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AN INTRODUCTION TO
**CATEGORICAL
DATA ANALYSIS**

THIRD EDITION



ALAN AGRESTI



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An Introduction To Categorical Data Analysis:

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Categorical Data Analysis Alan Agresti, 2013-04-08 Praise for the Second Edition A must have book for anyone expecting to do research and or applications in categorical data analysis. *Statistics in Medicine* It is a total delight reading this book. *Pharmaceutical Research* If you do any analysis of categorical data this is an essential desktop reference. *Technometrics* The use of statistical methods for analyzing categorical data has increased dramatically particularly in the biomedical social sciences and financial industries. Responding to new developments this book offers a comprehensive treatment of the most important methods for categorical data analysis. *Categorical Data Analysis* Third Edition summarizes the latest methods for univariate and correlated multivariate categorical responses. Readers will find a unified generalized linear models approach that connects logistic regression and Poisson and negative binomial loglinear models for discrete data with normal regression for continuous data. This edition also features An emphasis on logistic and probit regression methods for binary ordinal and nominal responses for independent observations and for clustered data with marginal models and random effects models. Two new chapters on alternative methods for binary response data including smoothing and regularization methods classification methods such as linear discriminant analysis and classification trees and cluster analysis. New sections introducing the Bayesian approach for methods in that chapter. More than 100 analyses of data sets and over 600 exercises. Notes at the end of each chapter that provide references to recent research and topics not covered in

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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 **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 *An Introduction to Categorical Data Analysis* A. Agresti, 1996 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

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Regression for Categorical Data Gerhard Tutz,2011-11-21 This book introduces basic and advanced concepts of categorical regression with a focus on the structuring constituents of regression including regularization techniques to structure predictors In addition to standard methods such as the logit and probit model and extensions to multivariate settings the author presents more recent developments in flexible and high dimensional regression which allow weakening of assumptions on the structuring of the predictor and yield fits that are closer to the data A generalized linear model is used as a unifying framework whenever possible in particular parametric models that are treated within this framework Many topics not normally included in books on categorical data analysis are treated here such as nonparametric regression selection of predictors by regularized estimation procedures ternative models like the hurdle model and zero inflated regression models for count data and non standard tree based ensemble methods The book is accompanied by an R package that contains data sets and code for all the examples

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Project-Based R Companion to Introductory Statistics Chelsea Myers,2020-12-22 Project Based R Companion to Introductory Statistics is envisioned as a companion to a traditional

statistics or biostatistics textbook with each chapter covering traditional topics such as descriptive statistics regression and hypothesis testing However unlike a traditional textbook each chapter will present its material using a complete step by step analysis of a real publicly available dataset with an emphasis on the practical skills of testing assumptions data exploration and forming conclusions The chapters in the main body of the book include a worked example showing the R code used at each step followed by a multi part project for students to complete These projects which could serve as alternatives to traditional discrete homework problems will illustrate how to put the pieces together and conduct a complete start to finish data analysis using the R statistical software package At the end of the book there are several projects that require the use of multiple statistical techniques that could be used as a take home final exam or final project for a class Key features of the text Organized in chapters focusing on the same topics found in typical introductory statistics textbooks descriptive statistics regression two way tables hypothesis testing for means and proportions etc so instructors can easily pair this supplementary material with course plans Includes student projects for each chapter which can be assigned as laboratory exercises or homework assignments to supplement traditional homework Features real world datasets from scientific publications in the fields of history pop culture business medicine and forensics for students to analyze Allows students to gain experience working through a variety of statistical analyses from start to finish The book is written at the undergraduate level to be used in an introductory statistical methods course or subject specific research methods course such as biostatistics or research methods for psychology or business analytics Author After a 10 year career as a research biostatistician in the Department of Ophthalmology and Visual Sciences at the University of Wisconsin Madison Chelsea Myers teaches statistics and biostatistics at Rollins College and Valencia College in Central Florida She has authored or co authored more than 30 scientific papers and presentations and is the creator of the MCAT preparation website MCATMath com *Journal of the American Statistical Association* ,2008 [Analysis of Categorical Data with R](#) Christopher R. Bilder,Thomas M. Loughin,2024-07-31 [Analysis of Categorical Data with R](#) Second Edition presents a modern account of categorical data analysis using the R software environment It covers recent techniques of model building and assessment for binary multicategory and count response variables and discusses fundamentals such as odds ratio and probability estimation The authors give detailed advice and guidelines on which procedures to use and why to use them The second edition is a substantial update of the first based on the authors experiences of teaching from the book for nearly a decade The book is organized as before but with new content throughout and there are two new substantive topics in the advanced topics chapter group testing and splines The computing has been completely updated with the emmeans package now integrated into the book The examples have also been updated notably to include new examples based on COVID 19 and there are more than 90 new exercises in the book The solutions manual and teaching videos have also been updated Features Requires no prior experience with R and offers an introduction to the essential features and functions of R Includes numerous examples from medicine psychology sports

ecology and many other areas Integrates extensive R code and output Graphically demonstrates many of the features and properties of various analysis methods Offers a substantial number of exercises in all chapters enabling use as a course text or for self study Supplemented by a website with data sets code and teaching videos Analysis of Categorical Data with R Second Edition is primarily designed for a course on categorical data analysis taught at the advanced undergraduate or graduate level Such a course could be taught in a statistics or biostatistics department or within mathematics psychology social science ecology or another quantitative discipline It could also be used by a self learner and would make an ideal reference for a researcher from any discipline where categorical data arise Categorical Data Analysis by Example Graham J. G. Upton, 2016-10-24 Introduces the key concepts in the analysis of categorical data with illustrative examples and accompanying R code This book is aimed at all those who wish to discover how to analyze categorical data without getting immersed in complicated mathematics and without needing to wade through a large amount of prose It is aimed at researchers with their own data ready to be analyzed and at students who would like an approachable alternative view of the subject Each new topic in categorical data analysis is illustrated with an example that readers can apply to their own sets of data In many cases R code is given and excerpts from the resulting output are presented In the context of log linear models for cross tabulations two specialties of the house have been included the use of cobweb diagrams to get visual information concerning significant interactions and a procedure for detecting outlier category combinations The R code used for these is available and may be freely adapted In addition this book Uses an example to illustrate each new topic in categorical data Provides a clear explanation of an important subject Is understandable to most readers with minimal statistical and mathematical backgrounds Contains examples that are accompanied by R code and resulting output Includes starred sections that provide more background details for interested readers Categorical Data Analysis by Example is a reference for students in statistics and researchers in other disciplines especially the social sciences who use categorical data This book is also a reference for practitioners in market research medicine and other fields **An Introduction to Probability and Statistics** Vijay K. Rohatgi, A. K. Md. Ehsanes Saleh, 2001 The second edition of a well received book that was published 24 years ago and continues to sell to this day An Introduction to Probability and Statistics is now revised to incorporate new information as well as substantial updates of existing material **A Course in Categorical Data Analysis** Thomas Leonard, 2020-08-26 Categorical data comprising counts of individuals objects or entities in different categories emerge frequently from many areas of study including medicine sociology geology and education They provide important statistical information that can lead to real life conclusions and the discovery of fresh knowledge Therefore the ability to manipulate understand and interpret categorical data becomes of interest if not essential to professionals and students in a broad range of disciplines Although t tests linear regression and analysis of variance are useful valid methods for analysis of measurement data categorical data requires a different methodology and techniques typically not encountered in introductory statistics

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