

H.O. LANCASTER

# QUANTITATIVE METHODS IN BIOLOGICAL AND MEDICAL SCIENCES



A HISTORICAL ESSAY

SPRINGER-VERLAG

# Quantitative Methods In Biological And Medical Sciences A Historical Essay

**Samuel Kotz, Campbell B. Read, David  
L. Banks**



## **Quantitative Methods In Biological And Medical Sciences A Historical Essay:**

**Quantitative Methods in Biological and Medical Sciences** H.O. Lancaster, 2012-12-06 My original intention was to write a history of medical statistics used in its prewar sense expanding the writings on the subject by Major Greenwood from which I formed many of my ideas in the early days immediately after the Second World War In later years I decided that the scope of his works was narrower than what I think is appropriate now for he was writing in an era before the acceptance and use of the Fisherian methods and he was probably not aware of the mathematization of many parts of biological theory Further the boundary between the medical and biological sciences has largely disappeared Many texts have now been written on branches of the theory and practice inspired by R A Fisher see 4 13 I discuss the history of the use of quantitative methods in the biological sciences defined after the style of Peller 1967 as that branch of science that uses a quantitative approach to or quantitative logical reasoning on or biology The mathematical techniques any issue having to do with medicine are various and not classified here Within the book I use biological sciences to include medicine but use the longer phrase in its title to avoid misunderstandings as to content Moreover most of the experimental work carried out in medical research laboratories is performed on animals other than man

**Quantitative Methods in Biological and Medical Sciences** H O Lancaster, 1994-10-27 This wide ranging volume surveys the immense impact that quantitative methods have had on the development of modern biological and medical science Professor Lancaster begins with the contribution of the Ancient Greek philosophers and then traces the development of fundamental ideas from there to the present day He shows how mathematics principally through counting and measurement and statistics have profoundly influenced the emergence of key ideas and theories Since no background knowledge of biological anatomy physiology or disease is required this volume is essentially a self contained account As befits such a wide ranging volume amongst the topics covered are epidemiology the classification of disease microbiology genetics clinical trials death rates and life tables and evolution All those interested in these topics will find this an invaluable source of information and a remarkable synthesis of the long history of quantification in the biological including medical sciences

The Quantification of Life and Health from the Sixteenth to the Nineteenth Century Simone Guidi, Joaquim Braga, 2023-11-10 This edited volume explores the intersection of medicine and philosophy throughout history calling attention to the role of quantification in understanding the medical body Retracing current trends and debates to examine the quantification of the body throughout the early modern modern and early contemporary age the authors contextualise important issues of both medical and philosophical significance with chapters focusing on the quantification of temperaments and fluids complexions functions of the living body embryology and the impact of quantified reasoning on the concepts of health and illness With insights spanning from the sixteenth century to the nineteenth century this book provides a wide ranging overview of attempts to quantify the human body at various points Arguing that medicine and philosophy have been constantly in dialogue with each other the authors discuss how this provided a strategic

opportunity both for medical thought and philosophy to refine and further develop Given today's fascination with the quantification of the body represented by the growing profusion of self-tracking devices logging one's sleep diet or mood this collection offers an important and timely contribution to an emerging and interdisciplinary field of study

**Advanced Medical Statistics (2nd Edition)** Ying Lu, Ji-qian Fang, Lu Tian, Hua Jin, 2015-06-29 The book aims to provide both comprehensive reviews of the classical methods and an introduction to new developments in medical statistics The topics range from meta-analysis clinical trial design causal inference personalized medicine to machine learning and next generation sequence analysis Since the publication of the first edition there have been tremendous advances in biostatistics and bioinformatics The new edition tries to cover as many important emerging areas and reflect as much progress as possible Many distinguished scholars who greatly advanced their research areas in statistical methodology as well as practical applications also have revised several chapters with relevant updates and written new ones from scratch The new edition has been divided into four sections including Statistical Methods in Medicine and Epidemiology Statistical Methods in Clinical Trials Statistical Genetics and General Methods To reflect the rise of modern statistical genetics as one of the most fertile research areas since the publication of the first edition the brand new section on Statistical Genetics includes entirely new chapters reflecting the state of the art in the field Although tightly related all the book chapters are self-contained and can be read independently The book chapters intend to provide a convenient launch pad for readers interested in learning a specific topic applying the related statistical methods in their scientific research and seeking the newest references for in-depth research

[The Evolution of the Use of Mathematics in Cancer Research](#) Pedro Jose Gutiérrez Diez, Irma H. Russo, Jose Russo, 2012-02-17 The book will provide an exhaustive and clear explanation of how Statistics Mathematics and Informatics have been used in cancer research and seeks to help cancer researchers in achieving their objectives To do so state of the art Biostatistics Biomathematics and Bioinformatics methods will be described and discussed in detail through illustrative and capital examples taken from cancer research work already published The book will provide a guide for cancer researchers in using Statistics Mathematics and Informatics clarifying the contribution of these logical sciences to the study of cancer thoroughly explaining their procedures and methods and providing criteria to their appropriate use

*Clinical Trials* Steven Piantadosi, 2024-04-03 Comprehensive resource presenting methods essential in planning designing conducting analyzing and interpreting clinical trials The Fourth Edition of Clinical Trials builds on the text's reputation as a straightforward detailed and authoritative presentation of quantitative methods for clinical trials discussing principles of design for various types of clinical trials and elements of planning the experiment assembling a study cohort assessing data and reporting results Each chapter contains an introduction and summary to reinforce key points Discussion questions stimulate critical thinking and help readers understand how they can apply their newfound knowledge Written by a highly qualified author with significant experience in the field the Fourth Edition of Clinical Trials approaches the topic with

Problems that may arise during a trial and accompanying common sense solutions Design alternatives for addressing many questions in therapeutic development Statistical principles with new and provocative topics such as generalizing results operating characteristics trial issues during the COVID 19 pandemic and more Alternative medicine ethics middle development comparative studies adaptive designs and clinical trials using point of care data Revamped exercise sets updated and extensive references new material on endpoints and the developmental pipeline and revisions of numerous sections tables and figures Standing out due to its accessible and broad coverage of statistical design methods which are the building blocks of clinical trials and medical research Clinical Trials is an essential learning aid on the subject for undergraduate and graduate clinical trials courses Veterinary Epidemiology Michael Thrusfield, 2018-02-19 A comprehensive introduction to the role of epidemiology in veterinary medicine This fully revised and expanded edition of Veterinary Epidemiology introduces readers to the field of veterinary epidemiology The new edition also adds new chapters on the design of observational studies validity in epidemiological studies systematic reviews and statistical modelling to deliver more advanced material This updated edition begins by offering an historical perspective on the development of veterinary medicine It then addresses the full scope of epidemiology with chapters covering causality disease occurrence determinants disease patterns disease ecology and much more Veterinary Epidemiology Fourth Edition Features updates of all chapters to provide a current resource on the subject of veterinary epidemiology Presents new chapters essential to the continued advancement of the field Includes examples from companion animal livestock and avian medicine as well as aquatic animal diseases Focuses on the principles and concepts of epidemiology surveillance and diagnostic test validation and performance Includes access to a companion website providing multiple choice questions Veterinary Epidemiology is an invaluable reference for veterinary general practitioners government veterinarians agricultural economists and members of other disciplines interested in animal disease It is also essential reading for epidemiology students at both the undergraduate and postgraduate levels **Maladies of Empire** Jim Downs, 2021-01-12 A sweeping global history that looks beyond European urban centers to show how slavery colonialism and war propelled the development of modern medicine Most stories of medical progress come with ready made heroes John Snow traced the origins of London's 1854 cholera outbreak to a water pump leading to the birth of epidemiology Florence Nightingale's contributions to the care of soldiers in the Crimean War revolutionized medical hygiene transforming hospitals from crucibles of infection to sanctuaries of recuperation Yet histories of individual innovators ignore many key sources of medical knowledge especially when it comes to the science of infectious disease Reexamining the foundations of modern medicine Jim Downs shows that the study of infectious disease depended crucially on the unrecognized contributions of nonconsenting subjects conscripted soldiers enslaved people and subjects of empire Plantations slave ships and battlefields were the laboratories in which physicians came to understand the spread of disease Military doctors learned about the importance of air quality by monitoring Africans confined to the bottom

of slave ships Statisticians charted cholera outbreaks by surveilling Muslims in British dominated territories returning from their annual pilgrimage The field hospitals of the Crimean War and the US Civil War were carefully observed experiments in disease transmission The scientific knowledge derived from discarding and exploiting human life is now the basis of our ability to protect humanity from epidemics Boldly argued and eye opening *Maladies of Empire* gives a full account of the true price of medical progress

**A History of Inverse Probability** Andrew I. Dale, 2012-09-08 This is a history of the use of Bayes theorem from its discovery by Thomas Bayes to the rise of the statistical competitors in the first part of the twentieth century The book focuses particularly on the development of one of the fundamental aspects of Bayesian statistics and in this new edition readers will find new sections on contributors to the theory In addition this edition includes amplified discussion of relevant work

*History Of Male Infertility And Its Surgical Treatment: Historical Essays (In 2 Volumes)* Yefim R Sheynkin, 2025-01-10 Infertility in men has been a longstanding issue throughout history In the past infertility was commonly thought to be solely the fault of females while the complex history of male infertility was often overlooked Currently there is limited literature on the subject with only a few review articles and introductory chapters in textbooks or specialized books discussing the clinical features of male infertility but failing to address its historical societal cultural political and philosophical implications This book aims to fill this gap and offer readers a comprehensive historical perspective on the development of male infertility into a clinical entity

**College algebra and trigonometry and precalculus** Gary K. Rockswold, 2002

**Fearful Asymmetry** Richard Leblanc, 2017-08-01 Paul Broca made the most significant discovery in nineteenth century human biology when he found that speech resides within the left frontal lobe of the human brain As a young surgeon working at the hospice at Bic tre on the outskirts of Paris a repository for the criminal the insane the indigent and the sick Broca had to overcome derision acrimony personal attacks vindictiveness and prevailing doctrines before his findings were accepted Based on a new reading and translation of original records by Broca Jean Baptiste Bouillaud and Gustave Dax *Fearful Asymmetry* recounts the story of this hard won scientific discovery Richard Leblanc describes the contentious process beginning with Bouillaud who laid the groundwork for the findings that led Broca on the trail of discovery as he struggled to bring forward a fundamental truth of neurology and ultimately of the human condition Finally Leblanc connects the research of the three French scientists to the work of Wilder Penfield at the Montreal Neurological Institute in the twentieth century when neurology moved beyond postmortem anatomical studies to direct observations of the conscious brain Making many of the debates about localization available for the first time in English *Fearful Asymmetry* provides a detailed account of one critical scientific success and the long history behind it

**A History of Mathematical Statistics from 1750 to 1930** Anders Hald, 1998-04-22 The long awaited second volume of Anders Hald s history of the development of mathematical statistics Anders Hald s *A History of Probability and Statistics and Their Applications* before 1750 is already considered a classic by many mathematicians and historians This new volume picks up where its predecessor

left off describing the contemporaneous development and interaction of four topics direct probability theory and sampling distributions inverse probability by Bayes and Laplace the method of least squares and the central limit theorem and selected topics in estimation theory after 1830 In this rich and detailed work Hald carefully traces the history of parametric statistical inference the development of the corresponding mathematical methods and some typical applications Not surprisingly the ideas concepts methods and results of Laplace Gauss and Fisher dominate his account In particular Hald analyzes the work and interactions of Laplace and Gauss and describes their contributions to modern theory Hald also offers a great deal of new material on the history of the period and enhances our understanding of both the controversies and continuities that developed between the different schools To enable readers to compare the contributions of various historical figures Professor Hald has rewritten the original papers in a uniform modern terminology and notation while leaving the ideas unchanged Statisticians probabilists actuaries mathematicians historians of science and advanced students will find absorbing reading in the author's insightful description of important problems and how they gradually moved toward solution

**American Book Publishing Record** ,1995      **The Cumulative Book Index** ,1996 A world list of books in the English language      **Wissenschaft zwischen Qualitas und Quantitas** Erwin Neuenschwander,2013-03-07 Wissenschaft und insbesondere die Naturwissenschaften haben heute meist mit Messen das heisst mit der quantitativen Erfassung der Wirklichkeit zu tun Das Eigentliche die Qualit t der Dinge entzieht sich jedoch diesem technokratischen Zugriff Die Position der Wissenschaft im Spannungsfeld zwischen den Polen Quantitas und Qualitas in Geschichte und Gegenwart auszuleuchten ist das Anliegen der Beitr ge dieses Bandes Sie f hren vor Augen dass die Wissenschaftskonzeptionen des Altertums und des Mittelalters noch weitgehend qualitativ orientiert waren und zeigen wie diese in den verschiedenen Naturwissenschaften durch das neuzeitliche quantitativmessende Paradigma abgel st wurden und welche Probleme es dabei zu bew ltigen galt

*Journal of the American Statistical Association* American Statistical Association,1996      **Terveys ja humpuuki** Juha Matias Lehtonen,2021-04-13 Outoa tietoa terveydest Tietokirja surkeista parantajista turhant rkeist l k reist potilaiden ep toivosta ja siit kuinka hyvinvoinnista tuli Suomessa riidanaihe numero yksi Kaikki terveyshumpuukista Suomessa Menneisyydest paljastuu mehevi draamoja petoksia ja v rink sityksi mutta my s haavoittuvia hyv tarkoittavia ihmisi Kuka oli Suomen ensimm inen homeopaatti ja millaisen sopan h n keitti Miten valkoinen upseeri Hans Kalm ja musta salva liittyy t toisiinsa Ent raakaruoka ja natsit Millaisia l kkeit olivat pervitiini ja rimpeliini Kuinka vanhoja ovat rokotevastaiset salaliittoteoriat Juha Matias Lehtonen s 1982 on helsinkil inen uskontotieteilij ja tiedetoimittaja Vuodesta 2014 l htien h n on julkaissut Helsingin Sanomissa artikkeleita terveydest ja ihmisen k ytt ytymisestä Lehtonen on my s k sikirjoittanut luontodokumenttielokuvat It meri 2018 ja Meren uumen 2019 Terveys ja humpuuki on h nen esikoiskirjansa      [Australian National Bibliography](#) ,1995-05      **Encyclopedia of Statistical Sciences , Update** Samuel Kotz,Campbell B. Read,David L. Banks,1997 Keeping pace with the latest developments in all branches of statistical science Encyclopedia of Statistical

Sciences is the number one source of information on statistical theory methods and applications for researchers and clinicians This new volume is the last of three updates designed to bring the Encyclopedia in line with new and emerging topics and important advances in statistical science made over the past decade Each self contained entry is written by a leader in the field and easily understood by readers with a modest statistical background In addition to the main selections which feature fascinating discussions of developments in various branches of the statistical sciences readers will find a series of shorter entries ranging in subject matter from the lives of pioneers in statistics to updates of earlier articles and reviews of statistical agencies and journals Up to date bibliographies thorough cross referencing and extensive indexing facilitate quick access to specific information and provide an indispensable platform for further study and research A cumulative index and listing of all the entries in the 13 volumes of the Encyclopedia together with the corresponding authors are included With the publication of this update installment the Encyclopedia of Statistical Sciences retains its position as the only cutting edge reference of choice for those working in statistics probability theory biostatistics quality control and economics and in applications of statistical methods in sociology engineering computer and communication science biomedicine psychology and many other areas



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