

# **Statistics for Biology and Health**

**Kenneth Lange**

## **Mathematical and Statistical Methods for Genetic Analysis**



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# Mathematical And Statistical Methods For Genetic Analysis

**Kenneth 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.

*Optimization* Kenneth Lange, 2004-06-17 Lange is a Springer author of other successful books. This is the first book that emphasizes the applications

of optimization to statistics The emphasis on statistical applications will be especially appealing to graduate students of statistics and biostatistics Biometrics - Volume II Susan R. Wilson,Conard 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

*Heterogeneity in Statistical Genetics* Derek Gordon,Stephen J. Finch,Wonkuk Kim,2020-12-16 Heterogeneity or mixtures are ubiquitous in genetics Even for data as simple as mono genic diseases populations are a mixture of affected and unaffected individuals Still most statistical genetic association analyses designed to map genes for diseases and other genetic traits ignore this phenomenon In this book we document methods that incorporate heterogeneity into the design and analysis of genetic and genomic association data Among the key qualities of our developed statistics is that they include mixture parameters as part of the statistic a unique component for tests of association A critical feature of this work is the inclusion of at least one heterogeneity parameter when performing statistical power and sample size calculations for tests of genetic association We anticipate that this book will be useful to researchers who want to estimate heterogeneity in their data develop or apply genetic association statistics where heterogeneity exists and accurately evaluate statistical power and sample size for genetic association through the application of robust experimental design **Applied Probability** Kenneth Lange,2010-08-13 Applied Probability presents a unique blend of theory and applications with special emphasis on mathematical modeling computational techniques and examples from the biological sciences It can serve as a textbook for graduate students in applied mathematics biostatistics computational biology computer science physics and statistics Readers should have a working knowledge of multivariate calculus linear algebra ordinary differential equations and elementary probability theory Chapter 1 reviews elementary probability and provides a brief survey of relevant results from measure theory Chapter 2 is an extended essay on calculating expectations Chapter 3 deals with probabilistic applications of convexity inequalities and optimization theory Chapters 4 and 5 touch on combinatorics and combinatorial optimization Chapters 6 through 11 present core material on stochastic processes If supplemented with appropriate sections from Chapters 1 and 2 there is sufficient material for a traditional semester long course in stochastic processes covering the basics of Poisson processes Markov chains branching processes martingales and diffusion processes The second edition adds two new chapters on asymptotic and numerical methods and an appendix that separates some of the more delicate

mathematical theory from the steady flow of examples in the main text. Besides the two new chapters the second edition includes a more extensive list of exercises many additions to the exposition of combinatorics new material on rates of convergence to equilibrium in reversible Markov chains a discussion of basic reproduction numbers in population modeling and better coverage of Brownian motion. Because many chapters are nearly self contained mathematical scientists from a variety of backgrounds will find Applied Probability useful as a reference    **Optimization** Kenneth Lange, 2013-03-19

Finite dimensional optimization problems occur throughout the mathematical sciences. The majority of these problems cannot be solved analytically. This introduction to optimization attempts to strike a balance between presentation of mathematical theory and development of numerical algorithms. Building on students' skills in calculus and linear algebra the text provides a rigorous exposition without undue abstraction. Its stress on statistical applications will be especially appealing to graduate students of statistics and biostatistics. The intended audience also includes students in applied mathematics computational biology computer science economics and physics who want to see rigorous mathematics combined with real applications. In this second edition the emphasis remains on finite dimensional optimization. New material has been added on the MM algorithm block descent and ascent and the calculus of variations. Convex calculus is now treated in much greater depth. Advanced topics such as the Fenchel conjugate subdifferentials duality feasibility alternating projections projected gradient methods exact penalty methods and Bregman iteration will equip students with the essentials for understanding modern data mining techniques in high dimensions    **Genetic Analysis of Attention-deficit Hyperactivity Disorder by Linkage and Family Based Association Test Approaches** Vlad Kustanovich, 2003    *Journal of the American Statistical Association*

, 2005 A scientific and educational journal not only for professional statisticians but also for economists business executives research directors government officials university professors and others who are seriously interested in the application of statistical methods to practical problems in the development of more useful methods and in the improvement of basic statistical data    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    *Research Awards Index* , 1988    **Introduction to Genetic Analysis** Anthony J.F. Griffiths, Susan R. Wessler, Sean B. Carroll, John Doebley, 2010-12-24 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](http://www.whfreeman.com/IGA10epreview) *Biostatistical Genetics and Genetic Epidemiology* Robert C. Elston, Jane M. Olson, Lyle Palmer, 2002-04-22 This is the third in a series of books based on articles from the Encyclopedia of Biostatistics The editors have updated the articles from the Human Genetics section of the EoB have adapted other articles to give them a genetic feel and have included a number of newly commissioned articles

#### **Biomedical Index to**

**PHS-supported Research**, 1988 *Mathematical Reviews*, 2002 **AMSTAT News**, 1997 **MM Optimization**

**Algorithms** Kenneth Lange, 2016-07-11 MM Optimization Algorithms offers an overview of the MM principle a device for deriving optimization algorithms satisfying the ascent or descent property These algorithms can separate the variables of a problem avoid large matrix inversions linearize a problem restore symmetry deal with equality and inequality constraints gracefully and turn a nondifferentiable problem into a smooth problem The author presents the first extended treatment of MM algorithms which are ideal for high dimensional optimization problems in data mining imaging and genomics derives numerous algorithms from a broad diversity of application areas with a particular emphasis on statistics biology and data mining and summarizes a large amount of literature that has not reached book form before

#### **Efficient Use of Genetic**

**Data for Mapping Complex Traits** Aaron Garth Day-Wiliams, 2009

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