

Statistics Cheat Sheet

Ch 1: Overview & Descriptive Stats

Populations, Samples and Processes

Population: well-defined collection of objects

Sample: a subset of the population

Descriptive Stats: summarize & describe features of data

Inferential Stats: generalizing from sample to population

Probability: bridge betw descriptive & inferential techniques

In probability, properties of the population are assumed known & questions regarding a sample taken from the population are posed and answered.

Discrete and Continuous Variables: A numerical variable is **discrete** if its set of possible values is at most countable.

A numerical value is **continuous** if its set of possible values is an uncountable set.

Probability: pop \rightarrow sample

Stats: sample \rightarrow pop

Measures of Location

For observations x_1, x_2, \dots, x_n

Sample Mean $\bar{x} = \frac{\sum_{i=1}^n x_i}{n}$

Sample Median $\tilde{x} = (\frac{\sum_{i=1}^n x_i)^{(50\%)}$ observation

Trimmed Mean Given \tilde{x} and \bar{x} , compute by removing smallest and largest observations

Measures of Variability

Range $=$ high-order observation

Sample Variance, s^2 $= \frac{\sum_{i=1}^n (x_i - \bar{x})^2}{n-1} = \frac{\sum_{i=1}^n x_i^2}{n-1} - \frac{n\bar{x}^2}{n-1}$

S_{xx} $= \sum_{i=1}^n x_i^2 - \frac{(\sum_{i=1}^n x_i)^2}{n}$

Sample Standard Deviation, s $= \sqrt{s^2}$

Box Plots

Order the n observations from small to large. Separate the smallest half from the largest (if n is odd then \tilde{x} is in both halves). The lower fourth is the median of the smallest half (upper fourth largest). \bar{x} A measure of the spread that is resistant to outliers is the fourth spread f_4 , given by $f_4 =$ upper fourth - lower fourth. Draw from lower to upper fourth with line at median. Whiskers from smallest to largest x_i .

Ch 2: Probability

Sample Space and Events

Experiment activity with uncertain outcome

Sample Space(Ω) the set of all possible outcomes

Event any collection of outcomes in Ω

Axioms, Interpretations and Properties of Probability

Given an experiment and a sample space Ω , the objective probability is to assign to each event A a number $P(A)$, called the probability of event A , which will give a precise measure of the chance that A will occur. Behaves very much like mass.

Axioms & Properties of Probability:

1. $\forall A \in \mathcal{A}, 0 \leq P(A) \leq 1$
2. $P(\Omega) = 1$
3. If A_1, A_2, \dots is an infinite collection of disjoint events, $P(A_1 \cup A_2 \cup \dots) = \sum_{i=1}^{\infty} P(A_i)$
4. $P(\emptyset) = 0$
5. $\forall A, P(A) + P(A^c) = 1$ from which $P(A^c) = 1 - P(A)$
6. For any two events $A, B \in \mathcal{A}$, $P(A \cup B) = P(A) + P(B) - P(A \cap B)$
7. For any three events $A, B, C \in \mathcal{A}$, $P(A \cup B \cup C) = P(A) + P(B) + P(C) - P(A \cap B) - P(A \cap C) - P(B \cap C) + P(A \cap B \cap C)$

Equally Likely Outcomes $P(A_i) = \frac{|A_i|}{|\Omega|}$

Counting Techniques

Product Rule for Ordered k-Tuples: If the first element can be selected in n_1 ways, the second in n_2 ways and so on, then there are $n_1 n_2 \dots n_k$ possible k -tuples.

Permutations: An ordered subset. The number of permutations of size k that can be formed from a set of n elements is $P_{n,k}$

$$P_{n,k} = (n)(n-1) \dots (n-k+1) = \frac{n!}{(n-k)!}$$

Combinations: An unordered subset.

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

Conditional Probability

$P(A|B)$ is the conditional probability of A given that the event B has occurred. B is the conditioning event.

$$P(A|B) = \frac{P(A \cap B)}{P(B)}$$

Multiplication Rule: $P(A \cap B) = P(A|B) \cdot P(B)$

Baye's Theorem

Let A_1, A_2, \dots, A_k be disjoint and exhaustive events (that partition the sample space). Then for any other event B $P(B) = P(B|A_1)P(A_1) + \dots + P(B|A_k)P(A_k)$
 $= \sum_{i=1}^k P(B|A_i)P(A_i)$

Independence

Two events A and B are **independent** if $P(A|B) = P(A)$ and are **dependent** otherwise.

A and B are **independent** if $P(A \cap B) = P(A) \cdot P(B)$ and this can be generalized to the case of n mutually independent events.

Random Variables

Random Variable: any function $X: \Omega \rightarrow \mathbb{R}$

Prob. Dist.: describes how the probability of Ω is distributed along the range of X

Discrete rv: rv whose domain is at most countable

Continuous rv: rv whose domain is uncountable and where to $\in \mathbb{R}, P(X = x) = 0$

Bernoulli rv: discrete rv whose range is $\{0, 1\}$

The probability distribution of X says how the total probability of 1 is distributed among the various possible X values.

1. Distributions

Discrete RVs

Probability assigned to various outcomes in Ω in turn determines probability associated with the values of any particular rv X .

Probability Mass Fun/Probability Distribution, $p(x)$

$$p(x) = P(X = x) = P(\{w \in \Omega : X(w) = x\})$$

Given the probability of observing $w \in \Omega : X(w) = x$

The conditions $p(x) \geq 0$ and $\sum_{\text{all possible } x} p(x) = 1$ are required for any pmf.

parameter: Suppose $p(x)$ depends on a quantity that can be assigned any one of a number of possible values, with each different value determining a different probability distribution. Such a quantity is called a **parameter** of distribution. The collection of all probability distributions for different values of the parameter is called a **family of probability distributions**.

Cumulative Distribution Function

(To compute the probability that the observed value of X will be at most some given x)

Cumulative Distribution Function(cdf): $F(x)$ of a discrete rv variable X with pmf $p(x)$ is defined for every number x by

$$F(x) = P(X \leq x) = \sum_{x_i \leq x} p(x_i)$$

For any number x , $F(x)$ is the probability that the observed value of X will be at most x .

For discrete rv , the graph of $F(x)$ will be a step function: jump at every possible value of X and flat between possible values.

For any two number a and b with $a \leq b$

$$P(a \leq X \leq b) = F(b) - F(a^-)$$

$$P(a < X \leq b) = F(b) - F(a)$$

$$P(a \leq X < b) = F(b^-) - F(a)$$

$$P(a < X < b) = F(b^-) - F(a^-)$$

(where a^- is the largest possible X value strictly less than a)

Taking $a = b$ yields $P(X = a) = F(a) - F(a^-)$ as desired.

Expected value or Mean Value

$$E(X) = \mu_X = \sum_{x \in \Omega} x \cdot p(x)$$

Describes where the probability distribution is centered and is just a weighted average of the possible values of X given their distribution. However, the sample average of a sequence of X values may not settle down to some finite number (harmonic series) but will tend to grow without bound. Then the distribution is said to have a heavy tail. Can make it difficult to make inferences about μ .

The Expected Value of a Function: Sometimes interest will focus on the expected value of some function $h(x)$ rather than on just $E(x)$.

If the RV X has a set of possible values D and pmf $p(x)$, then the expected value of any function $h(x)$, denoted by $E[h(X)]$ or $\mu_{h(X)}$, is computed by

$$E[h(X)] = \sum_{x \in D} h(x) \cdot p(x)$$

Statistics Tests Cheat Sheet

Margot Northey, Judi Jewinski

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author names.

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Statistics for People Who (Think They) Hate Statistics Neil J. Salkind, 2006-07-14 Now in its third edition this title teaches an often intimidating and difficult subject in a way that is informative personable and clear Statistics Workbook For Dummies Deborah Rumsey, 2005-05-27 Presents an introduction to statistics providing information on analyzing and interpreting data knowing where to begin solving problems and more Provided by publisher **An R Companion for Applied Statistics II** Danney Rasco, 2020-06-26 An R Companion for Applied Statistics II Multivariable and Multivariate Techniques breaks the language of the R software down into manageable chunks in order to help students learn how to use R to analyze multivariate data The book focuses on the statistics generally covered in an intermediate or multivariate statistics course and provides one or two ways to run each analysis in R The book has been designed to be an R companion to Rebecca M Warner's Applied Statistics II Third Edition and includes end of chapter instructions for replicating the examples from that book in R However this text can also be used as a stand alone R guide for a multivariate statistics course without reference to the Warner text Datasets and scripts to run the examples are provided on an accompanying website **Hands-On Data Analysis with Pandas** Stefanie Molin, 2019-07-26 Get to grips with pandas a versatile and high performance Python library for data manipulation analysis and discovery Key Features Perform efficient data analysis and manipulation tasks using pandas Apply pandas to different real world domains using step by step demonstrations Get accustomed to using pandas as an effective data exploration tool Book Description Data analysis has become a necessary skill in a variety of positions where knowing how to work with data and extract insights can generate significant value Hands On Data Analysis with Pandas will show you how to analyze your data get started with machine learning and work effectively with Python libraries often used for data science such as pandas NumPy matplotlib seaborn and scikit learn Using real world datasets you will learn how to use the powerful pandas library to perform data wrangling to reshape clean and aggregate your data Then you will learn how to conduct exploratory data analysis by calculating summary statistics and visualizing the data to find patterns In the concluding chapters you will explore some applications of anomaly detection regression clustering and classification using scikit learn to make predictions based on past data By the end of this book you will be equipped with the skills you need to use pandas to ensure the veracity of your data visualize it for effective decision making and reliably reproduce analyses across multiple datasets What you will learn Understand how data analysts and scientists gather and analyze data Perform data analysis and data wrangling in Python Combine group and aggregate data from multiple sources Create data visualizations with pandas matplotlib and seaborn Apply machine learning ML algorithms to identify patterns and make predictions Use Python data science libraries to analyze real world datasets Use pandas to solve common data representation and analysis problems Build Python scripts modules and packages for reusable analysis code Who this book is for This book is for data analysts data science beginners and Python developers who want to explore each stage of data analysis and

scientific computing using a wide range of datasets You will also find this book useful if you are a data scientist who is looking to implement pandas in machine learning Working knowledge of Python programming language will be beneficial

CCNA 2.0 640-507 Routing and Switching Cheat Sheet Joseph W. Habraken, Joe Habraken, 2001 The outline of CCNA Cheat Sheet maps directly to the Cisco requirements for the routing and switching CCNA exam This book provides sample questions that test your knowledge of the CCNA exam objectives using a question format similar to that used on the actual exam This book provides questions and answers that simulate the actual test considered a necessity by the network professionals who want to cram for a test that will be an important milestone in their career

PCs Cheat Sheet Shelley O'Hara, Galen Grimes, 1999 Que's Cheat Sheet Series offers the busy beginning PC user just the right amount of information to get started with his/her PC Each chapter has a Basic Survival section that teaches the essentials of that chapter The author then has highlighted important content for the reader in a different color to stand out Finally the author gives the reader additional notes tips and shortcuts in the handwritten margin notes All combine to give the new PC user a quick easy way to navigate and use his/her PC

Exploring Research Neil J. Salkind, 2000 This text explores the use of electronic sources as a means to enhance research skills and includes discussions about scientific methods and the most common examples or research in the social and behavioural sciences

Making Sense in Engineering and the Technical Sciences: Making Sense in Engineering and the Technical Sciences Margot Northey, Judi Jewinski, 2012-04-05 Part of the bestselling Making Sense series Making Sense in Engineering and the Technical Sciences A Student's Guide to Research and Writing Fourth Edition is an indispensable research and writing guide for students in any area of the discipline from electrical and mechanical engineering to systems design and computer science Maintaining the signature straightforward style of the series the fourth edition outlines the general principles of style grammar and usage while covering such issues as how to prepare proposals and project reports how to write lab reports and how to follow the conventions governing the use of diagrams and graphics Concise and accessible with new information on technology based research and group presentations this latest edition continues to be an invaluable reference for students throughout their academic careers and beyond

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Rumsey,2003-09-19 In the numbers explosion all around us in our modern day dealings the buzzword is data as in Do you have any data to support your claim The data supported the original hypothesis that and The data bear this out But the field of statistics is not just about data Statistics is the entire process involved in gathering evidence to answer questions about the world in cases where that evidence happens to be numerical data Statistics For Dummies is for everyone who wants to sort through and evaluate the incredible amount of statistical information that comes to them on a daily basis You know the stuff charts graphs tables as well as headlines that talk about the results of the latest poll survey experiment or other scientific study This book arms you with the ability to decipher and make important decisions about statistical results being ever aware of the ways in which people can mislead you with statistics Get the inside scoop on number crunching nuances plus insight into how you can Determine the odds Calculate a standard score Find the margin of error Recognize the impact of polls Establish criteria for a good survey Make informed decisions about experiments This down to earth reference is chock full of real examples from real sources that are relevant to your everyday life from the latest medical breakthroughs crime studies and population trends to surveys on Internet dating cell phone use and the worst cars of the millennium Statistics For Dummies departs from traditional statistics texts references supplement books and study guides in the following ways Practical and intuitive explanations of statistical concepts ideas techniques formulas and calculations Clear and concise step by step procedures that intuitively explain how to work through statistics problems Upfront and honest answers to your questions like What does this really mean and When and how I will ever use this Chances are Statistics For Dummies will be your No 1 resource for discovering how numerical data figures into your corner of the universe *Math for*

Soil Scientists Mark S. Coyne, James Allen Thompson, 2006 This unique resource is written for students and practitioners in the field of soil science who must learn or review basic mathematical operations faced when studying or working with soils Unlike other texts of its kind *Math for Soil Scientists* explains the importance of each concept explored discusses the theory behind each concept and presents the method for solving each problem Designed to cover all of the most common equations in the soil science field from calculating particle size distribution to conducting simple hypothesis testing this text provides the reader with many opportunities for practice in working out sample problems of each required math concept This easy to read text approaches every concept in a step by step fashion allowing the reader to fully understand how to find the solution to each sample problem

Making Sense Margot Northey, Judi Jewinski, 2007 An indispensable guide for students in all areas of engineering and the technical sciences from electrical and mechanical engineering to systems design and computer science the second edition of *Making Sense in Engineering and the Technical Sciences* offers detailed information on preparing proposals and project reports evaluating Internet sources reporting the results of lab assignments writing summaries and abstracts researching ethically creating powerful visual aids figures tables flowcharts documenting sources using the latest IEEE APA CSE CMS and MLA guidelines avoiding plagiarism collaborating with students or colleagues eliminating problems with grammar punctuation and usage writing and formatting essays delivering oral presentations studying for tests and exams preparing resumes and letters of application Book jacket

Nursing Research with Basic Statistical Applications Patricia Ann Dempsey, Arthur D. Dempsey, 1992

Children at the Center Kathe Taylor, Sherry Walton, 1998 Do tests really matter Whether they accurately reflect how much children have learned is a question many teachers would answer with an emphatic No But as the movement for standardized testing sweeps the nation it is clear that tests do matter When children don't do well on them they suffer *Children at the Center* provides solutions for resolving the ethical and practical dilemmas posed by this trend It was written by teachers who have seen otherwise well respected schools damaged by poor test scores who have personally struggled with assessment that doesn't align well with curriculums who have discovered that most teachers are ill equipped to confidently interpret norm referenced test scores and therefore be effective advocates for students Mostly it is written from a pragmatic perspective geared toward the needs of children To that end readers will find an innovative ethical inquiry and workshop based approach to test preparation practical teacher ready workshops and student materials that have been field tested in several states and refined based on classroom teacher feedback models of responses to real life questions parents typically ask about testing a teacher friendly review of norm referenced test construction and interpretation As standardized tests continue to shape curriculums and teachers are held more and more accountable for student performance *Children at the Center* will prove essential in helping us pass the real test preparing children for the future

Just in Time Math Catherine V. Jeremko, 2004 *Just in Time Math* is the right book for you Designed specifically for last minute test preparation *Just in Time Math* is a fast accurate way to build your essential

computational and word problem skills This book includes nine chapters of common mathematical topics with an additional chapter on study skills to make your time effective In just ten short chapters you will get the essentials just in time for passing your big test *Winning the Academic Game* Catherine A. Baker,1999 **Work Injury Management News & Digest** ,1997 Unemployment in Australia Diana Encel,1989 **Newsweek** Raymond Moley,Samuel Thurston Williamson,Malcolm Muir,Rex Smith,Joseph Becker Phillips,1994 **Proceedings** ,1977

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