# Statistics Cheat Sheet

#### Mr. Roth, Mar 2004

#### 1. Fundamentals

- a. Population Everybody to be analysed
  - Parameter # summarizing Pop.
- Sample Subset of Pop we collect data on
  - Statistics # summarizing Sample
- Quantitative Variables a number
  - Discrete countable (# cars in family)
  - Continuous Measurements always # between
- d. Qualitative
  - Nominal just a name
  - Ordinal Order matters (low, mid, high)

#### Choosing a Sample

- Sample Frame list of pop we choose sample from
- Biased sampling differs from pop characteristics.
- Volunteer Sample any of below three types may end up as volunteer if people choose to respond.

#### Sample Designs

- e. Judgement Samp: Choose what we think represents
- Convenience Sample easily accessed people
- Probability Samp: Elements selected by Prob
  - Simple random sample every element = chance
  - Systematic sample almost random but we choose by method
- Census data on every everyone/thing in pop

#### Stratified Sampling

Divide pop into subpop based upon characteristics

- Proportional: in proportion to total pop
- i. Stratified Random: select random within substrata
- Cluster: Selection within representative clusters

#### Collect the Data

- k. Experiment: Control the environment.
- Observation:

#### 2. Single Variable Data - Distributions

- Graphing Categorical: Pie & bar chart)
- Histogram (classes, count within each class)
- shape, center, spread. Symmetric, skewed right, skewed left
- Stemplets

0	11222	0	112233
1	011333	0	56677
2	etc	- 1	

- q. Mean:  $\bar{x} = \sum x_i / n$
- r. Median: M: If odd center, if even mean of 2

Boxplot:

Milm	Qrt	M	Q3	Make
1	1			

- t. Variance:  $s^2 = \sum_{n=0}^{\infty} (x \bar{x})^2 / (n-1) = SS_x / (n-1)$ ,
- p78; standard deviation, s = √s<sup>2</sup>

v. 
$$SS_x = \sum (x - \bar{x})^2 = \sum x^2 - (\sum x)^2 / n$$

- Density curve relative proportion within classes area under curve = 1
- Normal Distribution: 68, 95, 99.7 % within 1, 2, 3 std deviations.
- y. p98: z-score  $z = (x \overline{x})/s$  or  $(x \mu)/\sigma$
- Standard Normal: N(0,1) when N(μ,σ)

#### 3. Bivariate - Scatterplots & Correlation

- Explanatory independent variable
- Besponse dependent variable
- e. Scatterplot: form, direction, strength, outliers
- form is linear negative, ....
- e. to add categorical use different color/symbol
- p147: Linear Correlation- direction & strength of linear relationship
- Pearsons Coeff: (-1 ≤ r ≤ 1) 1 is perfectly linear + slope, -1 is perfectly linear - slope.

$$r = \frac{1}{n-1} * \sum \frac{(x-\overline{x})}{s_x} \frac{(y-\overline{y})}{s_y} = \frac{SS_{xy}}{\sqrt{SS_x SS_y}}.$$

- 1.  $r = z_n z_n / (n 1)$ .
- $\beta = SS_{xy} = \sum xy \frac{\sum x \sum y}{n}$

#### 4. Regression

- least squares sum of squares of vertical error minimized
- 1. p154:  $y = b_0 + b_1 x$ , or  $\hat{y} = a + bx$ .
- m. (same as y = mx + b)

$$b_x = \frac{\sum (x - \overline{x})(y - \overline{y})}{\sum (x - \overline{x})^2} = \frac{SS_{xy}}{SS_x} = r(s_y / s_x)$$

 Then solving knowing lines thru centroid ((x̄, ȳ); a = ȳ − bx̄

$$p. \quad b_0 = \frac{\sum y - (b_i \sum x)}{n}$$

- q. r^2 is proportion of variation described by linear relationship
- r. residual =  $y \hat{y}$  = observed predicted.

# **Statistics Cheat Sheet**

Hanneke Loerts, Wander Lowie, Bregtje Seton

#### **Statistics Cheat Sheet:**

Statistics For Dummies Deborah J. Rumsey, 2016-05-19 The fun and easy way to get down to business with statistics Stymied by statistics No fear this friendly guide offers clear practical explanations of statistical ideas techniques formulas and calculations with lots of examples that show you how these concepts apply to your everyday life Statistics For Dummies shows you how to interpret and critique graphs and charts determine the odds with probability guesstimate with confidence using confidence intervals set up and carry out a hypothesis test compute statistical formulas and more Tracks to a typical first semester statistics course Updated examples resonate with today s students Explanations mirror teaching methods and classroom protocol Packed with practical advice and real world problems Statistics For Dummies gives you everything you need to analyze and interpret data for improved classroom or on the job performance **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 Psychology Statistics For Dummies Donncha Hanna, Martin Dempster, 2025-09-22 Untangle statistics and make correct dependable conclusions Psychology Statistics For Dummies 2nd Edition makes statistics accessible to psychology students covering all the content in a typical undergraduate psychology statistics class Built on a foundation of jargon free explanations and real life examples this book focuses on information and techniques that psychology students need to know and nothing more You ll learn to use the popular SPSS statistics software to calculate statistics and look for patterns in psychological data And this helpful guide offers a brief introduction to using the R programming language for statistical analysis an increasingly important skill for the digital age You ll also find hands on practice exercises and examples using recent real datasets Explore the use of statistical analysis in research for the psychology field Master basic statistics concepts such as means standard deviations and correlations Conduct data analysis using the SPSS software package Get clear explanations of everything in your psychology statistics course so you can pass with flying colors This guide is perfect to use as a readable supplement to psychology textbooks and overall coursework Students in other social and behavioral sciences can also benefit from this stellar primer on statistics Statistics and Data Visualization Using R David S. Brown, 2021-08-24 Designed to introduce students to quantitative methods in a way that can be applied to all kinds of data in all kinds of situations Statistics and Data Visualization Using R The Art and Practice of Data Analysis by David S Brown teaches students statistics through charts graphs and displays of data that help students develop intuition around statistics as well as data visualization skills By focusing on the visual nature of statistics instead of mathematical proofs and derivations students can see the relationships between variables that are the foundation of quantitative analysis Using the latest tools in R and R RStudio for calculations and data visualization students learn valuable skills they can take with them into a variety of future careers in the public sector the private sector or academia Starting at the most basic introduction to data and going through most crucial

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Statistics With R Jenine K. Harris, 2019-12-19 Recipient of a 2021 Most Promising New Textbook Award from the Textbook Academic Authors Association TAA Statistics with R is easily the most accessible and almost fun introduction to statistics and R that I have read Even the most hesitant student is likely to embrace the material with this text David A M Peterson Department of Political Science Iowa State University Drawing on examples from across the social and behavioral sciences Statistics with R Solving Problems Using Real World Data introduces foundational statistics concepts with beginner friendly R programming in an exploration of the world s tricky problems faced by the R Team characters Inspired by the programming group R Ladies the R Team works together to master the skills of statistical analysis and data visualization to untangle real world messy data using R The storylines draw students into investigating contemporary issues such as marijuana legalization voter registration and the opioid epidemic and lead them step by step through full color illustrations of R statistics and interactive exercises Included with this title The password protected Instructor Resource Site formally known as SAGE Edge offers access to all text specific resources including a test bank and editable chapter specific PowerPoint slides Statistics II For Dummies Deborah J. Rumsey, 2021-10-12 Continue your statistics journey with this all encompassing reference Completed Statistics through standard deviations confidence intervals and hypothesis testing Then you re ready for the next step Statistics II And there s no better way to tackle this challenging subject than with Statistics II

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where she won the distinguished Presidential Teaching Award and earned tenure and promotion She returned to Ohio State and is now a Statistics Education Specialist Auxiliary Faculty Member for the Department of Statistics Dr Rumsey has served on the American Statistical Associations Statistics Education Executive Committee and is the Editor of the Teaching Bits section of the Journal of Statistics Education She is the author of the both books in this bundle Additionally she has published many papers and given many professional presentations on the subject of Statistics Education Her particular research interests are curriculum materials development teacher training and support and immersive learning environments

Introduction to Probability, Statistics & R Sujit K. Sahu, 2024-04-01 A strong grasp of elementary statistics and probability along with basic skills in using R is essential for various scientific disciplines reliant on data analysis This book serves as a gateway to learning statistical methods from scratch assuming a solid background in high school mathematics Readers gradually progress from basic concepts to advanced statistical modelling with examples from actuarial biological ecological engineering environmental medicine and social sciences highlighting the real world relevance of the subject An accompanying R package enables seamless practice and immediate application making it ideal for beginners The book comprises 19 chapters divided into five parts Part I introduces basic statistics and the R software package teaching readers to calculate simple statistics and create basic data graphs Part II delves into probability concepts including rules and conditional probability and introduces widely used discrete and continuous probability distributions e g binomial Poisson normal log normal It concludes with the central limit theorem and joint distributions for multiple random variables Part III explores statistical inference covering point and interval estimation hypothesis testing and Bayesian inference This part is intentionally less technical making it accessible to readers without an extensive mathematical background Part IV addresses advanced probability and statistical distribution theory assuming some familiarity with or concurrent study of mathematical methods like advanced calculus and linear algebra Finally Part V focuses on advanced statistical modelling using simple and multiple regression and analysis of variance laying the foundation for further studies in machine learning and data science applicable to various data and decision analytics contexts Based on years of teaching experience this textbook includes numerousexercises and makes extensive use of R making it ideal for year long data science modules and courses In addition to university courses the book amply covers the syllabus for the Actuarial Statistics 1 examination of the Institute and Faculty of Actuaries in London It also provides a solid foundation for postgraduate studies in statistics and probability or a reliable reference for statistics Statistics for Big Data For Dummies Alan Anderson, 2015-08-11 The fast and easy way to make sense of statistics for big data Does the subject of data analysis make you dizzy You ve come to the right place Statistics For Big Data For Dummies breaks this often overwhelming subject down into easily digestible parts offering new and aspiring data analysts the foundation they need to be successful in the field Inside you ll find an easy to follow introduction to exploratory data analysis the lowdown on collecting cleaning and organizing data everything you need to know about

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Bayesian statistics Working code and data for Python solutions for each test together with easy to follow Python examples can be reproduced by the reader and reinforce their immediate understanding of the topic With recent advances in the Python ecosystem Python has become a popular language for scientific computing offering a powerful environment for statistical data analysis and an interesting alternative to R The book is intended for master and PhD students mainly from the life and medical sciences with a basic knowledge of statistics As it also provides some statistics background the book can be used by anyone who wants to perform a statistical data analysis A General Introduction to Data Analytics João Moreira, Andre Carvalho, Tomás Horvath, 2018-06-25 A guide to the principles and methods of data analysis that does not require knowledge of statistics or programming A General Introduction to Data Analytics is an essential guide to understand and use data analytics. This book is written using easy to understand terms and does not require familiarity with statistics or programming The authors noted experts in the field highlight an explanation of the intuition behind the basic data analytics techniques The text also contains exercises and illustrative examples Thought to be easily accessible to non experts the book provides motivation to the necessity of analyzing data It explains how to visualize and summarize data and how to find natural groups and frequent patterns in a dataset The book also explores predictive tasks be them classification or regression Finally the book discusses popular data analytic applications like mining the web information retrieval social network analysis working with text and recommender systems The learning resources offer A guide to the reasoning behind data mining techniques A unique illustrative example that extends throughout all the chapters Exercises at the end of each chapter and larger projects at the end of each of the text s two main parts Together with these learning resources the book can be used in a 13 week course guide one chapter per course topic The book was written in a format that allows the understanding of the main data analytics concepts by non mathematicians non statisticians and non computer scientists interested in getting an introduction to data science A General Introduction to Data Analytics is a basic guide to data analytics written in highly accessible terms Building Automated Quantitative Trading Systems Deepanshu Suman, 2025-10-27 Master Quantitative Algorithmic Trading with Python AI and Automation What if your trading could run 24 7 analyzing data learning from the markets and executing profitable trades automatically while you sleep Most traders lose not because of bad ideas but because of emotions inconsistency and lack of a system In today s AI driven world the real winners are those who let data and automation do the work This book is your complete blueprint to becoming a modern quantitative trader You ll learn step by step how to build test and deploy your own automated trading systems using Python machine learning and AI the same technologies powering hedge funds and trading firms worldwide Whether you re a retail trader developer or finance student this book takes you from zero to professional grade quant trading Inside you ll learn how to Understand quantitative and algorithmic trading fundamentals Code trading strategies in Python using libraries like Pandas NumPy Backtrader and scikit learn Apply machine learning and AI to predict trends and enhance strategies Perform

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