

INSTRUCTOR'S MANUAL
CATEGORICAL DATA ANALYSIS
Solutions to Selected Problems

Alan Agresti

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This manual contains solutions and hints to solutions for many of the exercises in *Categorical Data Analysis*, second edition, by Alan Agresti (John Wiley, & Sons, 2002). It is prepared for instructors who use this book as a course text. It should not be distributed elsewhere without permission of the author or of John Wiley & Sons.

Please report any errors in these solutions to the author (Dept. of Statistics, University of Florida, Gainesville, Florida 32611-8545, e-mail AAGSTAT.UFL.EDU), so they can be corrected in future revisions of the manual.

Chapter 1

1. a. nominal, b. ordinal, c. interval, d. nominal, e. ordinal, f. nominal, g. ordinal.
2. a. Binomial, $n = 100$, $\pi = .25$.
 b. The mean is $n\pi = 25$ and the standard deviation is $\sqrt{n\pi(1-\pi)} = 4.33$. Yes, 50 correct responses would be surprising, since 50 is $z = (50 - 25)/4.33 = 5.8$ standard deviations above the mean of a distribution that is approximately normal.
 c. Multinomial, $n = 100$, $\pi_1 = \dots = \pi_4 = 0.25$.
 d. $E(n_j) = n\pi_j = 25$, $\text{Var}(n_j) = n\pi_j(1 - \pi_j) = 100(.25)(.75) = 18.75$, $\text{Cov}(n_j, n_k) = -n\pi_j\pi_k = -100(.25)(.25) = -6.25$, $\text{Corr}(n_j, n_k) = -6.25/\sqrt{(18.75)(18.75)} = -.333$.
3. π varies from batch to batch, so the counts come from a mixture of binomials rather than a single $\text{Bin}(n, \pi)$. $\text{Var}(Y) = E[\text{Var}(Y | \pi)] + \text{Var}[E(Y | \pi)] > E[\text{Var}(Y | \pi)] = E[n\pi(1 - \pi)]$.
4. a. The geometric probability, $(5/6)^y$.
 b. Note that $Y = y$ when there are $y - 1$ successes and then a failure. The probability of a sequence of independent events is the product of the probabilities of the separate events. Thus, $p(y) = (5/6)^{y-1}(1/6)$, $y = 1, 2, \dots$
5. $\hat{\pi} = 842/1824 = .462$, so $z = (.462 - .5)/\sqrt{.5(.5)/1824} = -3.28$, for which $P = .001$ for $H_a: \pi \neq .5$. The 95% Wald CI is $.462 \pm 1.96\sqrt{.462(.538)/1824} = .462 \pm .023$, or $(.439, .485)$. The 95% score CI is also $(.439, .485)$.
- 6a. Expected frequency = 12.5 for each category. For the count of 0, $0 \log(0/12.5) = 0$, so result follows.
 b. Score statistic $z = (0 - .5)/\sqrt{.5(.5)/25} = -5.0$, so $z^2 = 25.0$.
 c. $z = (0 - .5)/\sqrt{0(1.0)/25} = -\infty$.
7. a. $h(\pi) = \pi^{20}$, so $\hat{\pi} = 1.0$.
 b. Wald statistic $z = (1.0 - .5)/\sqrt{1.0(0)/20} = \infty$. Wald CI is $1.0 \pm 1.96\sqrt{1.0(0)/20} = 1.0 \pm 0.0$, or $(1.0, 1.0)$.
 c. $z = (1.0 - .5)/\sqrt{.5(.5)/20} = 4.47$, $P < .0001$. Score CI is $(0.839, 1.000)$.
 d. Test statistic $2(20) \log(20/10) = 27.7$, $df = 1$. From problem 1.25a, the CI is $(\exp(1.96^2/40), 1) = (0.908, 1.0)$.
 e. P -value = $2(.5)^{20} = .00000191$. Clopper-Pearson CI is $(0.832, 1.000)$. CI using Baker method is $(0.840, 1.000)$.

Introduction To Categorical Data Analysis Solutions Manual

Alan Agresti



Introduction To Categorical Data Analysis Solutions Manual

An Introduction to Categorical Data Analysis Alan Agresti, 2018-10-11 A valuable new edition of a standard reference The use of statistical methods for categorical data has increased dramatically particularly for applications in the biomedical and social sciences An Introduction to Categorical Data Analysis Third Edition summarizes these methods and shows readers how to use them using software Readers will find a unified generalized linear models approach that connects logistic regression and loglinear models for discrete data with normal regression for continuous data Adding to the value in the new edition is Illustrations of the use of R software to perform all the analyses in the book A new chapter on alternative methods for categorical data including smoothing and regularization methods such as the lasso classification methods such as linear discriminant analysis and classification trees and cluster analysis New sections in many chapters introducing the Bayesian approach for the methods of that chapter More than 70 analyses of data sets to illustrate application of the methods and about 200 exercises many containing other data sets An appendix showing how to use SAS Stata and SPSS and an appendix with short solutions to most odd numbered exercises Written in an applied nontechnical style this book illustrates the methods using a wide variety of real data including medical clinical trials environmental questions drug use by teenagers horseshoe crab mating basketball shooting correlates of happiness and much more An Introduction to Categorical Data Analysis Third Edition is an invaluable tool for statisticians and biostatisticians as well as methodologists in the social and behavioral sciences medicine and public health marketing education and the biological and agricultural sciences

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Categorical Data Analysis Third Edition is an invaluable tool for statisticians and methodologists such as biostatisticians and researchers in the social and behavioral sciences medicine and public health marketing education finance biological and agricultural sciences and industrial quality control [R for Data Science](#) Hadley Wickham, Garrett Golemund, 2016-12-12 Learn how to use R to turn raw data into insight knowledge and understanding This book introduces you to R RStudio and the tidyverse a collection of R packages designed to work together to make data science fast fluent and fun Suitable for readers with no previous programming experience R for Data Science is designed to get you doing data science as quickly as possible Authors Hadley Wickham and Garrett Golemund guide you through the steps of importing wrangling exploring and modeling your data and communicating the results You ll get a complete big picture understanding of the data science cycle along with basic tools you need to manage the details Each section of the book is paired with exercises to help you practice what you ve learned along the way You ll learn how to Wrangle transform your datasets into a form convenient for analysis Program learn powerful R tools for solving data problems with greater clarity and ease Explore examine your data generate hypotheses and quickly test them Model provide a low dimensional summary that captures true signals in your dataset Communicate learn R Markdown for integrating prose code and results [Learning Statistics with R](#) Daniel Navarro, 2013-01-13 Learning Statistics with R covers the contents of an introductory statistics class as typically taught to undergraduate psychology students focusing on the use of the R statistical software and adopting a light conversational style throughout The book discusses how to get started in R and gives an introduction to data manipulation and writing scripts From a statistical perspective the book discusses descriptive statistics and graphing first followed by chapters on probability theory sampling and estimation and null hypothesis testing After introducing the theory the book covers the analysis of contingency tables t tests ANOVAs and regression Bayesian statistics are covered at the end of the book For more information and the opportunity to check the book out before you buy visit <http://ua.edu/au/ccs/teaching/lsr> or <http://learningstatisticswithr.com> [Introduction to Statistics and Data Analysis](#) Roxy Peck, Chris Olsen, Jay L. Devore, 2019 **Statistical Methods for Categorical Data Analysis** Daniel Powers, Yu

Xie,2008-11-13 This book provides a comprehensive introduction to methods and models for categorical data analysis and their applications in social science research Companion website also available at <https://web.space.utexas.edu/dpowers/www>

Fundamentals of Machine Learning for Predictive Data Analytics, second edition John D. Kelleher, Brian Mac Namee, Aoife D'Arcy, 2020-10-20 The second edition of a comprehensive introduction to machine learning approaches used in predictive data analytics covering both theory and practice Machine learning is often used to build predictive models by extracting patterns from large datasets These models are used in predictive data analytics applications including price prediction risk assessment predicting customer behavior and document classification This introductory textbook offers a detailed and focused treatment of the most important machine learning approaches used in predictive data analytics covering both theoretical concepts and practical applications Technical and mathematical material is augmented with explanatory worked examples and case studies illustrate the application of these models in the broader business context This second edition covers recent developments in machine learning especially in a new chapter on deep learning and two new chapters that go beyond predictive analytics to cover unsupervised learning and reinforcement learning

Introduction to Statistics and Data Analysis Christian Heumann, Michael Schomaker, Shalabh, 2023-01-30 Now in its second edition this introductory statistics textbook conveys the essential concepts and tools needed to develop and nurture statistical thinking It presents descriptive inductive and explorative statistical methods and guides the reader through the process of quantitative data analysis This revised and extended edition features new chapters on logistic regression simple random sampling including bootstrapping and causal inference The text is primarily intended for undergraduate students in disciplines such as business administration the social sciences medicine politics and macroeconomics It features a wealth of examples exercises and solutions with computer code in the statistical programming language R as well as supplementary material that will enable the reader to quickly adapt the methods to their own applications

Bayesian Data Analysis, Third Edition Andrew Gelman, John B. Carlin, Hal S. Stern, David B. Dunson, Aki Vehtari, Donald B. Rubin, 2013-11-01 Now in its third edition this classic book is widely considered the leading text on Bayesian methods lauded for its accessible practical approach to analyzing data and solving research problems Bayesian Data Analysis Third Edition continues to take an applied approach to analysis using up to date Bayesian methods The authors all leaders in the statistics community introduce basic concepts from a data analytic perspective before presenting advanced methods Throughout the text numerous worked examples drawn from real applications and research emphasize the use of Bayesian inference in practice New to the Third Edition Four new chapters on nonparametric modeling Coverage of weakly informative priors and boundary avoiding priors Updated discussion of cross validation and predictive information criteria Improved convergence monitoring and effective sample size calculations for iterative simulation Presentations of Hamiltonian Monte Carlo variational Bayes and expectation propagation New and revised software code The book can be used in three different ways For undergraduate students it introduces

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valuable overview of the most important ideas and results in statistical modeling Written by a highly experienced author Foundations of Linear and Generalized Linear Models is a clear and comprehensive guide to the key concepts and results of linear statistical models The book presents a broad in depth overview of the most commonly used statistical models by discussing the theory underlying the models R software applications and examples with crafted models to elucidate key ideas and promote practical modelbuilding The book begins by illustrating the fundamentals of linear models such as how the model fitting projects the data onto a model vector subspace and how orthogonal decompositions of the data yield information about the effects of explanatory variables Subsequently the book covers the most popular generalized linear models which include binomial and multinomial logistic regression for categorical data and Poisson and negative binomial loglinear models for count data Focusing on the theoretical underpinnings of these models Foundations of Linear and Generalized Linear Models also features An introduction to quasi likelihood methods that require weaker distributional assumptions such as generalized estimating equation methods An overview of linear mixed models and generalized linear mixed models with random effects for clustered correlated data Bayesian modeling and extensions to handle problematic cases such as high dimensional problems Numerous examples that use R software for all text data analyses More than 400 exercises for readers to practice and extend the theory methods and data analysis A supplementary website with datasets for the examples and exercises An invaluable textbook for upper undergraduate and graduate level students in statistics and biostatistics courses Foundations of Linear and Generalized Linear Models is also an excellent reference for practicing statisticians and biostatisticians as well as anyone who is interested in learning about the most important statistical models for analyzing data **Statistics** Robin H. Lock,Patti Frazer Lock,Kari Lock Morgan,Eric F. Lock,Dennis F. Lock,2020-10-13

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with real world applications Students use simulation methods to effectively collect analyze and interpret data to draw conclusions Randomization and bootstrap interval methods introduce the fundamentals of statistical inference bringing concepts to life through authentically relevant examples More traditional methods like t tests chi square tests etc are introduced after students have developed a strong intuitive understanding of inference through randomization methods While any popular statistical software package may be used the authors have created StatKey to perform simulations using data sets and examples from the text A variety of videos activities and a modular chapter on probability are adaptable to many classroom formats and approaches

Mathematical Statistics and Data Analysis John A. Rice,2007 This is the first text in a generation to re examine the purpose of the mathematical statistics course The book s approach interweaves traditional topics with data analysis and reflects the use of the computer with close ties to the practice of statistics The author stresses analysis of data examines real problems with real data and motivates the theory The book s descriptive statistics graphical displays and realistic applications stand in strong contrast to traditional texts that are set in abstract settings

[Introduction to Data Science](#) Rafael A. Irizarry,2019-11-20 Introduction to Data Science Data Analysis and Prediction Algorithms with R introduces concepts and skills that can help you tackle real world data analysis challenges It covers concepts from probability statistical inference linear regression and machine learning It also helps you develop skills such as R programming data wrangling data visualization predictive algorithm building file organization with UNIX Linux shell version control with Git and GitHub and reproducible document preparation This book is a textbook for a first course in data science No previous knowledge of R is necessary although some experience with programming may be helpful The book is divided into six parts R data visualization statistics with R data wrangling machine learning and productivity tools Each part has several chapters meant to be presented as one lecture The author uses motivating case studies that realistically mimic a data scientist s experience He starts by asking specific questions and answers these through data analysis so concepts are learned as a means to answering the questions Examples of the case studies included are US murder rates by state self reported student heights trends in world health and economics the impact of vaccines on infectious disease rates the financial crisis of 2007 2008 election forecasting building a baseball team image processing of hand written digits and movie recommendation systems The statistical concepts used to answer the case study questions are only briefly introduced so complementing with a probability and statistics textbook is highly recommended for in depth understanding of these concepts If you read and understand the chapters and complete the exercises you will be prepared to learn the more advanced concepts and skills needed to become an expert

OpenIntro Statistics David Diez,Christopher Barr,Mine Çetinkaya-Rundel,2015-07-02 The OpenIntro project was founded in 2009 to improve the quality and availability of education by producing exceptional books and teaching tools that are free to use and easy to modify We feature real data whenever possible and files for the entire textbook are freely available at openintro.org Visit our website openintro.org We provide free

videos statistical software labs lecture slides course management tools and many other helpful resources

Using R for Introductory Statistics John Verzani, 2018-10-03 The second edition of a bestselling textbook *Using R for Introductory Statistics* guides students through the basics of R helping them overcome the sometimes steep learning curve The author does this by breaking the material down into small task oriented steps The second edition maintains the features that made the first edition so popular while updating data examples and changes to R in line with the current version See What's New in the Second Edition Increased emphasis on more idiomatic R provides a grounding in the functionality of base R Discussions of the use of RStudio helps new R users avoid as many pitfalls as possible Use of knitr package makes code easier to read and therefore easier to reason about Additional information on computer intensive approaches motivates the traditional approach Updated examples and data make the information current and topical The book has an accompanying package *UsingR* available from CRAN R's repository of user contributed packages The package contains the data sets mentioned in the text data package *UsingR* answers to selected problems answers a few demonstrations demo the errata errata and sample code from the text The topics of this text line up closely with traditional teaching progression however the book also highlights computer intensive approaches to motivate the more traditional approach The authors emphasize realistic data and examples and rely on visualization techniques to gather insight They introduce statistics and R seamlessly giving students the tools they need to use R and the information they need to navigate the sometimes complex world of statistical computing

An Introduction to Statistical Learning Gareth James, Daniela Witten, Trevor Hastie, Robert Tibshirani, Jonathan Taylor, 2023-08-01 *An Introduction to Statistical Learning* provides an accessible overview of the field of statistical learning an essential toolset for making sense of the vast and complex data sets that have emerged in fields ranging from biology to finance marketing and astrophysics in the past twenty years This book presents some of the most important modeling and prediction techniques along with relevant applications Topics include linear regression classification resampling methods shrinkage approaches tree based methods support vector machines clustering deep learning survival analysis multiple testing and more Color graphics and real world examples are used to illustrate the methods presented This book is targeted at statisticians and non statisticians alike who wish to use cutting edge statistical learning techniques to analyze their data Four of the authors co wrote *An Introduction to Statistical Learning With Applications in R* ISLR which has become a mainstay of undergraduate and graduate classrooms worldwide as well as an important reference book for data scientists One of the keys to its success was that each chapter contains a tutorial on implementing the analyses and methods presented in the R scientific computing environment However in recent years Python has become a popular language for data science and there has been increasing demand for a Python based alternative to ISLR Hence this book ISLP covers the same materials as ISLR but with labs implemented in Python These labs will be useful both for Python novices as well as experienced users

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




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