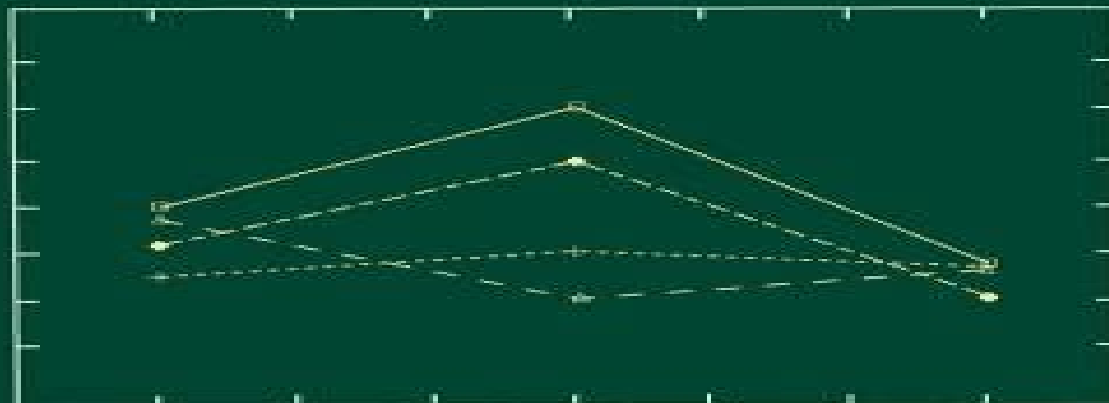


SPRINGER TEXTS IN STATISTICS

Ronald Christensen

Log-Linear Models *and* Logistic Regression

Second Edition



Springer

Log Linear Models And Logistic Regression Springer Texts In Statistics

Jeffrey S. Simonoff



Log Linear Models And Logistic Regression Springer Texts In Statistics:

Log-Linear Models Ronald Christensen, 2013-12-14 This book examines log linear models for contingency tables Logistic regression and logistic discrimination are treated as special cases and generalized linear models in the GLIM sense are also discussed The book is designed to fill a niche between basic introductory books such as Fienberg 1980 and Everitt 1977 and advanced books such as Bishop Fienberg and Holland 1975 Haberman 1974 and Santner and Duffy 1989 It is primarily directed at advanced Masters degree students in Statistics but it can be used at both higher and lower levels The primary theme of the book is using previous knowledge of analysis of variance and regression to motivate and explicate the use of log linear models Of course both the analogies and the distinctions between the different methods must be kept in mind The book is written at several levels A basic introductory course would take material from Chapters I II deemphasizing Section II 4 III Sections IV 1 through IV 5 eliminating the material on graphical models Section IV 1 Chapter VII and Chapter IX The advanced modeling material at the end of Sections VII 1 VII 2 and possibly the material in Section IX 2 should be deleted in a basic introductory course For Masters degree students in Statistics all the material in Chapters I through V VII IX and X should be accessible For an applied Ph D

Log-Linear Models and Logistic Regression Ronald Christensen, 2025-05-19 This book examines statistical models for frequency data The primary focus is on log linear models for contingency tables but also includes extensive discussion of logistic regression Topics such as logistic discrimination generalized linear models and correspondence analysis are also explored The treatment is designed for readers with prior knowledge of analysis of variance and regression It builds upon the relationships between these basic models for continuous data and the analogous log linear and logistic regression models for discrete data While emphasizing similarities between methods for discrete and continuous data this book also carefully examines the differences in model interpretations and evaluation that occur due to the discrete nature of the data Numerous data sets from fields as diverse as engineering education sociology and medicine are used to illustrate procedures and provide exercises A major addition to the third edition is the availability of a companion online manual providing R code for the procedures illustrated in the book The book begins with an extensive discussion of odds and odds ratios as well as concrete illustrations of basic independence models for contingency tables After developing a sound applied and theoretical basis for frequency models analogous to ANOVA and regression the book presents for contingency tables detailed discussions of the use of graphical models of model selection procedures and of models with quantitative factors It then explores generalized linear models after which all the fundamental results are reexamined using powerful matrix methods The book then gives an extensive treatment of Bayesian procedures for analyzing logistic regression and other regression models for binomial data Bayesian methods are conceptually simple and unlike traditional methods allow accurate conclusions to be drawn without requiring large sample sizes The book concludes with two new chapters one on exact conditional tests for small sample sizes and another on the graphical procedure known as correspondence analysis

Log-Linear Models and Logistic Regression Ronald Christensen, 2013-03-08 The primary focus here is on log linear models for contingency tables but in this second edition greater emphasis has been placed on logistic regression The book explores topics such as logistic discrimination and generalised linear models and builds upon the relationships between these basic models for continuous data and the analogous log linear and logistic regression models for discrete data It also carefully examines the differences in model interpretations and evaluations that occur due to the discrete nature of the data Sample commands are given for analyses in SAS, BMFP and GLIM while numerous data sets from fields as diverse as engineering, education, sociology and medicine are used to illustrate procedures and provide exercises Throughout the book the treatment is designed for students with prior knowledge of analysis of variance and regression

Plane Answers to Complex Questions Ronald Christensen, 2013-03-09 The third edition of Plane Answers includes fundamental changes in how some aspects of the theory are handled Chapter 1 includes a new section that introduces generalized linear models Primarily this provides a definition so as to allow comments on how aspects of linear model theory extend to generalized linear models For years I have been unhappy with the concept of estimability Just because you cannot get a linear unbiased estimate of something does not mean you cannot estimate it For example it is obvious how to estimate the ratio of two contrasts in an ANOVA just estimate each one and take their ratio The real issue is that if the model matrix X is not of full rank the parameters are not identifiable Section 2.1 now introduces the concept of identifiability and treats estimability as a special case of identifiability This change also resulted in some minor changes in Section 2.2 In the second edition Appendix F presented an alternative approach to dealing with linear parametric constraints In this edition I have used the new approach in Section 3.3 I think that both the new approach and the old approach have virtues so I have left a fair amount of the old approach intact Chapter 8 contains a new section with a theoretical discussion of models for factorial treatment structures and the introduction of special models for homologous factors This is closely related to the changes in Section 3.3

Statistical Regression and Classification Norman Matloff, 2017-09-19 This text provides a modern introduction to regression and classification with an emphasis on big data and R Each chapter is partitioned into a main body section and an extras section The main body uses math/stat very sparingly and always in the context of something concrete which means that readers can skip the math/stat content entirely if they wish The extras section is for those who feel comfortable with analysis using math/stat

Recent Advances and Future Directions in Causality, Prediction, and Specification Analysis Xiaohong Chen, Norman R. Swanson, 2012-08-01 This book is a collection of articles that present the most recent cutting edge results on specification and estimation of economic models written by a number of the world's foremost leaders in the fields of theoretical and methodological econometrics Recent advances in asymptotic approximation theory including the use of higher order asymptotics for things like estimator bias correction and the use of various expansion and other theoretical tools for the development of bootstrap techniques designed for implementation when carrying out inference are

at the forefront of theoretical development in the field of econometrics One important feature of these advances in the theory of econometrics is that they are being seamlessly and almost immediately incorporated into the empirical toolbox that applied practitioners use when actually constructing models using data for the purposes of both prediction and policy analysis and the more theoretically targeted chapters in the book will discuss these developments Turning now to empirical methodology chapters on prediction methodology will focus on macroeconomic and financial applications such as the construction of diffusion index models for forecasting with very large numbers of variables and the construction of data samples that result in optimal predictive accuracy tests when comparing alternative prediction models Chapters carefully outline how applied practitioners can correctly implement the latest theoretical refinements in model specification in order to build the best models using large scale and traditional datasets making the book of interest to a broad readership of economists from theoretical econometricians to applied economic practitioners

Probability and Statistics for Data Science Norman Matloff, 2019-06-21 Probability and Statistics for Data Science Math R Data covers math stat distributions expected value estimation etc but takes the phrase Data Science in the title quite seriously Real datasets are used extensively All data analysis is supported by R coding Includes many Data Science applications such as PCA mixture distributions random graph models Hidden Markov models linear and logistic regression and neural networks Leads the student to think critically about the how and why of statistics and to see the big picture Not theorem proof oriented but concepts and models are stated in a mathematically precise manner Prerequisites are calculus some matrix algebra and some experience in programming Norman Matloff is a professor of computer science at the University of California Davis and was formerly a statistics professor there He is on the editorial boards of the Journal of Statistical Software and The R Journal His book Statistical Regression and Classification From Linear Models to Machine Learning was the recipient of the Ziegel Award for the best book reviewed in Technometrics in 2017 He is a recipient of his university's Distinguished Teaching Award

Lectures on Algebraic Statistics Mathias Drton, Bernd Sturmfels, Seth Sullivant, 2009-04-25 How does an algebraic geometer studying secant varieties further the understanding of hypothesis tests in statistics Why would a statistician working on factor analysis raise open problems about determinantal varieties Connections of this type are at the heart of the new field of algebraic statistics In this field mathematicians and statisticians come together to solve statistical inference problems using concepts from algebraic geometry as well as related computational and combinatorial techniques The goal of these lectures is to introduce newcomers from the different camps to algebraic statistics The introduction will be centered around the following three observations many important statistical models correspond to algebraic or semi algebraic sets of parameters the geometry of these parameter spaces determines the behaviour of widely used statistical inference procedures computational algebraic geometry can be used to study parameter spaces and other features of statistical models

Advanced Linear Modeling Ronald Christensen, 2013-03-14 This is the second edition of Linear Models for Multivariate

Time Series and Spatial Data It has a new title to indicate that it contains much new material The primary changes are the addition of two new chapters one on nonparametric regression and one on response surface maximization As before the presentations focus on the linear model aspects of the subject For example in the nonparametric regression chapter there is very little about kernel regression estimation but quite a bit about series approximations splines and regression trees all of which can be viewed as linear modeling The new edition also includes various smaller changes Of particular note are a subsection in Chapter 1 on modeling longitudinal repeated measures data and a section in Chapter 6 on covariance structures for spatial lattice data I would like to thank Dale Zimmerman for the suggestion of incorporating material on spatial lattices Another change is that the subject index is now entirely alphabetical

Advances In Doctoral Research In Management Graeme Hutcheson, Paulo Rita, Luiz Moutinho, 2006-07-18 Within the academic realm doctoral research plays a vital role in the advancement of knowledge In areas ranging from strategy and international business to marketing finance and operations management the contributions in this volume represent the very best in doctoral research in the field of management worldwide This first book in the Advances in Doctoral Research in Management series includes both doctoral research papers and a section on doctoral research notes consisting of shorter versions of extended monographs There is also a section on research methodology papers that builds awareness and provides applications of new methodological concepts techniques and tools

Categorical and Nonparametric Data Analysis E. Michael Nussbaum, 2024-05-30 Now in its second edition this book provides a focused comprehensive overview of both categorical and nonparametric statistics offering a conceptual framework for choosing the most appropriate test in various scenarios The book's clear explanations and Exploring the Concept boxes help reduce reader anxiety Problems inspired by actual studies provide meaningful illustrations of these techniques Basic statistics and probability are reviewed for those needing a refresher with mathematical derivations placed in optional appendices Highlights include the following Three chapters co-authored with Edgar Brunner address modern nonparametric techniques along with accompanying R code Unique coverage of both categorical and nonparametric statistics better prepares readers to select the best technique for particular research projects Designed to be used with most statistical packages clear examples of how to use the tests in SPSS R and Excel foster conceptual understanding Exploring the Concept boxes integrated throughout prompt students to draw links between the concepts to deepen understanding Fully developed Instructor and Student Resources featuring datasets for the book's problems and a guide to R and for the instructor PowerPoints author's syllabus and answers to even numbered problems Intended for graduate or advanced undergraduate courses in categorical and nonparametric statistics taught in psychology education human development sociology political science and other social and life sciences

Linear Models for Multivariate, Time Series, and Spatial Data Ronald Christensen, 1991 A companion volume to Plane answers to complex questions the theory of linear models 1987 presenting six chapters with shallow treatments of very broad topics showing how the

properties of three fundamental ideas from standard linear model theory can be used to examine multivariate time series

Analyzing Categorical Data Jeffrey S. Simonoff, 2013-06-05 Categorical data arise often in many fields including biometrics economics management manufacturing marketing psychology and sociology This book provides an introduction to the analysis of such data The coverage is broad using the loglinear Poisson regression model and logistic binomial regression models as the primary engines for methodology Topics covered include count regression models such as Poisson negative binomial zero inflated and zero truncated models loglinear models for two dimensional and multidimensional contingency tables including for square tables and tables with ordered categories and regression models for two category binary and multiple category target variables such as logistic and proportional odds models All methods are illustrated with analyses of real data examples many from recent subject area journal articles These analyses are highlighted in the text and are more detailed than is typical providing discussion of the context and background of the problem model checking and scientific implications More than 200 exercises are provided many also based on recent subject area literature Data sets and computer code are available at a web site devoted to the text Adopters of this book may request a solutions manual from textbook springer ny com From the reviews Jeff Simonoff's book is at the top of the heap of categorical data analysis textbooks The examples are superb Student reactions in a class I taught from this text were uniformly positive particularly because of the examples and exercises Additional materials related to the book particularly code for S Plus SAS and R useful for analysis of examples can be found at the author's Web site at New York University I liked this book for this reason and recommend it to you for pedagogical purposes Stanley Wasserman The American Statistician August 2006 Vol 60 No 3 The book has various noteworthy features The examples used are from a variety of topics including medicine economics sports mining weather as well as social aspects like needle exchange programs The examples motivate the theory and also illustrate nuances of data analytical procedures The book also incorporates several newer methods for analyzing categorical data including zero inflated Poisson models robust analysis of binomial and poisson models sandwich estimators multinomial smoothing ordinal agreement tables this is definitely a good reference book for any researcher working with categorical data Technometrics May 2004 This guide provides a practical approach to the appropriate analysis of categorical data and would be a suitable purchase for individuals with varying levels of statistical understanding Paediatric and Perinatal Epidemiology 2004 18 This book gives a fresh approach to the topic of categorical data analysis The presentation of the statistical methods exploits the connection to regression modeling with a focus on practical features rather than formal theory There is much to learn from this book Aside from the ordinary materials such as association diagrams Mantel Haenszel estimators or overdispersion the reader will also find some less often presented but interesting and stimulating topics This is an excellent book giving an up to date introduction to the wide field of analyzing categorical data Biometrics September 2004 It is of great help to data analysts practitioners and researchers who deal with categorical data and need to get a necessary insight into the methods of

analysis as well as practical guidelines for solving problems International Journal of General Systems August 2004 The author has succeeded in writing a useful and readable textbook combining most of general theory and practice of count data Kwantitatieve Methoden The book especially stresses how to analyze and interpret data In fact the highly detailed multi page descriptions of analysis and interpretation make the book stand out Mathematical Geology February 2005 Overall this is a competent and detailed text that I would recommend to anyone dealing with the analysis of categorical data Journal of the Royal Statistical Society This important work allows for clear analogies between the well known linear models for Gaussian data and categorical data problems Jeffrey Simonoff s Analyzing Categorical Data provides an introduction to many of the important ideas and methods for understanding counted data and tables of counts Some readers will find Simonoff s style very much to their liking due to reliance on extended real data examples to illuminate ideas I think the extensive examples will appeal to most students Sanford Weisberg SIAM Review Vol 47 4 2005 It is clear that the focus of Simonoff s book is different from other books on categorical data analysis As an introductory textbook the book is comprehensive enough since all basic topics in categorical data analysis are discussed I think Simonoff s book is a valuable addition to the literature because it discusses important models for counts Jeroen K Vermunt Statistics in Medicine Vol 24 2005 The author based this book on his notes for a class with a very diverse pool of students The material is presented in such a way that a very heterogeneous group of students could grasp it All methods are illustrated with analyses of real data examples The author provides a detailed discussion of the context and background of the problem The book is very interesting and can be warmly recommended to people working with categorical data EMS European Mathematical Society Newsletter December 2004 Categorical data arise often in many fields This book provides an introduction to the analysis of such data All methods are illustrated with analyses of real data examples many from recent subject area journal articles These analyses are highlighted in the text and are more detailed than is typical More than 200 exercises are provided including many based on recent subject area literature Data sets and computer code are available at a Web site devoted to this text T Postelnicu Zentralblatt MATH Vol 1028 2003 This book grew out of notes prepared by the author for classes in categorical data analysis The presentation is fresh and compelling to read Regression ideas are used to motivate the modelling presented The book focuses on applying methods to real problems many of these will be novel to readers of statistics texts All chapters end with a section providing references to books or articles for the inquiring reader C M O'Brien Short Book Reviews Vol 23 3 2003

An Introduction to Bayesian Analysis Jayanta K. Ghosh, Mohan Delampady, Tapas Samanta, 2007-07-03 Though there are many recent additions to graduate level introductory books on Bayesian analysis none has quite our blend of theory methods and applications We believe a beginning graduate student taking a Bayesian course or just trying to find out what it means to be a Bayesian ought to have some familiarity with all three aspects More specialization can come later Each of us has taught a course like this at Indian Statistical Institute or Purdue In fact at least partly the book grew out of those courses We

would also like to refer to the review Ghosh and Samanta 2002b that first made us think of writing a book The book contains somewhat more material than can be covered in a single semester We have done this intentionally so that an instructor has some choice as to what to cover as well as which of the three aspects to emphasize Such a choice is essential for the instructor The topics include several results or methods that have not appeared in a graduate text before In fact the book can be used also as a second course in Bayesian analysis if the instructor supplies more details Chapter 1 provides a quick review of classical statistical inference Some knowledge of this is assumed when we compare different paradigms Following this an introduction to Bayesian inference is given in Chapter 2 emphasizing the need for the Bayesian approach to statistics

Regression Analysis Ashish Sen, Muni Srivastava, 2012-12-06 Any method of fitting equations to data may be called regression Such equations are valuable for at least two purposes making predictions and judging the strength of relationships Because they provide a way of empirically identifying how a variable is affected by other variables regression methods have become essential in a wide range of fields including the social sciences engineering medical research and business Of the various methods of performing regression least squares is the most widely used In fact linear least squares regression is by far the most widely used of any statistical technique Although nonlinear least squares is covered in an appendix this book is mainly about linear least squares applied to fit a single equation as opposed to a system of equations The writing of this book started in 1982 Since then various drafts have been used at the University of Toronto for teaching a semester long course to juniors seniors and graduate students in a number of fields including statistics pharmacology engineering economics forestry and the behavioral sciences Parts of the book have also been used in a quarter long course given to Master's and Ph.D. students in public administration urban planning and engineering at the University of Illinois at Chicago UIC This experience and the comments and criticisms from students helped forge the final version

A First Course in Multivariate Statistics Bernard Flury, 2013-03-09 My goal in writing this book has been to provide teachers and students of multivariate statistics with a unified treatment of both theoretical and practical aspects of this fascinating area The text is designed for a broad readership including advanced undergraduate students and graduate students in statistics graduate students in biology anthropology life sciences and other areas and postgraduate students The style of this book reflects my belief that the common distinction between multivariate statistical theory and multivariate methods is artificial and should be abandoned I hope that readers who are mostly interested in practical applications will find the theory accessible and interesting Similarly I hope to show to more mathematically interested students that multivariate statistical modelling is much more than applying formulas to data sets The text covers mostly parametric models but gives brief introductions to computer intensive methods such as the bootstrap and randomization tests as well The selection of material reflects my own preferences and views My principle in writing this text has been to restrict the presentation to relatively few topics but cover these in detail This should allow the student to study an area deeply enough to feel comfortable with it and

to start reading more advanced books or articles on the same topic Advanced Studies in Classification and Data Science Tadashi Imaizumi, Akinori Okada, Sadaaki Miyamoto, Fumitake Sakaori, Yoshiro Yamamoto, Maurizio Vichi, 2020-09-25 This edited volume focuses on the latest developments in classification and data science and covers a wide range of topics in the context of data analysis and related areas e g the analysis of complex data analysis of qualitative data methods for high dimensional data dimensionality reduction data visualization multivariate statistical methods and various applications to real data in the social sciences medical sciences and other disciplines In addition to sharing theoretical and methodological findings the book shows how to apply the proposed methods to a variety of problems e g in consumer behavior decision making marketing data and social network structures Both methodological aspects and applications to a wide range of areas such as economics behavioral science marketing science management science and the social sciences are covered The book is chiefly intended for researchers and practitioners who are interested in the latest developments and practical applications in these fields as well as applied statisticians and data analysts Its combination of methodological advances with a wide range of real world applications gathered from several fields makes it of unique value in helping readers solve their research problems Statistics for Bioengineering Sciences Brani Vidakovic, 2011-08-04 Through its scope and depth of coverage this book addresses the needs of the vibrant and rapidly growing engineering fields bioengineering and biomedical engineering while implementing software that engineers are familiar with The author integrates introductory statistics for engineers and introductory biostatistics as a single textbook heavily oriented to computation and hands on approaches For example topics ranging from the aspects of disease and device testing Sensitivity Specificity and ROC curves Epidemiological Risk Theory Survival Analysis or Logistic and Poisson Regressions are covered In addition to the synergy of engineering and biostatistical approaches the novelty of this book is in the substantial coverage of Bayesian approaches to statistical inference Many examples in this text are solved using both the traditional and Bayesian methods and the results are compared and commented *Introduction to Graphical Modelling* David Edwards, 2012-12-06 Graphic modelling is a form of multivariate analysis that uses graphs to represent models These graphs display the structure of dependencies both associational and causal between the variables in the model This textbook provides an introduction to graphical modelling with emphasis on applications and practicalities rather than on a formal development It is based on the popular software package for graphical modelling MIM a freeware version of which can be downloaded from the Internet Following an introductory chapter which sets the scene and describes some of the basic ideas of graphical modelling subsequent chapters describe particular families of models including log linear models Gaussian models and models for mixed discrete and continuous variables Further chapters cover hypothesis testing and model selection Chapters 7 and 8 are new to the second edition Chapter 7 describes the use of directed graphs chain graphs and other graphs Chapter 8 summarizes some recent work on causal inference relevant when graphical models are given a causal interpretation This book will provide a useful introduction to this topic for

students and researchers **Mathematical Statistics** George R. Terrell, 2006-04-06 This textbook introduces the mathematical concepts and methods that underlie statistics The course is unified in the sense that no prior knowledge of probability theory is assumed being developed as needed The book is committed to both a high level of mathematical seriousness and to an intimate connection with application In its teaching style the book is mathematically complete concrete constructive active The text is aimed at the upper undergraduate or the beginning Masters program level It assumes the usual two year college mathematics sequence including an introduction to multiple integrals matrix algebra and infinite series

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