

Statistics for Biology and Health

Kenneth Lange

**Mathematical and
Statistical
Methods for
Genetic Analysis**

Second Edition



Springer

Mathematical And Statistical Methods For Genetic Analysis

Nan M. Laird, Christoph Lange



Mathematical And Statistical Methods For Genetic Analysis:

Mathematical and Statistical Methods for Genetic Analysis Kenneth Lange, 2013-04-17 During the past decade geneticists have constructed detailed maps of the human genome and cloned scores of Mendelian disease genes They now stand on the threshold of sequencing the genome in its entirety The unprecedented insights into human disease and evolution offered by mapping and sequencing will transform medicine and agriculture This revolution depends vitally on the contributions of applied mathematicians statisticians and computer scientists *Mathematical and Statistical Methods for Genetic Analysis* is written to equip graduate students in the mathematical sciences to understand and model the epidemiological and experimental data encountered in genetics research Mathematical statistical and computational principles relevant to this task are developed hand in hand with applications to gene mapping risk prediction and the testing of epidemiological hypotheses The book includes many topics currently accessible only in journal articles including pedigree analysis algorithms Markov chain Monte Carlo methods reconstruction of evolutionary trees radiation hybrid mapping and models of recombination Exercise sets are included Kenneth Lange is Professor of Biostatistics and Mathematics and the Pharmacia Upjohn Foundations Research Professor at the University of Michigan He has held visiting appointments at MIT and Harvard His research interests include human genetics population modeling biomedical imaging computational statistics and applied stochastic processes

Mathematical and Statistical Methods for Genetic Analysis Kenneth Lange, 2003-06-03 Written to equip students in the mathematical sciences to understand and model the epidemiological and experimental data encountered in genetics research This second edition expands the original edition by over 100 pages and includes new material Sprinkled throughout the chapters are many new problems

Mathematical And Statistical Methods For Genetic Analysis, 2E Lange, 2004-01-01 **The Fundamentals of Modern Statistical Genetics** Nan M. Laird, Christoph Lange, 2010-12-13 This book covers the statistical models and methods that are used to understand human genetics following the historical and recent developments of human genetics Starting with Mendel's first experiments to genome wide association studies the book describes how genetic information can be incorporated into statistical models to discover disease genes All commonly used approaches in statistical genetics e.g. aggregation analysis segregation linkage analysis etc are used but the focus of the book is modern approaches to association analysis Numerous examples illustrate key points throughout the text both of Mendelian and complex genetic disorders The intended audience is statisticians biostatisticians epidemiologists and quantitatively oriented geneticists and health scientists wanting to learn about statistical methods for genetic analysis whether to better analyze genetic data or to pursue research in methodology A background in intermediate level statistical methods is required The authors include few mathematical derivations and the exercises provide problems for students with a broad range of skill levels No background in genetics is assumed

Unified Methods for Censored Longitudinal Data and Causality Mark J. van der Laan, James M Robins, 2012-11-12 During the last decades there has been an explosion in

computation and information technology This development comes with an expansion of complex observational studies and clinical trials in a variety of fields such as medicine biology epidemiology sociology and economics among many others which involve collection of large amounts of data on subjects or organisms over time The goal of such studies can be formulated as estimation of a finite dimensional parameter of the population distribution corresponding to the observed time dependent process Such estimation problems arise in survival analysis causal inference and regression analysis This book provides a fundamental statistical framework for the analysis of complex longitudinal data It provides the first comprehensive description of optimal estimation techniques based on time dependent data structures subject to informative censoring and treatment assignment in so called semiparametric models Semiparametric models are particularly attractive since they allow the presence of large unmodeled nuisance parameters These techniques include estimation of regression parameters in the familiar multivariate generalized linear regression and multiplicative intensity models They go beyond standard statistical approaches by incorporating all the observed data to allow for informative censoring to obtain maximal efficiency and by developing estimators of causal effects It can be used to teach masters and Ph D students in biostatistics and statistics and is suitable for researchers in statistics with a strong interest in the analysis of complex longitudinal data

Probability Models for DNA Sequence Evolution Rick Durrett, 2013-03-09 Our basic question is Given a collection of DNA sequences what underlying forces are responsible for the observed patterns of variability To approach this question we introduce and analyze a number of probability models the Wright Fisher model the coalescent the infinite alleles model and the infinite sites model We study the complications that come from nonconstant population size recombination population subdivision and three forms of natural selection directional selection balancing selection and background selection These theoretical results set the stage for the investigation of various statistical tests to detect departures from neutral evolution The final chapter studies the evolution of whole genomes by chromosomal inversions reciprocal translocations and genome duplication Throughout the book the theory is developed in close connection with data from more than 60 experimental studies from the biology literature that illustrate the use of these results This book is written for mathematicians and for biologists alike We assume no previous knowledge of concepts from biology and only a basic knowledge of probability a one semester undergraduate course and some familiarity with Markov chains and Poisson processes Rick Durrett received his Ph D in operations research from Stanford University in 1976 He taught in the UCLA mathematics department before coming to Cornell in 1985 He is the author of six books and 125 research papers and is the academic father of more than 30 Ph D students His current interests are the use of probability models in genetics and ecology and decreasing the mean and variance of his golf

The Frailty Model Luc Duchateau, Paul Janssen, 2007-10-23 Clustered survival data are encountered in many scientific disciplines including human and veterinary medicine biology epidemiology public health and demography Frailty models provide a powerful tool to analyse clustered survival data In contrast to the large number of research publications on frailty models

relatively few statistical software packages contain frailty models It is demanding for statistical practitioners and graduate students to grasp a good knowledge on frailty models from the existing literature This book provides an in depth discussion and explanation of the basics of frailty model methodology for such readers The discussion includes parametric and semiparametric frailty models and accelerated failure time models Common techniques to fit frailty models include the EM algorithm penalised likelihood techniques Laplacian integration and Bayesian techniques More advanced frailty models for hierarchical data are also included Real life examples are used to demonstrate how particular frailty models can be fitted and how the results should be interpreted The programs to fit all the worked out examples in the book are available from the Springer website with most of the programs developed in the freeware packages R and Winbugs The book starts with a brief overview of some basic concepts in classical survival analysis collecting what is needed for the reading on the more complex frailty models

The Statistics of Gene Mapping David Siegmund, Benjamin Yakir, 2007-05-27 This book details the statistical concepts used in gene mapping first in the experimental context of crosses of inbred lines and then in outbred populations primarily humans It presents elementary principles of probability and statistics which are implemented by computational tools based on the R programming language to simulate genetic experiments and evaluate statistical analyses Each chapter contains exercises both theoretical and computational some routine and others that are more challenging The R programming language is developed in the text

Genetics Manual: Current Theory, Concepts, Terms George P Redei, 1998-03-31 The 1 150 pages contain more information than any other comparable book It is not a glossary or dictionary or review because all concepts are explained not just defined or mentioned Covers the latest developments usually missed in textbooks and monographs The broad range of modern genetics of cell and molecular biology biometry etc are included without glossing over the classical foundations The hundreds of simple and clear illustrations are very useful for classroom purposes because they can be drawn on the blackboard or projected on a screen without taking much time to make the crucial points The cross references among the entries tie the contents into an extremely useful comprehensive textbook The concise style leads the reader to the point without verbiage The etymology of the terms is explained The text is not intimidating and it is very easy to read because all the terms are explained within the book Most of the biometrical procedures are presented by worked out examples in a plain form rarely or not found at all in other books It effectively reaches out to non geneticists without compromising high scientific standards Usually the most essential features of a concept are presented at the beginning of the entry and the reader can go as far as she he feels needed about the logic The WEB and e mail addresses of databases and other sources of detailed information are very helpful A well selected list of about 1000 references published mainly in the last couple of years completes the volume The moderate price makes it a best buy and an excellent choice to own for students teachers scientists physicians lawyers and all educated persons who cannot afford an entire library yet wish to be well informed

Introduction to Statistical Methods in Modern Genetics M.C.

Yang,2000-02-23 Though the basic statistical theory behind modern genetics is not that difficult most statistical genetics papers are not easy to read for beginners and fitting formulae to a particular area of application quickly becomes very tedious Introduction to Statistical Methods in Modern Genetics makes a clear distinction between the necessary and unnecessary complexities The author keeps the derivations of methods simple without losing the mathematical details He also provides the necessary background in modern genetics for newcomers to the field including discussion ranging from biological and molecular experiments to gene hunting and genetic engineering

Mixed Effects Models and Extensions in Ecology with R Alain Zuur,Elena N. Ieno,Neil Walker,Anatoly A. Saveliev,Graham M. Smith,2009-03-05 Building on the successful Analysing Ecological Data 2007 by Zuur Ieno and Smith the authors now provide an expanded introduction to using regression and its extensions in analysing ecological data As with the earlier book real data sets from postgraduate ecological studies or research projects are used throughout The first part of the book is a largely non mathematical introduction to linear mixed effects modelling GLM and GAM zero inflated models GEE GLMM and GAMM The second part provides ten case studies that range from koalas to deep sea research These chapters provide an invaluable insight into analysing complex ecological datasets including comparisons of different approaches to the same problem By matching ecological questions and data structure to a case study these chapters provide an excellent starting point to analysing your own data Data and R code from all chapters are available from www.highstat.com

Geological Genetic Analysis and Application of Oil and Gas Reservoirs Huanqing Chen,2024-10-16 This book presents the research on geological genetic analysis of oil and gas reservoirs It expounds on the methods problems and prospects of geological genetic analyses of oil and gas reservoirs considering structures reservoirs and oil gas water OGW systems Then it explains the application of geological genetic analysis of oil and gas reservoirs with examples of volcanic rocks in the Songliao Basin glutenites in the northwestern Junggar Basin and sandstones in the Liaohe Basin It is a valuable reference for researchers engineers and graduate students engaged in oil gas exploration both from industrial and academic sectors

Fundamentals of Clinical Research Antonella Bacchieri,Giovanni Della Cioppa,2007-04-29 Here is a new book on methods and issues in clinical research Its objectives can be summarized in three points 1 Integrate medical and statistical components of clinical research 2 Do justice to the operational and practical requirements of clinical research 3 Give space to the ethical implications of methodological issues in clinical research The book ends with a brief description of the drug development process and the phases of clinical development

Solutions Manual for An Introduction to Genetic Analysis David Scott,2012 Since its inception Introduction to Genetic Analysis IGA has been known for its prominent authorship including leading scientists in their field who are great educators This market best seller exposes students to the landmark experiments in genetics teaching students how to analyze experimental data and how to draw their own conclusions based on scientific thinking while teaching students how to think like geneticists Visit the preview site at www.whfreeman.com/IGA10epreview

Bioinformatics in Human

Health and Heredity Ranajit Chakraborty, C.R. Rao, Pranab K. Sen, 2012-10-03 The field of statistics not only affects all areas of scientific activity but also many other matters such as public policy A series of handbooks is the only way of presenting the various aspects of statistical methodology applications and developments This volume deals with bioinformatics **Using the Biological Literature** Diane Schmidt, 2014-04-14 The biological sciences cover a broad array of literature types from younger fields like molecular biology with its reliance on recent journal articles genomic databases and protocol manuals to classic fields such as taxonomy with its scattered literature found in monographs and journals from the past three centuries *Using the Biological Literature A Practical Guide* Fourth Edition is an annotated guide to selected resources in the biological sciences presenting a wide ranging list of important sources This completely revised edition contains numerous new resources and descriptions of all entries including textbooks The guide emphasizes current materials in the English language and includes retrospective references for historical perspective and to provide access to the taxonomic literature It covers both print and electronic resources including monographs journals databases indexes and abstracting tools websites and associations providing users with listings of authoritative informational resources of both classical and recently published works With chapters devoted to each of the main fields in the basic biological sciences this book offers a guide to the best and most up to date resources in biology It is appropriate for anyone interested in searching the biological literature from undergraduate students to faculty researchers and librarians The guide includes a supplementary website dedicated to keeping URLs of electronic and web based resources up to date a popular feature continued from the third edition

Biometrics - Volume II Susan R. Wilson, Conrad Burden, 2009-02-18 Biometrics is a component of Encyclopedia of Mathematical Sciences in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Biometry is a broad discipline covering all applications of statistics and mathematics to biology The Theme Biometrics is divided into areas of expertise essential for a proper application of statistical and mathematical methods to contemporary biological problems These volumes cover four main topics Data Collection and Analysis Statistical Methodology Computation Biostatistical Methods and Research Design and Selected Topics These volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs **The Genetics of Osteoporosis and Metabolic Bone Disease** Michael J. Econs, 2000-05-12 The explosive growth in the field of molecular biology over the last two decades has started to make a great impact on clinical medicine Genes have been cloned for diseases that were poorly understood only a decade ago Additionally investigators are increasingly aware that there are strong genetic components to complex disorders such as osteoporosis that are not classically thought of as genetic disorders New insights into the pathogenesis of metabolic bone diseases have been obtained from investigations into the molecular biology of these diseases and new therapies will become available based on these new insights In *The Genetics of Osteoporosis and Metabolic Bone Disease I*

have assembled an internationally renowned group of experts to write the various chapters Each of the authors is an expert in his/her field who is currently performing research on the content of their chapter and have made important contributions to the understanding of the clinical features and pathophysiology of metabolic bone disease and genetics The first part of *The Genetics of Osteoporosis and Metabolic Bone Disease* addresses issues related to genetic contributions to the development of osteoporosis and the many factors that must be considered when searching for genes that predispose to osteoporosis The second section addresses recent advances in the clinical and molecular biological aspects of inherited metabolic bone disorders The last section reviews the latest techniques for finding genes that predispose to metabolic bone diseases

Proportional Hazards Regression John O'Quigley, 2008-01-25 The place in survival analysis now occupied by proportional hazards models and their generalizations is so large that it is no longer conceivable to offer a course on the subject without devoting at least half of the content to this topic alone This book focuses on the theory and applications of a very broad class of models proportional hazards and non proportional hazards models the former being viewed as a special case of the latter which underlie modern survival analysis Researchers and students alike will find that this text differs from most recent works in that it is mostly concerned with methodological issues rather than the analysis itself

Analyzing Ecological Data Alain Zuur, Elena N. Ieno, Graham M. Smith, 2007-08-29 Which test should I apply During the many years of working with ecologists biologists and other environmental scientists this is probably the question that the authors of this book hear the most often The answer is always the same and along the lines of What are your underlying questions What do you want to show The answers to these questions provide the starting point for a detailed discussion on the ecological background and purpose of the study This then gives the basis for deciding on the most appropriate analytical approach Therefore a better starting point for an ecologist is to avoid the phrase test and think in terms of analysis A test refers to something simple and unified that gives a clear answer in the form of a p value something rarely appropriate for ecological data In practice one has to apply a data exploration check assumptions validate the models perhaps apply a series of methods and most importantly interpret the results in terms of the underlying ecology and the ecological questions being investigated Ecology is a quantitative science trying to answer difficult questions about the complex world we live in Most ecologists are aware of these complexities but few are fully equipped with the statistical sophistication and understanding to deal with them

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