

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

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

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

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

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

$$\text{Correlation } r =$$

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

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

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

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

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

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

$$0! = 1; n! = 1 \times 2 \times 3 \cdots \times (n-1) \times n \quad (19)$$

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

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

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

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

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

$$\mu_p = p, \sigma_p = \sqrt{\frac{p(1-p)}{n}} \quad (31)$$

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

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

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

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

Two-Sample Proportions

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

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

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

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

$$\hat{p} = \frac{X_1 + X_2}{n_1 + n_2}, X_i = \text{successes} \quad (40)$$

Chi-Square Statistic

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

o_i = observed, e_i = expected

Central Limit Theorem

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

Basic Mathematics And Statistics For Science

Aulay Mackenzie



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Essential Mathematics and Statistics for Science Dr. Graham Currell, Dr. Antony Dowman, 2005-06-13 This very British work by Currell and Dowman both Univ of the West of England UK summarizes the mathematics necessary for all undergraduate science majors all the way from scientific notation and the solution of linear equations in one variable to nonparametric statistics and ANOVA It is concise complete and engaging Probably it is not suitable as a primary course resource both because it covers too much material and that in too brief a fashion to play such a role On the other hand it would make a dandy supplemental work for any course outside a mathematics department that uses statistical methods Students could they be encouraged to hang onto it would find it an ongoing useful resource Summing Up Highly recommended Lower and upper division undergraduates Lower division Undergraduates Upper division Undergraduates

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Yager, Liping Liu, 2008-02-22 This is a collection of classic research papers on the Dempster Shafer theory of belief functions The book is the authoritative reference in the field of evidential reasoning and an important archival reference in a wide range of areas including uncertainty reasoning in artificial intelligence and decision making in economics engineering and management The book includes a foreword reflecting the development of the theory in the last forty years **Handbook of**

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Handbook of Occupational Groups and Families ,1998 Towards a Collaborative Society Through Creative Learning Therese Keane,Cathy Lewin,Torsten Brinda,Rosa Bottino,2023-09-27 This book contains the revised selected refereed papers from the IFIP World Conference on Computers in Education on Towards a Collaborative Society through Creative Learning WCCE 2022 Hiroshima Japan August 20 24 2022 A total of 61 papers 54 full papers and 7 short papers were carefully reviewed and selected from 131 submissions They were organized in topical sections as follows Digital Education and Computing in Schools Digital Education and Computing in Higher Education National Policies and Plans for Digital Competence

Statistics for Data Scientists Maurits Kaptein,Edwin van den Heuvel,2022-02-02 This book provides an undergraduate introduction to analysing data for data science computer science and quantitative social science students It uniquely combines a hands on approach to data analysis supported by numerous real data examples and reusable R code with a rigorous treatment of probability and statistical principles Where contemporary undergraduate textbooks in probability theory or statistics often miss applications and an introductory treatment of modern methods bootstrapping Bayes etc and where applied data analysis books often miss a rigorous theoretical treatment this book provides an accessible but thorough introduction into data analysis using statistical methods combining the two viewpoints The book further focuses on methods for dealing with large data sets and streaming data and hence provides a single course introduction of statistical methods for data science

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Practical Statistics for Astronomers J. V. Wall,C. R. Jenkins,2012-04-26 Bringing together relevant statistical and probabilistic techniques a practical manual for advanced undergraduate and graduate students and professional astronomers

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Practical Machine Learning with Python Dipanjan Sarkar, Raghav Bali, Tushar Sharma, 2017-12-20 Master the essential skills needed to recognize and solve complex problems with machine learning and deep learning Using real world examples that leverage the popular Python machine learning ecosystem this book is your perfect companion for learning the art and science of machine learning to become a successful practitioner The concepts techniques tools frameworks and methodologies used in this book will teach you how to think design build and execute machine learning systems and projects successfully Practical Machine Learning with Python follows a structured and comprehensive three tiered approach packed with hands on examples and code Part 1 focuses on understanding machine learning concepts and tools This includes

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Mathematics of Chance Jiri Andel, 2009-09-25 *Mathematics of Chance* utilizes simple real world problems some of which have only recently been solved to explain fundamental probability theorems methods and statistical reasoning Jiri Andel begins with a basic introduction to probability theory and its important points before moving on to more specific sections on vital aspects of probability using both classic and modern problems Each chapter begins with easy realistic examples before covering the general formulations and mathematical treatments used The reader will find ample use for a chapter devoted to matrix games and problem sets concerning waiting probability calculations expectation calculations and statistical methods A special chapter utilizes problems that relate to areas of mathematics outside of statistics and considers certain mathematical concepts from a probabilistic point of view Sections and problems cover topics including Random walks Principle of reflection Probabilistic aspects of records Geometric distribution Optimization The LAD method and more Knowledge of the basic elements of calculus will be sufficient in understanding most of the material presented here and little knowledge of pure statistics is required Jiri Andel has produced a compact reference for applied statisticians working in industry and the social and technical sciences and a book that suits the needs of students seeking a fundamental understanding of probability theory

Statistics in Spectroscopy Howard Mark, Jerry Workman Jr., 2012-12-02 This tutorial offers a basic hands on approach to statistical analysis for chemists and spectroscopists Without involving complicated mathematics this book is designed to provide the reader with the basic principles underlying the use of

common mathematical and statistical tools Particular emphasis has been given to problem solving applications and the proper use and interpretation of spectroscopic data With exercises throughout this book is also suitable for use as a textbook in analytical chemistry instrumental analysis and statistics in chemistry courses Serves as a primer for all chemists who need to know more about statistical analysis Explains the effect of error on data and how to make the correct interpretation Written in a readable style with minimal mathematics Developed from the popular series of the same name first published in Spectroscopy magazine Data Science for Undergraduates National Academies of Sciences, Engineering, and Medicine, Division of Behavioral and Social Sciences and Education, Board on Science Education, Division on Engineering and Physical Sciences, Committee on Applied and Theoretical Statistics, Board on Mathematical Sciences and Analytics, Computer Science and Telecommunications Board, Committee on Envisioning the Data Science Discipline: The Undergraduate Perspective, 2018-11-11 Data science is emerging as a field that is revolutionizing science and industries alike Work across nearly all domains is becoming more data driven affecting both the jobs that are available and the skills that are required As more data and ways of analyzing them become available more aspects of the economy society and daily life will become dependent on data It is imperative that educators administrators and students begin today to consider how to best prepare for and keep pace with this data driven era of tomorrow Undergraduate teaching in particular offers a critical link in offering more data science exposure to students and expanding the supply of data science talent Data Science for Undergraduates Opportunities and Options offers a vision for the emerging discipline of data science at the undergraduate level This report outlines some considerations and approaches for academic institutions and others in the broader data science communities to help guide the ongoing transformation of this field

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