

MAREK GIERLIŃSKI



UNDERSTANDING STATISTICAL ERROR

A PRIMER FOR BIOLOGISTS

WILEY Blackwell

Understanding Statistical Error Primer Biologists Ebook

Marek Gierlinski



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Understanding Statistical Error Marek Gierlinski, 2015-12-08 This accessible introductory textbook provides a straightforward practical explanation of how statistical analysis and error measurements should be applied in biological research *Understanding Statistical Error A Primer for Biologists* Introduces the essential topic of error analysis to biologists Contains mathematics at a level that all biologists can grasp Presents the formulas required to calculate each confidence interval for use in practice Is based on a successful series of lectures from the author's established course Assuming no prior knowledge of statistics this book covers the central topics needed for efficient data analysis ranging from probability distributions statistical estimators confidence intervals error propagation and uncertainties in linear regression to advice on how to use error bars in graphs properly Using simple mathematics all these topics are carefully explained and illustrated with figures and worked examples The emphasis throughout is on visual representation and on helping the reader to approach the analysis of experimental data with confidence This useful guide explains how to evaluate uncertainties of key parameters such as the mean median proportion and correlation coefficient Crucially the reader will also learn why

confidence intervals are important and how they compare against other measures of uncertainty Understanding Statistical Error A Primer for Biologists can be used both by students and researchers to deepen their knowledge and find practical formulae to carry out error analysis calculations It is a valuable guide for students experimental biologists and professional researchers in biology biostatistics computational biology cell and molecular biology ecology biological chemistry drug discovery biophysics as well as wider subjects within life sciences and any field where error analysis is required **Journal of the American Statistical Association** ,2006 **Choosing and Using Statistics** Calvin Dytham,2009-04-01 The first edition of this excellent handbook was extremely wellreceived by both students and lecturers alike It has helped to simplify the often complex and difficult task of choosing and using the right statistics package This is a book for any student or professional biologist who wants to process data using a statistical package on the computer to select appropriate methods and extract the important information from the often confusing output that is produced It is aimed primarily at undergraduates and masters students in the biological sciences who have to apply statistics in practical classes and projects Such users of statistics do not have to understand either how tests work or how to do the calculations and these aspects are not covered in the book The new edition has been updated to cover the very latest versions of the computer packages described expanded to include coverage for logistic regression a more detailed consideration of multivariate analysis data exploration and further examples of Principle Component Analysis and Discriminate Function Analysis are given New edition will use SPSS 10 0 Minitab 13 1 and Excel 2000 New simplified version of the Key and flow chart of decisions to reach simple statistical tests Section on multivariate techniques expanded to give further examples of PCA and DFA Aimed at students using statistics for projects and in practical classes Statistical jargon explained through an extensive glossary and key to symbols Stresses the importance of experimental design measurement of data and interpretation of results rather than an understanding of the statistical tests themselves **Statistics for Biology** Owen Neville Bishop,1983 Why use statistics Some terms Describing a distribution in mathematical terms Samples and populations Comparing the means of two samples Comparing three or more samples The correlation of two variables The chi squared test Planning experiments Statistics in action Another type of test Planning the analysis Practical statistics Using a calculator Using a microcomputer Statistical tables *Biostatistics* Brian Williams,2017-07-28 This book is a first course in statistics for students of biology Most of the examples have an ecological bias but illustrate principles which have direct relevance for biologists doing laboratory work The structured approach begins with basic concepts and progresses towards an appreciation of the needs and use of analysis of variance and regression and includes the use of computer statistical packages The work is clearly explained with worked examples of real life biological problems and should be suitable for undergraduate students engaged in quantitative biological work Biostatistics should give students a sound grasp of the key principles of biological statistics without overwhelming detail and should allow students to quickly apply techniques to their own work and data **An Introduction**

To Experimental Design And Statistics For Biology David Heath,1995-10-26 This illustrated textbook for biologists provides a refreshingly clear and authoritative introduction to the key ideas of sampling experimental design and statistical analysis The author presents statistical concepts through common sense non mathematical explanations and diagrams These are followed by the relevant formulae and illustrated by w Practical Statistics for Field Biology Jim Fowler,Lou Cohen,Philip Jarvis,2013-06-20 Provides an excellent introductory text for students on the principles and methods of statistical analysis in the life sciences helping them choose and analyse statistical tests for their own problems and present their findings An understanding of statistical principles and methods is essential for any scientist but is particularly important for those in the life sciences The field biologist faces very particular problems and challenges with statistics as real life situations such as collecting insects with a sweep net or counting seagulls on a cliff face can hardly be expected to be as reliable or controllable as a laboratory based experiment Acknowledging the peculiarities of field based data and its interpretation this book provides a superb introduction to statistical analysis helping students relate to their particular and often diverse data with confidence and ease To enhance the usefulness of this book the new edition incorporates the more advanced method of multivariate analysis introducing the nature of multivariate problems and describing the techniques of principal components analysis cluster analysis and discriminant analysis which are all applied to biological examples An appendix detailing the statistical computing packages available has also been included It will be extremely useful to undergraduates studying ecology biology and earth and environmental sciences and of interest to postgraduates who are not familiar with the application of multivariate techniques and practising field biologists working in these areas *Introduction to Statistics for Biology* Trudy A. Watt,Robin H. McCleery,Tom Hart,2007-05-17 Even though an understanding of experimental design and statistics is central to modern biology undergraduate and graduate students studying biological subjects often lack confidence in their numerical abilities Allaying the anxieties of students *Introduction to Statistics for Biology* Third Edition provides a painless introduction to the subject while demonstrating the importance of statistics in contemporary biological studies New to the Third Edition More detailed explanation of the ideas of elementary probability to simplify the rationale behind hypothesis testing before moving on to simple tests An emphasis on experimental design and data simulation prior to performing an experiment A general template for carrying out statistical tests from hypothesis to interpretation Worked examples and updated Minitab analyses and graphics Downloadable resources contains a free trial version of Minitab Using Minitab throughout to present practical examples the authors emphasize the interpretation of computer output With its nontechnical approach and practical advice this student friendly introductory text lays the foundation for the advanced study of statistical analysis *Multivariate Statistical Analysis for Biologists* Hilary L. Seal,1964

Common Errors in Statistics (and How to Avoid Them) Phillip I. Good,James W. Hardin,2006-04-20 Praise for the First Edition of *Common Errors in Statistics* let me recommend *Common Errors* to all those who interact with statistics

whatever their level of statistical understanding Stats 40 written for the people who define good practice rather than seek to emulate it Journal of Biopharmaceutical Statistics highly informative enjoyable to read and of potential use to a broad audience It is a book that should be on the reference shelf of many statisticians and researchers The American Statistician I found this book the most easily readable statistics book ever The credit for this certainly goes to Phillip Good E STREAMS A tried and true guide to the proper application of statistics Now in a second edition the highly readable Common Errors in Statistics and How to Avoid Them lays a mathematically rigorous and readily accessible foundation for understanding statistical procedures problems and solutions This handy field guide analyzes common mistakes debunks popular myths and helps readers to choose the best and most effective statistical technique for each of their tasks Written for both the newly minted academic and the professional who uses statistics in their work the book covers creating a research plan formulating a hypothesis specifying sample size checking assumptions interpreting p values and confidence intervals building a model data mining Bayes Theorem the bootstrap and many other topics The Second Edition has been extensively revised to include Additional charts and graphs Two new chapters Interpreting Reports and Which Regression Method New sections on practical versus statistical significance and nonuniqueness in multivariate regression Added material from the authors online courses at statistics.com New material on unbalanced designs report interpretation and alternative modeling methods With a final emphasis on both finding solutions and the great value of statistics when applied in the proper context this book is eminently useful to students and professionals in the fields of research industry medicine and government *Foundational and Applied Statistics for Biologists Using R* Ken A. Aho, 2016-03-09 Full of biological applications exercises and interactive graphical examples this text presents comprehensive coverage of both modern analytical methods and statistical foundations The author harnesses the inherent properties of the R environment to enable students to examine the code of complicated procedures step by step and thus better understand the process of obtaining analysis results The graphical capabilities of R are used to provide interactive demonstrations of simple to complex statistical concepts R code and other materials are available online **Experimental Design and Data Analysis for Biologists** Gerry P. Quinn, Michael J. Keough, 2002-03-21 An essential textbook for any student or researcher in biology needing to design experiments sample programs or analyse the resulting data The text begins with a revision of estimation and hypothesis testing methods covering both classical and Bayesian philosophies before advancing to the analysis of linear and generalized linear models Topics covered include linear and logistic regression simple and complex ANOVA models for factorial nested block split plot and repeated measures and covariance designs and log linear models Multivariate techniques including classification and ordination are then introduced Special emphasis is placed on checking assumptions exploratory data analysis and presentation of results The main analyses are illustrated with many examples from published papers and there is an extensive reference list to both the statistical and biological literature The book is supported by a website that provides all data sets questions for each chapter and links to

software Biostatistics with R Jan Lepš, Petr Šmilauer, 2020-07-30 A straightforward introduction to a wide range of statistical methods for field biologists using thoroughly explained R code *Multivariate Statistical Analysis for Biologists* H.L. Seal, 1964 **Statistics for Biologists** D. J. Finny, 2012-12-06 This book has grown from nine hours of lectures and about the same time in tutorial classes that attempt to give first year students of biology some understanding of statistics I am convinced that such a short course should not be mathematical though it can employ basic mathematical symbolism and that it should give students an appreciation of statistical argument even though this limits the amount of detailed instruction in techniques of analysis that can be included A statistical cookery book would have been easier to write and much easier to read but lacking in true educational content I am more concerned to show why than to present methods and rules A further constraint that of remaining within a reasonable price range prevents reiteration of explanations the reader is expected to remember what he has read for he will not find standard terms and ideas explained afresh on each occasion of use Many books that introduce statistics to biologists blur distinctions and evade logical issues for example by failing to emphasize the distinction between a parameter and an estimator from a sample or by neglecting the role of randomization On this I aim to be uncompromisingly correct at least until reviewers point out my errors but to do so through realistic examples rather than abstract symbolism **Statistics for Biologists** Richard Colin Campbell, 1989-05-11 This is the third edition of a successful textbook now with material added to illustrate the potential of computers for biologists It is a lucid introduction to the principles and more elementary techniques of statistical reasoning particularly as they are relevant to the biologist Special attention is paid to the validity and use of statistical procedures the interpretation of results and the meanings of the conclusions which can then be drawn The understanding of statistical methods is aided by full explanations of how calculations are built up A particular feature of this edition is the inclusion of new material to demonstrate the potential usefulness of computers in biological statistical analysis and to this end computer analyses of a selection of the examples are presented using several different statistical languages The examples are designed to guide and encourage the biologist to pursue the use of these languages further The book assumes no mathematical training and uses a minimum of jargon and symbolism It will be useful to any biologist student or research worker who needs an introduction to statistical procedures

Statistics for Biologists Campbell R C, 1989 **Statistics and Mathematics in Biology** Oscar Kempthorne, 1954

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