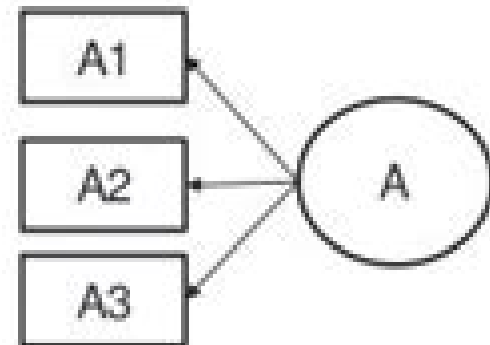


What is Factor Analysis?

- Statistical technique that serves to combine variables to create new factors
- Purpose
 - To reduce number of variables to enhance manageability
 - To identify the underlying constructs (latent variables)



Exploratory Factor Analysis Understanding Statistics

W. Holmes Finch, Brian F. French



Exploratory Factor Analysis Understanding Statistics:

Exploratory Factor Analysis Leandre R. Fabrigar, Duane T. Wegener, 2011-12-22 Exploratory Factor Analysis EFA has played a major role in research conducted in the social sciences for more than 100 years dating back to the pioneering work of Spearman on mental abilities. Since that time EFA has become one of the most commonly used quantitative methods in many of the social sciences including psychology, business, sociology, education, political science, and communications. To a lesser extent, it has also been utilized within the physical and biological sciences. Despite its long and widespread usage in many domains, numerous aspects of the underlying theory and application of EFA are poorly understood by researchers. Indeed, perhaps no widely used quantitative method requires more decisions on the part of a researcher and offers as wide an array of procedural options as EFA does. This book provides a non-mathematical introduction to the underlying theory of EFA and reviews the key decisions that must be made in its implementation. Among the issues discussed are the use of confirmatory versus exploratory factor analysis, the use of principal components analysis versus common factor analysis, procedures for determining the appropriate number of factors, and methods for rotating factor solutions. Explanations and illustrations of the application of different factor analytic procedures are provided for analyses using common statistical packages SPSS and SAS, as well as a free package available on the web. Comprehensive Exploratory Factor Analysis. In addition, practical instructions are provided for conducting a number of useful factor analytic procedures not included in the statistical packages. *Exploratory and Confirmatory Factor Analysis* Bruce Thompson, 2004-01-01 Investigation of the structure underlying variables or people or time has intrigued social scientists since the early origins of psychology. Conducting one's first factor analysis can yield a sense of awe regarding the power of these methods to inform judgment regarding the dimensions underlying constructs. This book presents the important concepts required for implementing two disciplines of factor analysis: exploratory factor analysis (EFA) and confirmatory factor analysis (CFA). The book may be unique in its effort to present both analyses within the single rubric of the general linear model. Throughout the book, canons of best factor analytic practice are presented and explained. The book has been written to strike a happy medium between accuracy and completeness versus overwhelming technical complexity. An actual data set randomly drawn from a large-scale international study involving faculty and graduate student perceptions of academic libraries is presented in Appendix A. Throughout the book, different combinations of these variables and participants are used to illustrate EFA and CFA applications. Preface PsycINFO Database Record c 2005 APA. All rights reserved. **Exploratory Factor Analysis** William Holmes Finch, 2020 A firm knowledge of factor analysis is key to understanding much published research in the social and behavioral sciences. Exploratory Factor Analysis by W. Holmes Finch provides a solid foundation in exploratory factor analysis (EFA), which, along with confirmatory factor analysis, represents one of the two major strands in this field. The book lays out the mathematical foundations of EFA, explores the range of methods for extracting the initial factor structure, explains factor

rotation and outlines the methods for determining the number of factors to retain in EFA The concluding chapter addresses a number of other key issues in EFA such as determining the appropriate sample size for a given research problem and the handling of missing data It also offers brief introductions to exploratory structural equation modeling and multilevel models for EFA Example computer code and the annotated output for all of the examples included in the text are available on an accompanying website

Applied Multivariate Statistical Concepts Debbie L. Hahs-Vaughn, 2024-10-29 This second edition of *Applied Multivariate Statistical Concepts* covers the classic and cutting edge multivariate techniques used in today's research Through clear writing and engaging pedagogy and examples using real data Hahs Vaughn walks students through the most used methods to learn why and how to apply each technique A conceptual approach with a higher than usual text to formula ratio helps readers master key concepts so they can implement and interpret results generated by today's sophisticated software Additional features include examples using real data from the social sciences templates for writing research questions and results that provide manuscript ready models step by step instructions on using R and SPSS statistical software with screenshots and annotated output clear coverage of assumptions including how to test them and the effects of their violation and conceptual computational and interpretative example problems that mirror the real world problems students encounter in their studies and careers This edition features expanded coverage of topics such as propensity score analysis path analysis and confirmatory factor analysis and centering moderation effects and power as related to multilevel modelling New topics are introduced such as addressing missing data and latent class analysis while each chapter features an introduction to using R statistical software This textbook is ideal for courses on multivariate statistics analysis design advanced statistics and quantitative techniques as well as for graduate students broadly in social sciences education and behavioral sciences It also appeals to researchers with no training in multivariate methods

Latent Variable Modeling with R W. Holmes Finch, Brian F. French, 2015-06-26 This book demonstrates how to conduct latent variable modeling LVM in R by highlighting the features of each model their specialized uses examples sample code and output and an interpretation of the results Each chapter features a detailed example including the analysis of the data using R the relevant theory the assumptions underlying the model and other statistical details to help readers better understand the models and interpret the results Every R command necessary for conducting the analyses is described along with the resulting output which provides readers with a template to follow when they apply the methods to their own data The basic information pertinent to each model the newest developments in these areas and the relevant R code to use them are reviewed Each chapter also features an introduction summary and suggested readings A glossary of the text's boldfaced key terms and key R commands serve as helpful resources The book is accompanied by a website with exercises an answer key and the in text example data sets *Latent Variable Modeling with R* Provides some examples that use messy data providing a more realistic situation readers will encounter with their own data Reviews a wide range of LVMs including factor analysis

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Educational and Psychological Measurement W. Holmes Finch, Brian F. French, 2018-10-12 This new text provides the most current coverage of measurement and psychometrics in a single volume Authors W Holmes Finch and Brian F French first review the basics of psychometrics and measurement before moving on to more complex topics such as equating and scaling item response theory standard setting and computer adaptive testing Also included are discussions of cutting edge topics utilized by practitioners in the field such as automated test development game based assessment and automated test scoring This book is ideal for use as a primary text for graduate level psychometrics measurement courses as well as for researchers in need of a broad resource for understanding test theory Features How it Works and Psychometrics in the Real World boxes break down important concepts through worked examples and show how theory can be applied to practice End of chapter exercises allow students to test their comprehension of the material while suggested readings and website links provide resources for further investigation A collection of free online resources include the full output from R SPSS and Excel for each of the analyses conducted in the book as well as additional exercises sample homework assignments answer keys and PowerPoint lecture slides

Handbook of Psychology, Research Methods in Psychology Irving B. Weiner, John A. Schinka, Wayne F. Velicer, 2012-10-16 Psychology is of interest to academics from many fields as well as to the thousands of academic and clinical psychologists and general public who can't help but be interested in learning more about why humans think and behave as they do This award winning twelve volume reference covers every aspect of the ever fascinating discipline of psychology and represents the most current knowledge in the field This ten year revision now covers discoveries based in neuroscience clinical psychology's new interest in evidence based practice and mindfulness and new findings in social developmental and forensic psychology

Statistics in Plain English Timothy C. Urdan, 2010 This inexpensive paperback provides a brief simple overview of statistics to help readers gain a better understanding of how statistics work and how to interpret them correctly Each chapter describes a different statistical technique ranging from basic concepts like central tendency and describing distributions to more advanced concepts such as t tests regression repeated measures ANOVA and factor analysis Each chapter begins with a short description of the statistic and when it should be used This is followed by a more in depth explanation of how the statistic works Finally each chapter ends with an example of the statistic in use and a sample of how the results of analyses using the statistic might be written up for publication A glossary of statistical terms and symbols is also included New features in the third edition include a new chapter on Factor and Reliability Analysis especially helpful to those who do and or read survey research new Writing it Up sections demonstrate how to write about

and interpret statistics seen in books and journals a website at <http://www.psypress.com/statistics-in-plain-english/> with PowerPoint presentations interactive problems including an overview of the problem's solution for Instructors with an IBM SPSS dataset for practice videos of the author demonstrating how to calculate and interpret most of the statistics in the book links to useful websites and an author blog new section on understanding the distribution of data ch 1 to help readers understand how to use and interpret graphs many more examples tables and charts to help students visualize key concepts Statistics in Plain English Third Edition is an ideal supplement for statistics research methods and/or for courses that use statistics taught at the undergraduate or graduate level or as a reference tool for anyone interested in refreshing their memory about key statistical concepts The research examples are from psychology education and other social and behavioral sciences

Encyclopedia of Statistics in Behavioral Science Brian S. Everitt, David Howell, 2005-05-27 The Encyclopedia of Statistics in Behavioral Science encompasses the refined statistical concepts and techniques that are essential to the advancement in psychology and its ever widening fields of application Providing comprehensive accounts drawn from the huge expansion of statistical methodologies in the behavioral sciences highlighting new techniques and developments from the past decade Up to date coverage of developing fields including neuroscience behavioral genetics decision learning and cognitive science Containing over 600 articles and over 400 contributions from eminent psychologists and statisticians world wide Emphasis on practical non technical methods with wide ranging application Extensively cross referenced to ensure fast and accurate access to available information Representing an invaluable addition to both the psychological and statistical literature the Encyclopedia of Statistics in Behavioral Science forms an essential reference work for researchers educators and students in the fields of applied psychology sociology market research consumer behavior management science decision making and human resource management For further details please visit www.wiley.com/go/eosbs

The ^APhilosophy of Quantitative Methods Brian D. Haig, 2018-01-04 The Philosophy of Quantitative Methods undertakes a philosophical examination of a number of important quantitative research methods within the behavioral sciences in order to overcome the non critical approaches typically provided by textbooks These research methods are exploratory data analysis statistical significance testing Bayesian confirmation theory and statistics meta analysis and exploratory factor analysis Further readings are provided to extend the reader's overall understanding of these methods

An Easy Guide to Factor Analysis Paul Kline, 1994 The clearest and most comprehensible introduction to factor analysis for all students of psychology and social sciences Paul Kline explains the basis of the method how it can be used and what its problems and difficulties are

Measurement Theory in Action Kenneth S Shultz, David J Whitney, 2005 This book provides all the information one would need to perform classical test theory analyses for reliability item analysis etc and relieves professors of the need to come up with such information on their own This allows them to concentrate on presenting the mathematical and statistical bases for the procedures that students will be using Keith F Widaman University of California Davis There is a real need for something

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Exploratory Factor Analysis W. Holmes Finch, 2019-09-05 A firm knowledge of factor analysis is key to understanding much published research in the social and behavioral sciences Exploratory Factor Analysis by W Holmes Finch provides a solid foundation in exploratory factor analysis EFA which along with confirmatory factor analysis represents one of the two major strands in this field The book lays out the mathematical foundations of EFA explores the range of methods for extracting the initial factor structure explains factor rotation and outlines the methods for determining the number of factors to retain in EFA The concluding chapter addresses a number of other key issues in EFA such as determining the appropriate sample size for a given research problem and the handling of missing data It also offers brief introductions to exploratory structural equation modeling and multilevel models for EFA Example computer code and the annotated output for all of the examples included in the text are available on an accompanying website

Research Methods in Sport Management Ming Li, Brenda G. Pitts, Jerome Quarterman, 2008 Filled with helpful figures and charts this first of its kind textbook is a vital resource for students teachers and industry professionals The authors are all expert researchers in their areas of specialisation and have written extensively in both books and journals Their current roles in teaching college level courses have allowed them to understand exactly how to tailor research methods to the topic of sport

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Best Practices in Exploratory Factor Analysis Jason W. Osborne, 2014-07-23 Best Practices in Exploratory Factor Analysis EFA is a practitioner oriented look at this popular and often misunderstood statistical technique We avoid formulas and matrix algebra instead focusing on evidence based best practices so you can focus on getting the most from your data Each chapter reviews important concepts uses real world data to provide authentic examples of analyses and provides guidance for interpreting the results of these analysis Not only does this book clarify often confusing issues like various extraction techniques what rotation is really rotating and how to use parallel analysis and MAP criteria to decide how many factors you have but it also introduces replication statistics and bootstrap analysis so that you can better understand how precisely your data are helping you estimate population parameters Bootstrap analysis also informs readers of your work as to the likelihood of replication which can give you more credibility At the end of each chapter the author has recommendations as to how to enhance your mastery of the material including access to the data sets used in the chapter through his web site Other resources include syntax and macros for easily incorporating these progressive aspects of exploratory factor analysis into your practice The web site will also include enrichment activities answer keys to select exercises and other resources The fourth best practices book by the author Best Practices in Exploratory Factor Analysis continues the tradition of clearly written accessible guides for those just learning quantitative methods or for those who have been researching for decades NEW in August 2014 Chapters on factor scores higher order factor analysis and reliability Chapters 1 INTRODUCTION TO EXPLORATORY FACTOR ANALYSIS 2 EXTRACTION AND ROTATION 3 SAMPLE SIZE MATTERS 4 REPLICATION STATISTICS IN EFA 5 BOOTSTRAP APPLICATIONS IN EFA 6 DATA CLEANING AND EFA 7 ARE FACTOR SCORES A GOOD IDEA 8 HIGHER ORDER FACTORS 9 AFTER THE EFA INTERNAL CONSISTENCY 10 SUMMARY AND CONCLUSIONS

A Step-by-Step Guide to Exploratory Factor Analysis with SPSS Marley W. Watkins, 2021-06-21 This is a concise easy to use step by step guide for applied researchers conducting exploratory factor analysis EFA using SPSS In this book Dr Watkins systematically reviews each decision step in EFA with screen shots and code from SPSS and recommends evidence based best practice procedures This is an eminently applied practical approach with few or no formulas and is aimed at readers with little to no mathematical background Dr Watkins maintains an accessible tone throughout and uses minimal jargon to help facilitate grasp of the key issues users will face while applying EFA along with how to implement interpret and report results Copious scholarly references and quotations are included to

support the reader in responding to editorial reviews This is a valuable resource for upper level undergraduate and postgraduate students as well as for more experienced researchers undertaking multivariate or structure equation modeling courses across the behavioral medical and social sciences

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