and collected their findings for the first time The studies included represent work done in the following organizations The Max Planck Institute in West Germany The U S Social Science Research Council s Committee on Comparative Stratification The Special Research Unit of the Deutsche Forschungsgemeinschaft and MASO and informal German working group on mathematical sociology This book is one of twelve in the University of Wisconsin Press s Life Course Studies series arranged by the series editors David L Featherman and David I Kertzer

**Introducing Survival and Event History Analysis** Melinda Mills, 2011-01-19 This book is 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 the examples described in the text

**Techniques of Event History Modeling** Hans-Peter Blossfeld, Gtz Rohwer, 2001-09-01 Including new developments and publications which have appeared since the publication of the first edition in 1995 this second edition gives a comprehensive introductory account of event history modeling techniques and their use in applied research in economics and the social sciences demonstrates that event history modeling is a major step forward in causal analysis To do so the authors show that event history models employ the time path of changes in states and relate changes in causal variables in the past to changes in discrete outcomes in the future and introduces the reader to the computer program Transition Data Analysis TDA This software estimates the sort of models most frequently used with longitudinal data in particular discrete time and continuous time event history data Techniques of Event History Modeling can serve as a student textbook in the fields of statistics economics the social sciences psychology and the political sciences It can also be used as a reference for scientists in all fields of research

**Applied Latent Class Analysis** Jacques A. Hagenaars, Allan L. McCutcheon, 2002-06-24 Applied Latent Class Analysis introduces several innovations in latent class analysis to a wider audience of researchers Many of the world s leading innovators in the field of latent class analysis

contributed essays to this volume each presenting a key innovation to the basic latent class model and illustrating how it can prove useful in situations typically encountered in actual research      **Event History Modeling** Janet M.

Box-Steffensmeier,Bradford S. Jones,2004-03-29 Publisher Description      **New Methods for Social History** Larry J.

Griffin,Marcel van der Linden,1999-03-28 This 1999 collection introduces some of the most interesting new research methods for social historians      **Recurrent Events Data Analysis for Product Repairs, Disease Recurrences, and**

**Other Applications** Wayne B. Nelson,2003-01-01 Survival data consist of a single event for each population unit namely end of life which is modeled with a life distribution However many applications involve repeated events data where a unit may accumulate numerous events over time This applied book provides practitioners with basic nonparametric methods for such data      Mental Health Service Evaluation Helle Charlotte Knudsen,Graham Thornicroft,1996-03-14 A comprehensive international review providing guidance in appropriate research strategies for evaluation of mental health services

*Quantitative Methods in the Humanities* Claire Lemercier,Claire Zalc,2019-03-13 This timely and lucid guide is intended for students and scholars working on all historical periods and topics in the humanities and social sciences especially for those who do not think of themselves as experts in quantification big data or digital humanities The authors reveal quantification to be a powerful and versatile tool applicable to a myriad of materials from the past Their book accessible to complete beginners offers detailed advice and practical tips on how to build a dataset from historical sources and how to categorize it according to specific research questions Drawing on examples from works in social political economic and cultural history the book guides readers through a wide range of methods including sampling cross tabulations statistical tests regression factor analysis network analysis sequence analysis event history analysis geographical information systems text analysis and visualization The requirements advantages and pitfalls of these techniques are presented in layperson s terms avoiding mathematical terminology Conceived primarily for historians the book will prove invaluable to other humanists as well as to social scientists looking for a nontechnical introduction to quantitative methods Covering the most recent techniques in addition to others not often enough discussed the book will also have much to offer to the most seasoned practitioners of quantification

A Practical Guide to Using Panel Data Simonetta Longhi,Alita Nandi,2014-12-01 This timely thoughtful book provides a clear introduction to using panel data in research It describes the different types of panel datasets commonly used for empirical analysis and how to use them for cross sectional panel and event history analysis Longhi and Nandi then guide the reader through the data management and estimation process including the interpretation of the results and the preparation of the final output tables Using existing data sets and structured as hands on exercises each chapter engages with practical issues associated with using data in research These include Data cleaning Data preparation Computation of descriptive statistics Using sample weights Choosing and implementing the right estimator Interpreting results Preparing final output tables Graphical representation Written by experienced authors this exciting textbook provides

the practical tools needed to use panel data in research

### **Innovation Networks in the German Laser Industry**

Muhamed Kudic, 2014-11-08 Technological innovation is fundamental to firm performance and economic prosperity. The aim of this book is to contribute to an in-depth understanding of collective innovation processes by analyzing publicly funded R D cooperation and innovation networks in the German laser industry. Standing in a neo Schumpeterian tradition it employs interdisciplinary analytical concepts and draws upon a unique longitudinal dataset from the laser industry that covers more than two decades of observations. In brief, the book makes a valuable contribution by exploring how and why firm specific R D cooperation activities and network positions, large scale network patterns and evolutionary network change processes affect the innovative performance of laser source manufacturers in Germany.

### **Secondary Analysis of Survey Data**

K. Jill Kiecolt, Laura E. Nathan, 1985 This volume presents strategies for locating survey data and provides a comprehensive guide to US social science data archives describing several major data files. Although the data sets are American, the techniques are widely applicable.

Using Narrative in Social Research Jane Elliott, 2005-05-17 Jane Elliott's examination of the use of narrative within the broad context of social science inquiry is a must read for both qualitative and quantitative researchers, novice and expert alike. *Journal of Advanced Nursing* This important book does an impressive job of synthesising a complex literature and bringing together both qualitative and quantitative methods of narrative analysis. It will become a milestone in the development of narrative methods. Although ground breaking in many ways, it is very clearly written and accessible to readers from a wide variety of backgrounds and methodological experience. Nigel Gilbert, University of Surrey. An elegantly written, scholarly and accessible text. Jane Elliott shows a sophisticated appreciation of contemporary methodological developments and makes a persuasive case for the use of narrative approaches in both qualitative and quantitative research. The book challenges and advances debates about combining methods and shows how stories can work within and across conventional research boundaries. It is a truly original contribution to the literature. Amanda Coffey, Cardiff School of Social Sciences. An outstanding book. Jane Elliott breaks new ground by demonstrating to new generations of social scientists how the power of narrative can fruitfully be harnessed in social research. This is a must read book. Professor Mike Savage, University of Manchester. This is a lucid and accessible introduction to narrative methods in social research. It is also an important book about the nature, role and theoretical basis of research methodology in general. Jane Elliott instructs the reader on the basic methods and methodological assumptions that form the basis of narrative methods. She does so in a way that is practical and accessible and in a way that will make the book a favourite with students and experienced researchers alike. Elliott argues that both qualitative and quantitative methods are characterised by a concern with narrative and that our research data can best be analyzed if it is seen in narrative terms. In concrete, step by step terms, she details for the reader how to go about collecting data and how to subject that data to narrative analysis while at the same time placing this process in its wider theoretical context. She works across the traditional quantitative/qualitative divide to set out the ways in which

narrative researchers can uncover such issues as social change causality and social identity She also shows how the techniques and skills used by qualitative researchers can be deployed when doing quantitative research and similarly how qualitative researchers can sometimes profit from using quantitative skills and techniques This book provides both a fascinating and a challenging read What sets this text apart from other books on research methodology and methods is that it does not focus exclusively on either quantitative or qualitative research approaches but rather attempts to bridge the divide The book should be compulsory reading not only for those aspiring to undertake narrative research and those students undertaking higher degree research courses but also for those more experienced researches wishing to explore contemporary issues in research methods and methodology As a recent recruit to a lecturer practitioner post with little recent experience in the subject area covered by this book I found it met my needs very well I would certainly recommend this book for purchase Dr Andrew Pettipher University of Nottingham UK

**International Business: Joint ventures and modes of entry** Alan M. Rugman, 2002 This comprehensive four volume set includes all major contributions to the field of international business It also includes key writings in the areas of international political economy and on regional and national issues

The Third Sector, Social Enterprise and Public Service Delivery Madeline Powell, Frances Stokes Berry, 2024-02-01 Social enterprises are businesses with primarily social or environmental purposes designed to create value for the clients of the business and to reinvest surpluses into the business or community They serve as social innovation laboratories and frequently collaborate with governments or other nonprofits to serve their communities and clientele The chapters in this book discuss the development and flourishing of social enterprises in eight countries around the world including China India Great Britain the United States and the Czech Republic Specifically the authors cover how social enterprises are managed how they operate with their national and local governments and the contributions they are making to service delivery and social innovation Different theoretical lenses are used to assess the roles that social enterprises play in the different countries and how they relate both to the nonprofit world and their governments This book will appeal to all students researchers and scholars who focus on the third sector social economy public policy and social enterprise as well as to intellectual social enterprise leaders and practitioners The chapters in this book were originally published as a special issue of Public Management Review

**The SAGE Handbook of Quantitative Methods in Psychology** Roger E Millsap, Alberto Maydeu-Olivares, 2009-07-23 I often wonder to myself whether the field needs another book handbook or encyclopedia on this topic In this case I think that the answer is truly yes The handbook is well focused on important issues in the field and the chapters are written by recognized authorities in their fields The book should appeal to anyone who wants an understanding of important topics that frequently go uncovered in graduate education in psychology David C Howell Professor Emeritus University of Vermont Quantitative psychology is arguably one of the oldest disciplines within the field of psychology and nearly all psychologists are exposed to quantitative psychology in some form While textbooks in statistics

research methods and psychological measurement exist none offer a unified treatment of quantitative psychology The SAGE Handbook of Quantitative Methods in Psychology does just that Each chapter covers a methodological topic with equal attention paid to established theory and the challenges facing methodologists as they address new research questions using that particular methodology The reader will come away from each chapter with a greater understanding of the methodology being addressed as well as an understanding of the directions for future developments within that methodological area Drawing on a global scholarship the Handbook is divided into seven parts Part One Design and Inference addresses issues in the inference of causal relations from experimental and non experimental research along with the design of true experiments and quasi experiments and the problem of missing data due to various influences such as attrition or non compliance Part Two Measurement Theory begins with a chapter on classical test theory followed by the common factor analysis model as a model for psychological measurement The models for continuous latent variables in item response theory are covered next followed by a chapter on discrete latent variable models as represented in latent class analysis Part Three Scaling Methods covers metric and non metric scaling methods as developed in multidimensional scaling followed by consideration of the scaling of discrete measures as found in dual scaling and correspondence analysis Models for preference data such as those found in random utility theory are covered next Part Four Data Analysis includes chapters on regression models categorical data analysis multilevel or hierarchical models resampling methods robust data analysis meta analysis Bayesian data analysis and cluster analysis Part Five Structural Equation Models addresses topics in general structural equation modeling nonlinear structural equation models mixture models and multilevel structural equation models Part Six Longitudinal Models covers the analysis of longitudinal data via mixed modeling time series analysis and event history analysis Part Seven Specialized Models covers specific topics including the analysis of neuro imaging data and functional data analysis



## **Event History Analysis Regression For Longitudinal Event Data** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has been evident than ever. They have the capability to inspire, provoke, and ignite change. Such could be the essence of the book **Event History Analysis Regression For Longitudinal Event Data**, a literary masterpiece that delves deep in to the significance of words and their effect on our lives. Published 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 will explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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