

# Basic Statistics Formulas

## Population Measures

$$\text{Mean } \mu = \frac{1}{n} \sum x_i \quad (1)$$

$$\text{Variance } \sigma^2 = \frac{1}{n} \sum (x_i - \bar{x})^2 \quad (2)$$

$$\text{Standard Deviation } \sigma = \sqrt{\frac{1}{n} \sum (x_i - \bar{x})^2} \quad (3)$$

## Sampling

$$\text{Sample mean } \bar{x} = \frac{1}{n} \sum x_i \quad (4)$$

$$\text{Sample variance } s^2 = \frac{1}{n-1} \sum (x_i - \bar{x})^2 \quad (5)$$

$$\text{Std. Deviation } s_x = \sqrt{\frac{1}{n-1} \sum (x_i - \bar{x})^2} \quad (6)$$

$$z\text{-score } z = \frac{\bar{x} - \mu}{\sigma} \quad (7)$$

Correlation  $r =$

$$\frac{1}{n-1} \sum_{i=1}^n \left( \frac{(x_i - \bar{x})}{s_x} \right) \left( \frac{(y_i - \bar{y})}{s_y} \right) \quad (8)$$

## Linear Regression

$$\text{Line } \hat{y} = a + bx \quad (9)$$

$$b = r \frac{s_y}{s_x}, a = \bar{y} - b\bar{x} \quad (10)$$

$$s = \sqrt{\frac{1}{n-2} \sum_{i=1}^n (y_i - \hat{y})^2} \quad (11)$$

$$SE_b = \frac{s}{\sqrt{\sum_{i=1}^n (x_i - \bar{x})^2}} \quad (12)$$

$$\text{To test } H_0 : b = 0, \text{ use } t = \frac{b}{SE_b} \quad (13)$$

$$CI = b \pm t^* SE_b \quad (14)$$

## Probability

$$P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B) \quad (15)$$

$$P(\text{not } A) = 1 - P(A) \quad (16)$$

$$P(A \text{ and } B) = P(A)P(B) \text{ (independent)} \quad (17)$$

$$P(B|A) = P(A \text{ and } B)/P(A) \quad (18)$$

$$n! = 1 \cdot n! = 1 \times 2 \times 3 \cdots \times (n-1) \times n \quad (19)$$

$$\binom{n}{k} = \frac{n!}{k!(n-k)!} \quad (20)$$

Binomial Distribution :

$$P(X = k) = \binom{n}{k} p^k (1-p)^{n-k} \quad (21)$$

$$\mu = np, \sigma = \sqrt{np(1-p)} \quad (22)$$

## One-Sample z-statistic

$$\text{To test } H_0 : \mu = \mu_0 \text{ use } z = \frac{\bar{x} - \mu_0}{\sigma/\sqrt{n}} \quad (23)$$

$$\text{Confidence Interval for } \mu = \bar{x} \pm z^* \frac{\sigma}{\sqrt{n}} \quad (24)$$

$$\text{Margin of Error } ME = z^* \frac{\sigma}{\sqrt{n}} \quad (25)$$

$$\text{Minimum sample size } n \geq \left[ \frac{z^* \sigma}{ME} \right]^2 \quad (26)$$

## One-Sample t-statistic

$$SEM = \frac{s}{\sqrt{n}}, t = \frac{\bar{x} - \mu}{s/\sqrt{n}} \quad (27)$$

$$\text{Confidence Interval} = \bar{x} \pm t^* \frac{s}{\sqrt{n}} \quad (28)$$

## Two-Sample t-statistic

$$t = \frac{\bar{x}_1 - \bar{x}_2}{\sqrt{\frac{s_1^2}{n_1} + \frac{s_2^2}{n_2}}} \quad (29)$$

$$\text{Conf. Interval} = (\bar{x}_1 - \bar{x}_2) \pm t^* \sqrt{\frac{s_1^2}{n_1} + \frac{s_2^2}{n_2}} \quad (30)$$

## Sample Proportions

$$\hat{p}_p = \hat{p}, \sigma_{\hat{p}} = \sqrt{\frac{\hat{p}(1-\hat{p})}{n}} \quad (31)$$

$$\text{Conf. Int.} = \hat{p} \pm z^* (\sigma_{\hat{p}}) \quad (32)$$

$$SE = \sqrt{\frac{\hat{p}(1-\hat{p})}{n}} \quad (33)$$

$$\text{sample size } n \geq \left[ \frac{z^*}{ME} \right]^2 \hat{p}^*(1-\hat{p}^*) \quad (34)$$

$$\text{To test } H_0 : p = p_0, \text{ use } z = \frac{\hat{p} - p_0}{\sqrt{\hat{p}_0(1-\hat{p}_0)/n}} \quad (35)$$

## Two-Sample Proportions

$$SE = \sqrt{\frac{\hat{p}_1(1-\hat{p}_1)}{n_1} + \frac{\hat{p}_2(1-\hat{p}_2)}{n_2}} \quad (36)$$

$$CI = (\hat{p}_1 - \hat{p}_2) \pm z^* (SE) \quad (37)$$

$$\text{To test } H_0 : p_1 = p_2, \text{ use } \quad (38)$$

$$z = \frac{\hat{p}_1 - \hat{p}_2}{\sqrt{\hat{p}(1-\hat{p}) \left( \frac{1}{n_1} + \frac{1}{n_2} \right)}} \quad (39)$$

$$\hat{p} = \frac{\bar{X}_1 + \bar{X}_2}{n_1 + n_2}, \bar{X}_i = \text{successes} \quad (40)$$

## Chi-Square Statistic

$$\chi^2 = \sum_{i=1}^n \frac{(o_i - e_i)^2}{e_i} \quad (41)$$

$o_i = \text{observed}, e_i = \text{expected}$

## Central Limit Theorem

$$n\bar{x} \rightarrow \frac{\sigma}{\sqrt{n}} \text{ as } n \rightarrow \infty \quad (42)$$

# Statistical Mathematics

**Leonard J. Savage**

## Statistical Mathematics:

**All of Statistics** Larry Wasserman, 2010-12-01 Taken literally the title All of Statistics is an exaggeration But in spirit the title is apt as the book does cover a much broader range of topics than a typical introductory book on mathematical statistics This book is for people who want to learn probability and statistics quickly It is suitable for graduate or advanced undergraduate students in computer science mathematics statistics and related disciplines The book includes modern topics like nonparametric curve estimation bootstrapping and classification topics that are usually relegated to follow up courses The reader is presumed to know calculus and a little linear algebra No previous knowledge of probability and statistics is required Statistics data mining and machine learning are all concerned with collecting and analyzing data For some time statistics research was conducted in statistics departments while data mining and machine learning research was conducted in computer science departments Statisticians thought that computer scientists were reinventing the wheel Computer scientists thought that statistical theory didn't apply to their problems Things are changing Statisticians now recognize that computer scientists are making novel contributions while computer scientists now recognize the generality of statistical theory and methodology Clever data mining algorithms are more scalable than statisticians ever thought possible Formal statistical theory is more pervasive than computer scientists had realized

### **The Foundations of Statistics**

Leonard J. Savage, 1972-06-01 Classic analysis of the subject and the development of personal probability one of the greatest controversies in modern statistical thought New preface and new footnotes to 1954 edition with a supplementary 180 item annotated bibliography by author Calculus probability statistics and Boolean algebra are recommended

### **An Introduction**

**to Mathematical Statistics** Fetsje Bijma, Marianne Jonker, Aad Vaart, 2025-10-01 Statistics is the science that focuses on drawing conclusions from data by modeling and analyzing the data using probabilistic models In An Introduction to Mathematical Statistics the authors describe key concepts from statistics and give a mathematical basis for important statistical methods Much attention is paid to the sound application of those methods to data The three main topics in statistics are estimators tests and confidence regions The authors illustrate these in many examples with a separate chapter on regression models including linear regression and analysis of variance They also discuss the optimality of estimators and tests as well as the selection of the best fitting model Each chapter ends with a case study in which the described statistical methods are applied This book assumes a basic knowledge of probability theory calculus and linear algebra

**Mathematical Methods of Statistics** Harald Cramér, 1999-04-12 Harald Cramér's classic synthesis of statistical mathematical theory an invaluable resource for students and practitioners alike In the 1930s as British and American statisticians were developing the science of statistical inference French and Russian probabilists transformed the classical calculus of probability into a rigorous and pure mathematical theory In this incisive and authoritative book Harald Cramér unites these two major lines of development providing a masterly exposition of the mathematical methods of modern

statistics that set the standard in the field still followed today Requiring only a working knowledge of undergraduate mathematics this self contained book begins with an introduction to the fundamental concept of a distribution and of integration with respect to a distribution It goes on to discuss the general theory of random variables and probability distributions the theory of sampling statistical estimation and tests of significance Blending lucid and accessible writing with mathematical rigor Mathematical Methods of Statistics belongs on the shelf of anyone interested in statistical methods and remains the standard reference on the subject today    *Mathematical Statistics* Keith Knight,1999-11-24 Traditional texts in mathematical statistics can seem to some readers heavily weighted with optimality theory of the various flavors developed in the 1940s and 50s and not particularly relevant to statistical practice Mathematical Statistics stands apart from these treatments While mathematically rigorous its focus is on providing a set of useful tools that allow students to understand the theoretical underpinnings of statistical methodology The author concentrates on inferential procedures within the framework of parametric models but acknowledging that models are often incorrectly specified he also views estimation from a non parametric perspective Overall Mathematical Statistics places greater emphasis on frequentist methodology than on Bayesian but claims no particular superiority for that approach It does emphasize however the utility of statistical and mathematical software packages and includes several sections addressing computational issues The result reaches beyond nice mathematics to provide a balanced practical text that brings life and relevance to a subject so often perceived as irrelevant and dry

**Examples and Problems in Mathematical Statistics** Shelemyahu Zacks,2014-02-18 Provides the necessary skills to solve problems in mathematical statistics through theory concrete examples and exercises With a clear and detailed approach to the fundamentals of statistical theory Examples and Problems in Mathematical Statistics uniquely bridges the gap between theory and application and presents numerous problem solving examples that illustrate the related notations and proven results Written by an established authority in probability and mathematical statistics each chapter begins with a theoretical presentation to introduce both the topic and the important results in an effort to aid in overall comprehension Examples are then provided followed by problems and finally solutions to some of the earlier problems In addition Examples and Problems in Mathematical Statistics features Over 160 practical and interesting real world examples from a variety of fields including engineering mathematics and statistics to help readers become proficient in theoretical problem solving More than 430 unique exercises with select solutions Key statistical inference topics such as probability theory statistical distributions sufficient statistics information in samples testing statistical hypotheses statistical estimation confidence and tolerance intervals large sample theory and Bayesian analysis Recommended for graduate level courses in probability and statistical inference Examples and Problems in Mathematical Statistics is also an ideal reference for applied statisticians and researchers    *A Course in Mathematical Statistics* George G. Roussas,1997-03-12 A Course in Mathematical Statistics Second Edition contains enough material for a year long course in probability and statistics for

advanced undergraduate or first year graduate students or it can be used independently for a one semester or even one quarter course in probability alone It bridges the gap between high and intermediate level texts so students without a sophisticated mathematical background can assimilate a fairly broad spectrum of the theorems and results from mathematical statistics The coverage is extensive and consists of probability and distribution theory and statistical inference Contains 25% new material Includes the most complete coverage of sufficiency Transformation of Random Vectors

Sufficiency Completeness Exponential Families Order Statistics Elements of Nonparametric Density Estimation Analysis of Variance ANOVA Regression Analysis Linear Models *Introduction to Probability with Statistical Applications* Géza Schay,2007-08-15

Introduction to Probability with Statistical Applications targets non mathematics students undergraduates and graduates who do not need an exhaustive treatment of the subject The presentation is rigorous and contains theorems and proofs and linear algebra is largely avoided so only a minimal amount of multivariable calculus is needed The book contains clear definitions simplified notation and techniques of statistical analysis which combined with well chosen examples and exercises motivate the exposition Theory and applications are carefully balanced Throughout the book there are references to more advanced concepts if required *Statistics without Mathematics* David J. Bartholomew,2015-10-19

This is a book about the ideas that drive statistics It is an ideal primer for students who need an introduction to the concepts of statistics without the added confusion of technical jargon and mathematical language It introduces the intuitive thinking behind standard procedures explores the process of informal reasoning and uses conceptual frameworks to provide a foundation for students new to statistics It showcases the expertise we have all developed from living in a data saturated society increases our statistical literacy and gives us the tools needed to approach statistical mathematics with confidence Key topics include Variability Standard Distributions Correlation Relationship Sampling Inference An engaging informal introduction this book sets out the conceptual tools required by anyone undertaking statistical procedures for the first time or for anyone needing a fresh perspective whilst studying the work of others **Statistics for Mathematicians** Victor M. Panaretos,2016-06-09

This textbook provides a coherent introduction to the main concepts and methods of one parameter statistical inference Intended for students of Mathematics taking their first course in Statistics the focus is on Statistics for Mathematicians rather than on Mathematical Statistics The goal is not to focus on the mathematical theoretical aspects of the subject but rather to provide an introduction to the subject tailored to the mindset and tastes of Mathematics students who are sometimes turned off by the informal nature of Statistics courses This book can be used as the basis for an elementary semester long first course on Statistics with a firm sense of direction that does not sacrifice rigor The deeper goal of the text is to attract the attention of promising Mathematics students **Probability and Statistics for Data Science** Norman Matloff,2019-06-21 Probability and Statistics for Data Science Math R Data covers math stat distributions expected value estimation etc but takes the phrase Data Science in the title quite seriously Real datasets are used extensively All data

analysis is supported by R coding Includes many Data Science applications such as PCA mixture distributions random graph models Hidden Markov models linear and logistic regression and neural networks Leads the student to think critically about the how and why of statistics and to see the big picture Not theorem proof oriented but concepts and models are stated in a mathematically precise manner Prerequisites are calculus some matrix algebra and some experience in programming Norman Matloff is a professor of computer science at the University of California Davis and was formerly a statistics professor there He is on the editorial boards of the Journal of Statistical Software and The R Journal His book Statistical Regression and Classification From Linear Models to Machine Learning was the recipient of the Ziegel Award for the best book reviewed in Technometrics in 2017 He is a recipient of his university's Distinguished Teaching Award

**Mathematical Statistics** Dieter Rasch, Dieter Schott, 2018-03-19 Explores mathematical statistics in its entirety from the fundamentals to modern methods This book introduces readers to point estimation confidence intervals and statistical tests Based on the general theory of linear models it provides an in depth overview of the following analysis of variance ANOVA for models with fixed random and mixed effects regression analysis is also first presented for linear models with fixed random and mixed effects before being expanded to nonlinear models statistical multi decision problems like statistical selection procedures Bechhofer and Gupta and sequential tests and design of experiments from a mathematical statistical point of view Most analysis methods have been supplemented by formulae for minimal sample sizes The chapters also contain exercises with hints for solutions Translated from the successful German text Mathematical Statistics requires knowledge of probability theory combinatorics probability distributions functions and sequences of random variables which is typically taught in the earlier semesters of scientific and mathematical study courses It teaches readers all about statistical analysis and covers the design of experiments The book also describes optimal allocation in the chapters on regression analysis Additionally it features a chapter devoted solely to experimental designs Classroom tested with exercises included Practice oriented taken from day to day statistical work of the authors Includes further studies including design of experiments and sample sizing Presents and uses IBM SPSS Statistics 24 for practical calculations of data Mathematical Statistics is a recommended text for advanced students and practitioners of math probability and statistics [Statistical Methods](#) Donna L. Mohr, William J. Wilson, Rudolf J. Freund, 2021-04-16 Statistical Methods Fourth Edition is designed to introduce students to a wide range of popular and practical statistical techniques Requiring a minimum of advanced mathematics it is suitable for undergraduates in statistics or graduate students in the physical life and social sciences By providing an overview of statistical reasoning this text equips readers with the insight needed to summarize data recognize good experimental designs implement appropriate analyses and arrive at sound interpretations of statistical results Includes extensive case studies and exercises drawn from a variety of disciplines Provides practice problems for each chapter with complete solutions Offers new and updated data sets available online Includes recommended data analysis projects with accompanying data sets

Statistics: Concepts and Controversies David S. Moore, William I. Notz, 2019-10-16 There are books on statistical theory and books on statistical methods. This is neither. It is a book on statistical ideas and statistical reasoning and on their relevance to public policy and to the human sciences from medicine to sociology. We have included many elementary graphical and numerical techniques to give flesh to the ideas and muscle to the reasoning. Students learn to think about data by working with data. We have not however allowed technique to dominate concepts. Our intention is to teach verbally rather than algebraically to invite discussion and even argument rather than mere computation though some computation remains essential. The coverage is considerably broader than one might traditionally cover in a one term course as the table of contents reveals. In the spirit of general education we have preferred breadth to detail. Despite its informal nature SCC is a textbook. It is organized for systematic study and has abundant exercises many of which ask students to offer a discussion or make a judgment. Even those admirable individuals who seek pleasure in uncompeled reading should look at the exercises as well as the text. Teachers should be aware that the book is more serious than its low mathematical level suggests. The emphasis on ideas and reasoning asks more of the reader than many recipe laden methods texts. For the first time SCC will publish with SaplingPlus as its full course digital solution. We'll have a well developed library of both error specific feedback and generic feedback tutorial assessment aligned to the main learning goals of the chapter and largely taken directly from the end of chapter exercises in the book. SaplingPlus will also host our robust suite of teaching and learning resources: Concept and Controversy videos, statistical applets, Learning Curve data sets and many more teaching and learning focused tools.

*Mathematical Statistics* Wiebe R. Pestman, 2009-03-26 This textbook provides a broad and solid introduction to mathematical statistics including the classical subjects hypothesis testing, normal regression analysis and normal analysis of variance. In addition non parametric statistics and vectorial statistics are considered as well as applications of stochastic analysis in modern statistics e.g. Kolmogorov Smirnov testing, smoothing techniques, robustness and density estimation. For students with some elementary mathematical background. With many exercises. Prerequisites from measure theory and linear algebra are presented.

**The Nature of Statistical Evidence** Bill Thompson, 2007-12-21 Our motivation for writing this book was a dissatisfaction with the many books with titles like Foundations of Statistics. These books provide a needed description of the subject with examples of various statistical methods but they do not satisfy the discerning reader because they do not explain why certain conclusions may be drawn from certain data and they do not discuss how statistics the subject meshes with the scientific process. We naively set out to fill in these gaps but the situation is not so simple. What is desired is a tool the one true statistics which can be applied to data with certainty to justify conclusions but what is available in fact are various competing theories of statistics. The careful reader may correctly point out the relation of this manuscript to modern epistemology a philosophy which emphasizes that all human knowing in fields as diverse as religion and science is culture dependent and that therefore truth is not absolute. Take for example the truths of Christianity and Islam. wars have

been fought over their differences In the field of statistics there are for example Bayesians and sampling theorists Carson 2003 states Surely it is better postmodernists tell us to encourage insights that flow from many different perspectives In statistics postmodernism is manifest at two levels First the findings of statistical applications are not about the true state of nature but about models of experiments on nature *Mathematical Statistics* S. S. Wilks, 2012-11-19 This book contains S S Wilks lessons on mathematical statistics and will make an excellent addition to the bookshelf of anyone with an interest in the subject Preface Most of the mathematical theory of statistics in its present state has been developed during the past twenty years Because of the variety of scientific fields in which statistical problems have arisen the original contributions to this branch of applied mathematics are widely scattered in scientific literature Most of the theory still exists only in original form During the past few years the author has conducted a two semester course at Princeton University for advanced undergraduates and beginning graduate students in which an attempt has been made to give the students an introduction to the more recent developments in the mathematical theory of statistics The subject matter for this course has been gleaned for the most part from periodical literature Since it is impossible to cover in detail any large portion of this literature in two semesters the course has been held primarily to the basic mathematics of the material with just enough problems and examples for illustrative and examination purposes **Mathematical Statistics with Applications** Dennis

Wackerly, William Mendenhall, Richard L. Scheaffer, 2014-10-27 In their bestselling MATHEMATICAL STATISTICS WITH APPLICATIONS premiere authors Dennis Wackerly William Mendenhall and Richard L Scheaffer present a solid foundation in statistical theory while conveying the relevance and importance of the theory in solving practical problems in the real world The authors use of practical applications and excellent exercises helps students discover the nature of statistics and understand its essential role in scientific research Important Notice Media content referenced within the product description or the product text may not be available in the ebook version **Elementary Statistical Methods** G. Barrie

Wetherill, 2013-11-11 This book is mainly based on lectures given by Professor D R Cox and myself at Birkbeck College over a period of eight to nine years It began as a joint venture but pressure of other work made it necessary for Professor Cox to withdraw early on I have throughout received much valuable advice and encouragement from Professor Cox but of course I am solely responsible for the text and any errors remaining in it The book is intended as a first course on statistical methods and there is a liberal supply of exercises Although the mathematical level of the book is low I have tried to explain carefully the logical reasoning behind the use of the methods discussed Some of the exercises which require more difficult mathematics are marked with an asterisk and these may be omitted In this way I hope that the book will satisfy the needs for a course on statistical methods at a range of mathematical levels It is essential for the reader to work through the numerical exercises for only in this way can he grasp the full meaning and usefulness of the statistical techniques and gain practice in the interpretation of the results Chapters 7 and 8 discuss methods appropriate for use on ranked or discrete data and

Chapters 9 12 do not depend on these chapters Chapters 7 and 8 may therefore be omitted if desired [Probability](#) John J. Kinney, 2015-01-13 Praise for the First Edition This is a well written and impressively presented introduction to probability and statistics The text throughout is highly readable and the author makes liberal use of graphs and diagrams to clarify the theory The Statistician Thoroughly updated Probability An Introduction with Statistical Applications Second Edition features a comprehensive exploration of statistical data analysis as an application of probability The new edition provides an introduction to statistics with accessible coverage of reliability acceptance sampling confidence intervals hypothesis testing and simple linear regression Encouraging readers to develop a deeper intuitive understanding of probability the author presents illustrative geometrical presentations and arguments without the need for rigorous mathematical proofs The Second Edition features interesting and practical examples from a variety of engineering and scientific fields as well as Over 880 problems at varying degrees of difficulty allowing readers to take on more challenging problems as their skill levels increase Chapter by chapter projects that aid in the visualization of probability distributions New coverage of statistical quality control and quality production An appendix dedicated to the use of Mathematica and a companion website containing the referenced data sets Featuring a practical and real world approach this textbook is ideal for a first course in probability for students majoring in statistics engineering business psychology operations research and mathematics Probability An Introduction with Statistical Applications Second Edition is also an excellent reference for researchers and professionals in any discipline who need to make decisions based on data as well as readers interested in learning how to accomplish effective decision making from data

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