

Texts in Statistical Science

Analysis of Categorical Data with R

Second Edition



Christopher R. Bilder
Thomas M. Loughin

A Chapman & Hall Book

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An Introduction To Categorical Data Analysis Using R

A Gutmann



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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

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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

Analysis of Ordinal Categorical Data Alan Agresti, 2012-07-02 Statistical science's first coordinated manual of methods for analyzing ordered categorical data now fully revised and updated continues to present applications and case studies in fields as diverse as sociology public health ecology marketing and pharmacy Analysis of Ordinal Categorical Data Second Edition provides an introduction to basic descriptive and inferential methods for categorical data giving thorough coverage of new developments and recent methods Special emphasis is placed on interpretation and application of methods including an integrated comparison of the available strategies for analyzing ordinal data Practitioners of statistics in government industry particularly pharmaceutical and academia will want this new edition

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An Introduction to Categorical Data Analysis Alan Agresti, 2007-03-23 Praise for the First Edition This is a superb text from which to teach categorical data analysis at a variety of levels t his book can be very highly recommended Short Book Reviews Of great interest to potential readers is the variety of fields that are represented in the examples health care financial government product marketing and sports to name a few Journal of Quality Technology Alan Agresti has written another brilliant account of the analysis of categorical data The Statistician The use of statistical methods for categorical data is ever increasing in today s world An Introduction to Categorical Data Analysis Second Edition provides an applied introduction to the most important methods for analyzing categorical data This new edition summarizes methods that have long played a prominent role in data analysis such as chi squared tests and also places special emphasis on logistic regression and other modeling techniques for univariate and correlated multivariate categorical responses This Second Edition features Two new chapters on the methods for clustered data with an emphasis on generalized estimating equations GEE and random effects models A unified perspective based on generalized linear models An emphasis on logistic regression modeling An appendix that demonstrates the use of SAS r for all methods An entertaining historical perspective on the development of the methods Specialized methods for ordinal data small samples multicategory data and matched pairs More than 100 analyses of real data sets and nearly 300 exercises Written in an applied nontechnical style the book illustrates methods using a wide variety of real data including medical clinical trials drug use by teenagers basketball shooting horseshoe crab mating environmental opinions correlates of happiness and much more An Introduction to Categorical Data Analysis Second Edition is an invaluable tool for social behavioral and biomedical scientists as well as researchers in public health marketing education biological and agricultural sciences and industrial quality control

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[Python for Marketing Research and Analytics](#) Jason S. Schwarz, Chris Chapman, Elea McDonnell Feit, 2020-11-03 This book provides an introduction to quantitative marketing with Python The book presents a hands on approach to using Python for real marketing questions organized by key topic areas Following the Python scientific computing movement toward reproducible research the book presents all analyses in Colab notebooks which integrate code figures tables and annotation in a single file The code notebooks for each chapter may be copied adapted and reused in one s own analyses The book also introduces the usage of machine learning predictive models using the Python sklearn package in the context of marketing research This book is designed for three groups of readers experienced marketing researchers who wish to learn to program in Python coming from tools and languages such as R SAS or SPSS analysts or students who already program in Python and wish to learn about marketing applications and

undergraduate or graduate marketing students with little or no programming background It presumes only an introductory level of familiarity with formal statistics and contains a minimum of mathematics

Discrete Data Analysis with R Michael Friendly, David Meyer, 2015-12-16 An Applied Treatment of Modern Graphical Methods for Analyzing Categorical Data Discrete Data Analysis with R Visualization and Modeling Techniques for Categorical and Count Data presents an applied treatment of modern methods for the analysis of categorical data both discrete response data and frequency data It explains how to use graphical meth

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Categorical Data Analysis and Multilevel Modeling Using R Xing Liu, 2022-02-25 Categorical Data Analysis and Multilevel Modeling Using R provides a practical guide to regression techniques for analyzing binary ordinal nominal and count response variables using the R software Author Xing Liu offers a unified framework for both single level and multilevel modeling of categorical and count response variables with both frequentist and Bayesian approaches Each chapter demonstrates how to conduct the analysis using R how to interpret the models and how to present the results for publication A companion website for this book contains datasets and R commands used in the book for students and solutions for the end of chapter exercises on the instructor site

[Handbook of Psychology, Research Methods in Psychology](#) Irving B. Weiner, John A. Schinka, Wayne F. Velicer, 2012-10-23 Psychology is of interest to academics from many fields as well as to the thousands of academic and clinical psychologists and general public who can't help but be interested in learning more about why humans think and behave as they do This award winning twelve volume reference covers every aspect of the ever fascinating discipline of psychology and represents the most current knowledge in the field This ten year revision now covers discoveries based in neuroscience clinical psychology's new interest in evidence based practice and mindfulness and new findings in social developmental and forensic psychology

Medical Statistics Jennifer Peat, Belinda Barton, 2008-04-15 Holistic approach to understanding medical statistics This hands on guide is much more than a basic medical statistics introduction It equips you with the statistical tools required for evidence based clinical research Each chapter provides a

clear step by step guide to each statistical test with practical instructions on how to generate and interpret the numbers and present the results as scientific tables or graphs Showing you how to analyse data with the help of data set examples Click here to download datasets select the correct statistics and report results for publication or presentation understand and critically appraise results reported in the literature Each statistical test is linked to the research question and the type of study design used There are also checklists for critically appraising the literature and web links to useful internet sites Clear and concise explanations combined with plenty of examples and tabulated explanations are based on the authors popular medical statistics courses Critical appraisal guidelines at the end of each chapter help the reader evaluate the statistical data in their particular contexts [Journal of the American Statistical Association](#) ,2008 **The Journal of Immunology** ,2007 *Scientific and Technical Books and Serials in Print* ,1989 **Current Index to Statistics, Applications, Methods and Theory** ,1998 The Current Index to Statistics CIS is a bibliographic index of publications in statistics probability and related fields [AMSTAT News](#) American Statistical Association,2004 *Multivariate Data Analysis with Readings* Joseph F. Hair,1992 Key terms what is multivariate analysis impact of computer revolution and multivariate analysis defined Multiple regression analysis multiple discriminant analysis and multivariate analysis of variance Canonical correlation analysis factor analysis cluster analysis multidimensional scaling conjoint analysis structural equation modeling a mathematical representation in LISREL notation Path analysis a method of computing structural coefficients Overall goodness of Fit measures for structural equation modeling Application of multivariate data analysis

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