

DECODING THE P-VALUE

A Comprehensive Guide to Understanding Statistical Significance

WHAT IS A P-VALUE?

A measure of the statistical evidence against the null hypothesis

The hypothesis: there is no effect or no relationship

The p-value tells us how likely it is to obtain our results, or more extreme results, if the null hypothesis is true.



HOW P-VALUES ARE CALCULATED

1. Choose a statistical test
2. Calculate the test statistic from the data
3. Determine the degrees of freedom

SIGNIFICANCE LEVEL (α)

A threshold chosen before testing that determines when to reject the null hypothesis

If $p \leq \alpha$: Reject the null hypothesis

If $p > \alpha$: Fail to reject the null hypothesis

Statistics Explained

Samuel Burns Weston



Statistics Explained:

Handbook of Research on Economic and Social Impacts of Population Aging Bayar, Yilmaz,2021-06-25 The increases in global wealth and the developments in the field of health have led to decreases in mortality rates increases in life expectancy and decreases in fertility rate leading to a population that is rapidly consisting more and more of older individuals The demographic changes affect nearly all parts of society including economics education health social security systems socio cultural activities and more Thus it is essential to study the impacts that an aging population will have on society The Handbook of Research on Economic and Social Impacts of Population Aging analyzes the economic and social impacts of population aging from a multidisciplinary perspective Covering topics such as life expectancy social welfare health social security and more this book is essential for social scientists sociologists demographers economists medical professionals government officials policymakers professionals researchers managers students and academicians looking to understand the effects of an aging population on modern society

World Energy Handbook Slobodan Petrovic,2023-09-30 World Energy Handbook presents an overview of the energy systems of selected countries in Africa Asia the Americas and Europe It is a complete guide to energy history and generation in these countries including renewable energy storage and use The authors follow the same analytical approach for each country to construct comprehensive surveys of all aspects of energy systems examining the advantages and disadvantages of each country s energy infrastructures The handbook aims to raise awareness about the condition and deficiencies of energy systems in developing countries and the potential for the countries to improve grow and advance the technologies for energy generation especially by turning to renewable energy sources to increase energy storage capacities and optimizing the way subsystems are integrated The book serves as a must have guide for decision makers investors business people and other professionals to understand the global distribution of energy generation transmission and each country s carbon footprint and identify opportunities for energy system improvement worldwide

European Welfare States and Globalization Ali Hajighasemi,2019 This timely book assesses how Europe s welfare states have dealt with the challenges of globalisation and the financial crisis It asks whether the European Union has adopted a general strategy for dealing with four major threats to the sustainable development of European societies the employability of a growing number of redundant workers an aging population low birth rates and the persistent problem of gender inequality The book will be an important read for social policy scholars particularly those focusing on European welfare states how they differ and lessons to be learnt from them It also highlights key lessons from a broad range of case studies to help policymakers in understanding how and where improvements may be made in the future

Statistics Explained Perry R. Hinton,1995 This text outlines the major statistical tests used by undergraduates in the social sciences It provides easy to understand explanations of how and why they are used and aims to make statistics much less mysterious

Statistics Explained Steve McKillup,2005-12-15 *Statistics Explained* is a reader friendly introduction to experimental

design and statistics for undergraduate students in the life sciences particularly those who do not have a strong mathematical background Hypothesis testing and experimental design are discussed first Statistical tests are then explained using pictorial examples and a minimum of formulae This class tested approach along with a well structured set of diagnostic tables will give students the confidence to choose an appropriate test with which to analyse their own data sets Presented in a lively and straight forward manner Statistics Explained will give readers the depth and background necessary to proceed to more advanced texts and applications It will therefore be essential reading for all bioscience undergraduates and will serve as a useful refresher course for more advanced students

Human Resource Management Ronan Carbery,Christine Cross,2018-11-10 This contemporary global and engaging textbook covers all the core HRM topics Providing a succinct overview it gives you the tools to engage your students in critical thinking and to develop their employability skills Rich in pedagogy features like HRM in the Global Business Environment and HRM and Organizational Performance prepare your students for the modern workplace Video interviews offer a practitioner perspective allowing students to relate theory to practice while HRM in the News boxes shine a light on current issues such as lawsuits against ridesharing company Uber The second edition of this popular textbook is compulsory reading for HRM courses at both undergraduate and postgraduate level Accessibly written but also offering depth and rigour it is appropriate for a wide range of courses New to this Edition Fully revised and updated learning features including two brand new features HRM and Organizational Performance and HRM in the Global Business Environment A new chapter on human resource analytics New video interviews including major multinational companies New international content brings in a global perspective

The Foundations of European Transnational Private Law Anna Beckers,Hans-W. Micklitz,Rodrigo Vallejo,Pia Letto-Vanamo,2024-05-30 Since Anu Bradford s groundbreaking book on the Brussels Effect there is a vastly evolving literature on the EU as a global regulatory actor as well as the global reach of EU law This edited collection connects to this debate Yet it shifts the focus from the currently predominant public law focus to investigating European and EU private law and to connecting to literature and research on transnational law To that end it proceeds first conceptually by introducing and giving shape to the notion of a European Transnational Private Law through four conceptual contributions by the editors Secondly it focuses on several sectors finance taxation investment consumer law labour law and topics climate litigation global value chains non discrimination to trace sector specifically the role of EU private law in relation to transnational legal ordering

Statistics Explained Perry R. Hinton,2014-03-21 Statistics Explained is an accessible introduction to statistical concepts and ideas It makes few assumptions about the reader s statistical knowledge carefully explaining each step of the analysis and the logic behind it The book provides a clear explanation of statistical analysis and the key statistical tests employed in analysing research data gives accessible explanations of how and why statistical tests are used includes a wide range of practical easy to understand worked examples Building on the international success of earlier editions this fully updated revision includes

developments in statistical analysis with new sections explaining concepts such as bootstrapping and structural equation modelling A new chapter Samples and Statistical Inference explains how data can be analysed in detail to examine its suitability for certain statistical tests The friendly and straightforward style of the text makes it accessible to all those new to statistics as well as more experienced students requiring a concise guide It is suitable for students and new researchers in disciplines including Psychology Education Sociology Sports Science Nursing Communication and Media and Business Studies Presented in full colour and with an updated reader friendly layout this new edition also comes with a companion website featuring supplementary resources for students Unobtrusive cross referencing makes it the ideal companion to Perry R Hinton s *SPSS Explained* also published by Routledge Perry R Hinton has many years of experience in teaching statistics to students from a wide range of disciplines and his understanding of the problems students face forms the basis of this book

Statistics Explained Ramesh Kapadia,Göran Andersson,1987 *Innovative Approaches and Applications for Sustainable Rural Development* Alexandros Theodoridis,Athanasios Ragkos,Michail Salampasis,2019-01-16 This book presents selected papers from the 8th International Conference on Information and Communication Technologies in Agriculture Food and Environment HAICTA 2017 which examine sustainable rural development in the context of environmental economic and the socio cultural dimension This book raises awareness of the importance of sustainable management in agriculture using examples of actual industry cases sustainable management practices new forms of rural cooperation and entrepreneurship

Statistics Explained Perry Roy Hinton,2004 This book clearly outlines the major statistical tests used by undergraduates in psychology and the social sciences and provides easy to understand explanations of how and why they are used and makes statistics much less of a burden

Documents of the Senate of the State of New York New York (State). Legislature. Senate,1916

Data Analysis and Statistics Across the Curriculum Gail Burrill,1992

Special Report Series ,1926 *Basics of Statistics Explained* Can Akdeniz, What do you know about statistics Are you a business student Are you a manager of some company Do you want to be an Economist If yes this course if for you Principles of Statistics are the basics of Economics Most of the times people find such course very boring and difficult In fact Statistic is really a boring thing In this book you will witness that the whole course is detailed in an easy to read and easy to understand way While having a cup of tea study it and get to know all about the principles of statistics In simple words it is a complete course that will help you in understanding the principles of statistics What you ll learn in this book Basics of Statistics Population and Sample Descriptive and Inferential Statistics Variables Measures of Center Measures of Variation Standard Deviation Organization of Data What is Estimation Hypothesis Testing Summarization of Bivariate Data

Handbook of Spatial Point-Pattern Analysis in Ecology Thorsten Wiegand,Kirk A. Moloney,2013-12-20 Understand How to Analyze and Interpret Information in Ecological Point Patterns Although numerous statistical methods for analyzing spatial point patterns have been available for several decades they haven t been extensively applied in an ecological context

Addressing this gap Handbook of Spatial Point Pattern Analysis in Ecology shows how the techniques of point pattern analysis are useful for tackling ecological problems Within an ecological framework the book guides readers through a variety of methods for different data types and aids in the interpretation of the results obtained by point pattern analysis Ideal for empirical ecologists who want to avoid advanced theoretical literature the book covers statistical techniques for analyzing and interpreting the information contained in ecological patterns It presents methods used to extract information hidden in spatial point pattern data that may point to the underlying processes The authors focus on point processes and null models that have proven their immediate utility for broad ecological applications such as cluster processes Along with the techniques the handbook provides a comprehensive selection of real world examples Most of the examples are analyzed using Programita a continuously updated software package based on the authors many years of teaching and collaborative research in ecological point pattern analysis Programita is tailored to meet the needs of real world applications in ecology The software and a manual are available online [Publications of the American Statistical Association](#) American Statistical Association,1912 A scientific and educational journal not only for professional statisticians but also for economists business executives research directors government officials university professors and others who are seriously interested in the application of statistical methods to practical problems in the development of more useful methods and in the improvement of basic statistical data [Monthly Summary of the League of Nations](#) League of Nations,League of Nations. Secretariat. Information Section,1923 **The Financial and Economical Progress and Condition of Netherlands India During the Last Fifteen Years and the Effect of the Present Currency System** Norbertus Petrus Berg,1887 *The Ethical Record* Samuel Burns Weston,1890

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