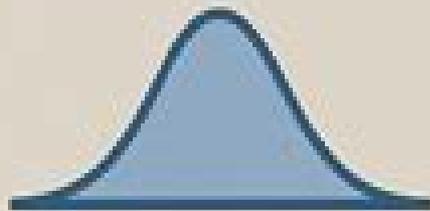


# Parametric vs. Non-Parametric Tests

## Parametric Tests

### Assumptions

- Normality
- Homogeneity of variance
- Independence



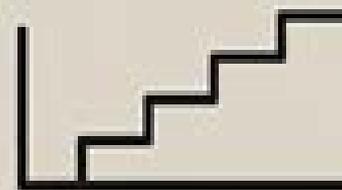
### Examples

- T-tests
- ANOVA
- Pearson correlation

## Non-Parametric Tests

### When to Use

- Data is not normally distributed
- Small sample size
- Ordinal/nominal data
- Presence of outliers



### Examples

- Mann-Whitney U test
- Wilcoxon signed-rank test
- Kruskal-Wallis test
- Spearman's rank correlation

# Applied Non Parametric Statistical Methods

**VM Jensen**



## **Applied Non Parametric Statistical Methods:**

*Applied Nonparametric Statistical Methods* Peter Sprent, Nigel C. Smeeton, 2016-04-19 While preserving the clear accessible style of previous editions *Applied Nonparametric Statistical Methods* Fourth Edition reflects the latest developments in computer intensive methods that deal with intractable analytical problems and unwieldy data sets Reorganized and with additional material this edition begins with a brief summary of some **Applied Nonparametric Statistical Methods** Nigel Smeeton, Neil Spencer, Peter Sprent, 2025-03-31 Nonparametric statistical methods minimize the number of assumptions that need to be made about the distribution of data being analysed unlike classical parametric methods As such they are an essential part of a statistician's armoury and this book is an essential resource in their application Starting from the basics of statistics it takes the reader through the main nonparametric approaches with an emphasis on carefully explained examples backed up by use of the R programming language Key features of this fully revised and extended fifth edition include the following An introductory chapter that provides a gentle introduction to the basics of statistics including types of data hypothesis testing confidence intervals and ethical issues An R package containing functions that have been written for the examples in the text and the exercises Summary bullet points at the end of each section to enable the reader to locate important principles quickly A case study from medical research to demonstrate nonparametric approaches to the data analysis Examples fully integrated into the text drawn from published research on contemporary issues with more detail given in their explanation Extensive exercises along with complete solutions that allow the reader to test their understanding of the material Articles used in the examples and exercises carefully chosen to enable readers to identify up to date literature in their field for research publications and teaching material Numerous historical references throughout the text from which to explore the origins of nonparametric methods *Applied Nonparametric Statistical Methods* Fifth Edition is a comprehensive course text in nonparametric techniques suitable for undergraduate students of mathematics and statistics It assumes only basic previous experience of statistics and with algebra kept to a minimum it is also ideal for quantitative methods modules delivered to undergraduate or postgraduate students in science business and health service training It is an invaluable resource for researchers medical practitioners business managers research and development staff and others needing to interpret quantitative information Suitable for self directed learning in continuing professional development it also acts as a handy accessible reference manual *Applied Nonparametric Statistical Methods* Peter Sprent, 2012-12-06 This book is a practical introduction to statistical techniques called nonparametric methods Using examples we explain assumptions and demonstrate procedures theory is kept to a minimum We show how basic problems are tackled and try to clear up common misapprehensions so as to help both students of statistics meeting the methods for the first time and workers in other fields faced with data needing simple but informative analysis An analogy between experimenters and car drivers describes our aim Statistical analyses may be done by following a set of rules without

understanding their logical basis but this has dangers It is like driving a car with no inkling of how the internal combustion engine the gears the ignition system the brakes actually work Understanding the rudiments helps one get better performance and makes driving safer appropriate gear changes become a way to reduce engine stress prolong engine life improve fuel economy minimize wear on brake linings Knowing how to change the engine oil or replace worn sparking plugs is not essential for a driver but it will reduce costs Learning such basics will not make one a fully fledged mechanic even less an automotive engineer but it all contributes to more economical and safer driving alerting one to the dangers of bald tyres a leaking exhaust worn brake linings

*Applied Nonparametric Statistical Methods* P. Sprent, 1993 *Applied Nonparametric Statistical Methods, Third Edition* Peter Sprent, Nigel C. Smeeton, 2000-09-07 This new edition follows the basic easy to digest pattern that was so well received by users of the earlier editions The authors substantially update and expand *Applied Nonparametric Statistical Methods* to reflect changing attitudes towards applied statistics new developments and the impact of more widely available and better statistical software The book takes into account computing developments since the publication of the popular Second Edition rearranging the material in a more logical order and introducing new topics It emphasizes better use of significance tests and focuses greater attention on medical and dental applications *Applied Nonparametric Statistical Methods Third Edition* explains the rationale of procedures with a minimum of mathematical detail making it not only an outstanding textbook but also an up to date reference for professionals who do their own statistical analyses New in the Third Edition Expanded coverage of topics such as ethical considerations and calculation of power and of sample sizes needed Refers to a wide variety of statistical packages such as StatXact Minitab Testimate S plus Stata and SPSS Includes sections on the analysis of angular data the use of capture recapture methods the measurement of agreement between observers runs tests and regression diagnostics

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**Nonparametric Statistics for Non-Statisticians** Gregory W. Corder, Dale I. Foreman, 2011-09-20 A practical and understandable approach to nonparametric statistics for researchers across diverse areas of study As the importance of nonparametric methods in modern statistics continues to grow these techniques are being increasingly applied to experimental designs across various fields of study However researchers are not always properly equipped with the knowledge to correctly apply these methods Nonparametric Statistics for Non Statisticians A Step by Step Approach fills a void in the current literature by addressing nonparametric statistics in a manner that is easily accessible for readers with a background in the social behavioral biological and physical sciences Each chapter follows the same comprehensive format beginning with a general introduction to the particular topic and a list of main learning objectives A nonparametric procedure is then presented and accompanied by context based examples that are outlined in a step by step fashion Next SPSS screen captures are used to demonstrate how to perform and recognize the steps in the various procedures Finally the authors identify and briefly describe actual examples of corresponding nonparametric tests from diverse fields Using this organized structure the book outlines essential skills for the application of nonparametric statistical methods including how to Test data for normality and randomness Use the Wilcoxon signed rank test to compare two related samples Apply the Mann Whitney U test to compare two unrelated samples Compare more than two related samples using the Friedman test Employ the Kruskal Wallis H test to compare more than two unrelated samples Compare variables of ordinal or dichotomous scales Test for nominal scale data A detailed appendix provides guidance on inputting and analyzing the presented data using SPSS and supplemental tables of critical values are provided In addition the book s FTP site houses supplemental data sets and solutions for further practice Extensively classroom tested Nonparametric Statistics for Non Statisticians is an ideal book for courses on nonparametric statistics at the upper undergraduate and graduate levels It is also an excellent reference for professionals and researchers in the social behavioral and health sciences who seek a review of nonparametric methods and relevant applications Nonparametric Statistical Methods Using R John Kloke, Joseph W. McKean, 2014-10-09 A Practical

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*Nonparametric Statistics for Applied Research* Jared A. Linebach, Brian P. Tesch, Lea M. Kovacsiss, 2013-11-19 Non parametric methods are widely used for studying populations that take on a ranked order such as movie reviews receiving one to four stars The use of non parametric methods may be necessary when data have a ranking but no clear numerical interpretation such as when assessing preferences In terms of levels of measurement non parametric methods result in ordinal data As non parametric methods make fewer assumptions their applicability is much wider than the corresponding parametric methods In particular they may be applied in situations where less is known about the application in question Also due to the reliance on fewer assumptions non parametric methods are more robust Non parametric methods have many popular applications and are widely used in research in the fields of the behavioral sciences and biomedicine This is a textbook on non parametric statistics for applied research The authors propose to use a realistic yet mostly fictional situation and series of dialogues to illustrate in detail the statistical processes required to complete data analysis This book draws on a readers existing elementary knowledge of statistical analyses to broaden his her research capabilities The material within the book is covered in such a way that someone with a very limited knowledge of statistics would be able to read and understand the concepts detailed in the text The real world scenario to be presented involves a multidisciplinary team of behavioral medical crime analysis and policy analysis professionals work together to answer specific empirical questions regarding real world applied problems The reader is introduced to the team and the data set and through the course of the text follows the team as they progress through the decision making process of narrowing the data and the research questions to answer the applied problem In this way abstract statistical concepts are translated into concrete and specific language This text uses one data set from which all examples are taken This is radically different from other statistics books which provide a varied array of examples and data sets Using only one data set facilitates reader directed teaching and learning by providing multiple

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*Solutions Manual for Applied Nonparametric Statistical Methods* Peter Sprent P Staff, 2007-06

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