

Using Macro to simplify to Calculate Multi-Rater Observation Agreement

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ABSTRACT

This paper describes using several macros program to calculate multi-rater observation agreement using the SAS ® Kappa statistic. In the paper, we show an example of four raters observed a video to select certain tasks. Each rater could select up to ten tasks. Each rater could select different tasks numbers. Inter-rater reliability (IRR) between the four raters is examined using the Kappa statistic, calculated using the SAS ® PROC FREQ, MEANS, and PRINT procedures. The Kappa statistic and 95% CI for observers were calculated and the overall IRR was calculated by averaging pairwise Kappa agreements. This paper provides an example of how using macro to calculate percentage agreement with the Kappa statistic with a 95% CI using SAS ® PROC FREQ, MEANS, and PRINT for multiple raters with multiple observation categories. The program can be used for more raters and tasks. This paper expands the current functionality of the SAS ® PROC FREQ procedure to support application of the Kappa statistic for more than two raters and several categories.

Keywords:

Multi-rater Observation Agreement, Kappa Statistic, SAS

INTRODUCTION

Inter-rater reliability (IRR) among rater can be measured in any situation in which two or more raters are assessing the same thing. It was first time to introduce kappa statistics by Cohen (1960). The Kappa statistic estimates the percentage of agreement among raters after removing the percentage of agreement which would occur by chance. In observational studies it is often necessary to assess multi-rater agreement for multiple observation categories. The Kappa statistic is commonly used to measure agreement among raters for categorical data (Altman, 1991). The SAS ® PROC FREQ procedure supports application of the Kappa statistic for two raters and several categories. However, calculation is not straightforward for more than two raters as data must first be manipulated in a square form table in order to use the SAS ® PROC FREQ procedure.

PURPOSE

The purpose of this paper is to describe using macro program in SAS to calculate multi-rater observation agreement with the Kappa statistic.

BACKGROUND

In this paper, we show an example of four raters observed a video to select certain tasks. Each rater could select up to ten tasks for simplification. Each rater could select different tasks numbers. An example could be: four raters watch video of children with Autism to select specific behavioral characteristics (tasks) which is determined by researcher. Each observer can select different number of tasks.

DATA ANALYSIS

Analysis of this data was performed using **SAS/STAT** ® statistical software, version 9.2 (SAS, 2008). The SAS ® PROC FREQ procedure with the AGREE option was used for Kappa statistical calculations. The maximum number of tasks that could be selected by each rater was 10 for simplification. However, this can be extended to select more tasks. Some variability existed in the number and order of tasks recorded by each rater. Table 1 is part of the original data for the first three videos and shows the tasks that were selected by each rater. Table1 showed each rater selected different number of tasks. Also, there are missing for electing tasks.

The Macro requires that the dataset given has the columns ID, TASK1, and task1 to the number of raters the user wishes to compare. The variable **numoffRaters** determines how many raters the user wishes to compare, starting with 1 and going upwards. The dataset is loaded into SAS and formatted for easy use. In order to calculate Kappa in SAS the frequency table must be square. Uebersax (2002) used pseudo-observation to create square table. A weight of 1 for real observations and a weight of .0000000001 for pseudo-observations was assigned. Pseudo-

Observation Paper Examples

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A Practical Guide to Child Observation and Assessment Christine Hobart, Jill Frankel, 2004 Packed with examples of observation techniques skills and documented examples this text covers the child observation components of all major child care courses in particular CACHE CCE and DCE NVQ Level 2 and 3 as well as BTEC Most Expected MCQ on Paper 1

Vishal Verma, Shailley Singh, 2023-06-18 This book MOST EXPECTED MCQ ON PAPER 1 was created using the most up to date syllabus and pattern for the UGC NET General Paper 1 The book is organized into ten units according to the latest syllabus Teaching Aptitude Research Aptitude Comprehension Communication Mathematical Reasoning and Aptitude Logical Reasoning Data Interpretation Information and Communication Technology People and Environment and Higher Education System Features of the Book Comprehensive Coverage The book covers all aspects of General Paper 1 ensuring that readers have a thorough understanding of the subject It includes theories models strategies and methodologies relevant to the exam Practice Questions With over 3000 multiple choice questions MCQs the book provides ample practice opportunities for readers These questions cover a wide range of topics to test the reader s knowledge and understanding Answer Keys and Explanations The book would provide detailed answer keys and Explanations for all the MCQs to help readers understand the correct answer and the reasoning behind it Pedagogical Approach The book adopts a pedagogical approach presenting information in a structured and organized manner with clear and concise Explanations of key concepts Exam Oriented Approach The book is specifically tailored to cater to the needs of candidates preparing for competitive exams that include General Paper 1 questions Whether you are appearing for NTA UGC NET JRF PGT TGT CTET GIC B Ed M Ed Ph D or other similar exams this book will help you prepare effectively

Qualitative Research Method Sari Wahyuni, 2024-09-11 This publication has a very specific and clear goal which is to focus on the needs of a variety of readers including students researchers and teachers of qualitative research methods This book not only has theoretical considerations but also has intensely practical considerations For students of qualitative research methods this book provides a framework of qualitative research writing and a variety of accounts of experiences related to interview focus group discussion FGD and different levels of the important aspects of writing In addition for experienced researchers as well as teachers of qualitative research methods they are encouraged to study explore and create those aspects related to the process of qualitative research Therefore from this book students can learn a framework of qualitative research writing researchers and teachers too can hone their previous qualitative research writing skills and deepen their grasp of this area Contents that embrace in this book are Chapter 1 What is Qualitative Research Chapter 2 Type and Technique of Qualitative Research Chapter 3 Measurement in Qualitative Research Chapter 4 Interview Chapter 5 Focus Group Discussion Chapter 6 How to Write a Good Proposal Chapter 7 How to Draw Good Analysis Chapter 8 Example of Case Study Report

School-Based Observation Amy M. Briesch, Robert J. Volpe, Randy G. Floyd, 2018-02-16 This book is divided into three main sections The first section

Foundations of Direct Observation is intended to provide readers with the basic conceptual foundations of direct observation. We review the basic considerations involved in conducting school based observations. Chapter 2 describes the most important indicators of high quality observation methods. Chapter 3 and suggest guidelines for maximizing the reliability and validity of decisions based on observation data. Chapter 4 The second section Specific Observational Codes then moves from a general discussion of the overall assessment method to a more specific discussion of extant codes that are available for specific purposes. A number of evidence based observation codes that were designed to assess student behavior in classroom settings. Chapter 5 the classroom environment. Chapter 6 student behavior in non classroom settings. Chapter 7 and both student behavior the environmental context within functional assessment. Chapter 8 are introduced. We provide general guidelines for developing a unique code in Chapter 9 as well as a library of operational definitions and a range of sample coding forms within the appendices. The third and final section Using Assessment Data to Inform Decision Making and Intervention consists of one chapter focused on what to do once observational data have been collected.

New Methodological Perspectives on Observation and Experimentation in Science Wenceslao J. González, 2010-12-29 Observation and experimentation are central topics of philosophy and methodology of science. The empirical sciences have commonly been associated to observational and experimental processes because they have been considered crucial for testing the contents of these. Thus observation and experimentation have received attention from different angles and they have been historically relevant in the advancement of science. Their philosophical methodological analysis includes some key aspects those related to axiological epistemological and methodological issues. **New Methodological Perspectives on Observation and Experimentation in Science** deals with a classic topic that is seen from new angles. Its nine chapters seek non traditional aspects trying to extend the boundaries of this philosophical methodological theme. They are presented in five sections: 1 A Philosophical Methodological Context 2 Experience and Scientific Observations 3 Empirical Support and Experiments in Science 4 Changes in the Framework on Observation and Experimentation and 5 Enlarging the Philosophical Scope. Law and Ecology. Wenceslao J Gonzalez is Professor of Logic and Philosophy of Science University of A Coruña. He is a Full Member of the International Academy for Philosophy of Sciences AIPS Visiting fellow at the Center for Philosophy of Science University of Pittsburgh and a Team Leader of the European Science Foundation program entitled The Philosophy of Science in a European Perspective. He has been named a Distinguished Researcher by the Main National University of San Marcos in Lima Peru. He has been a visiting researcher at the Universities of St Andrews Münster and London LSE. He has given lectures at the Universities of Pittsburgh Stanford Quebec and Helsinki. The conferences in which he has participated include those organized by the Universities of Uppsala New South Wales Bologna Canterbury NZ and Beijing. He has edited 26 volumes on philosophy and methodology of science.

Participant Observation James P. Spradley, 2016-02-17 Spradley should be read by anyone who wants to gain a true understanding of the process of participant observation. This text is a follow up to his

ethnographic research handbook The Ethnographic Interview and guides readers through the technique of participant observation to research ethnography and culture Spradley shows how to analyze collected data and to write an ethnography The appendices include research questions and writing tasks Earth Observations and Geospatial Science in Service of Sustainable Development Goals Souleye Wade, 2019-11-30 This book provides a unique insight into the research and recent developments undertaken among the African Remote Sensing community in regard to the environment It includes reports of the latest research outcomes in the field of remote sensing and geospatial information technologies analyses discussions around operational topics such as capacity building Spatial Data Infrastructure SDI applications of advanced remote sensing technologies LiDAR Hyperspectral in Africa big data space policy and topics of high actuality in the field of climate changes ocean and coastal zone management early warning systems natural resources management or geospatial science for sustainable development goals The book comprises the contributions of the AARSE African Association of Remote Sensing of the Environment international conference which is conducted biennially across Africa alternately with the AfricaGIS conference It is the premier forum in Africa for research on remote sensing technologies and geospatial information science gathering leading scholars from the remote sensing and related communities The conference is co organised by the Arab Academy of Science and Technology in partnership with the National Authority for Remote Sensing Space Sciences NARSS of Egypt and continues a long series of successful AARSE conferences which started in 1996 in Harare Zimbabwe and has been held in Abidjan Cote D Ivoire in 1998 Cape Town South Africa in 2000 Abuja Nigeria in 2002 Nairobi Kenya in 2004 Cairo Egypt in 2006 Accra Ghana in 2008 Addis Ababa Ethiopia in 2010 El Jadida Morocco in 2012 Johannesburg South Africa in 2014 and in Kampala Uganda in 2016 The book is mainly addressed to practitioners and experts from academia politics and industry Learning & Teaching Scientific Inquiry James Jadrich, Crystal Bruxvoort, 2011 Science teacher educators curriculum specialists professional development facilitators and KOCO8 teachers are bound to increase their understanding and confidence when teaching inquiry after a careful reading of this definitive volume Advancing a new perspective James Jadrich and Crystal Bruxvoort assert that scientific inquiry is best taught using models in science rather than focusing on scientists' activities **Algorithmic Learning Theory** Ming Li, 1997-09-17 This book constitutes the strictly refereed post workshop proceedings of the Second International Workshop on Database Issues for Data Visualization held in conjunction with the IEEE Visualization 95 conference in Atlanta Georgia in October 1995 Besides 13 revised full papers the book presents three workshop subgroup reports summarizing the contents of the book as well as the state of the art in the areas of scientific data modelling supporting interactive database exploration and visualization related metadata The volume provides a snapshot of current research in the area and surveys the problems that must be addressed now and in the future towards the integration of database management systems and data visualization Progression in Primary Science Martin Hollins, Maggie Williams, Virginia Whitby, 2013-10-18 Using many examples drawn from classroom practice

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Annual Report of the Association of Ontario Land Surveyors Association of Ontario Land Surveyors,Canadian Institute of Surveying,1884 *Special and Gifted Education: Concepts, Methodologies, Tools, and Applications* Management Association, Information Resources,2016-04-25 Diverse learners with exceptional needs require a specialized curriculum that will help them to develop socially and intellectually in a way that traditional pedagogical practice is unable to fulfill As educational technologies and theoretical approaches to learning continue to advance so do the opportunities for exceptional children *Special and Gifted Education Concepts Methodologies Tools and Applications* is an exhaustive compilation of emerging research theoretical concepts and real world examples of the ways in which the education of special needs and exceptional children is evolving Emphasizing pedagogical innovation and new ways of looking at contemporary educational practice this multi volume reference work is ideal for inclusion in academic libraries for use by pre service and in service teachers graduate level students researchers and educational software designers and developers **Rapid, Reproducible,**

and Robust Environmental Modeling for Decision Support: Worked Examples and Open-Source Software Tools Jeremy White,Michael Fienen,Catherine Moore,Anneli Guthke,2023-10-11 **Focused Observations, Third Edition** Gaye Gronlund,Marlyn James,2025-04-22 Intentional teaching begins with focused observations and systematic documentation of children s learning and development *Focused Observations Third Edition* explains why observation is one of the best methods to get to know each child well track progress and plan individualized curriculum It also provides tools and techniques to help you strengthen your observations create portfolios with rich documentation and support each child You will also learn how to share your findings with families and grow as an observer through review and reflection activities Learn answers to common questions about observation including Why should I use observation in my classroom What does effective observation and documentation look like How do I fit observation in so that it doesn t take away from teaching and interacting with children How do observation and documentation work with early learning guidelines Online videos with nineteen vignettes of children in action provide opportunities to practice observing children and capturing what you see This updated edition includes new examples and provider anecdotes as well as fresh references and research *Advances in Case-Based Reasoning* Peter Funk,Pedro A. González Calero,2004-11-16 The 7th European Conference on Case Based Reasoning ECCBR 2004 was held from August 30 through September 2 at the Complutense University of Madrid Spain ECCBR was born in Aberdeen UK 2002 after a series of European workshops held in Trento Italy 2000 Dublin Ireland 1998 Lausanne Switzerland 1996 Paris France 1994 and Kaiserslautern Germany 1993 ECCBR is the premier international forum for researchers and practitioners of case

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