

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-

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Assessment for Learning in the Early Years Foundation Stage Jonathan Glazzard,Denise Chadwick,Anne Webster,2010-03-12 Are you struggling with the complexities of assessment Demystifying the process of assessment for learning in the Early Years Foundation Stage EYFS Assessment for Learning in the Early Years Foundation Stage explains in straightforward language how to put principles into practice Looking at models of assessment the book draws heavily on examples of real assessments from practice and the relevant theory is explained in context Lessons from research are applied to best practice and issues covered include self assessment and peer assessmentcollecting evidence as a basis for making judgementshow to track the child s development in the six areas of learningusing assessment to inform future planningssummative assessment in the EYFSinvolving parents and carers in the assessment processusing assessment to support children with additional needsmoderation Crouch and Alers Occupational Therapy in Psychiatry and Mental Health Rosemary Crouch,Tania Buys,Enos Morankoana Ramano,Matty van Niekerk,Lisa Wegner,2024-08-14 Celebrating its evolution over thirty four years the sixth edition of Crouch and Alers Occupational Therapy in Psychiatry and Mental Health continues its legacy as a trailblazing guide reshaped to address the challenges of a post Covid globalised world Led by renowned expert Rosemary Crouch this edition embraces an inclusive perspective on human functionality social inclusion and participation in everyday life Highlighting the pressing need for occupational therapy s role in addressing the burden of mental health disorders it forecasts the staggering economic impact and emphasises prevention resilience building and adaptive participation in daily activities Featuring thirty interconnected chapters by seasoned practitioners and academics this book Aligns with international mental health standards and sustainable development policies emphasising universal

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educators implement and utilize performance assessments in educator preparation Together the chapters present research from various viewpoints from candidates faculty university supervisors and clinical partners using diverse methodologies and approaches The volume contributes significantly to the program assessment research landscape by providing examples of how performance assessments inform preparation at the intersection of praxis and research and campus and field These chapters provide a critical foundation for teacher educators eager to leverage performance assessments to improve their programs Diana B Lys EdD Assistant Dean of Educator Preparation and Accreditation School of Education University of North Carolina at Chapel Hill

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The Counselor and the Group, Fourth Edition James P. Trotzer,2013-08-21 This new more streamlined version of the 1999 third edition brings the existing materials and references up to date and omits information now readily available online and elsewhere The book is aimed at training group workers at the Masters level and may be used as a hands on text for group practitioners who are in the early stages of their group practice and or who want a resource that provides a structured problem solving approach to group work The book also features a specialty section on the topic of organizing and conducting crisis intervention groups using the model developed by Trotze

The Architect's Handbook of Professional

Practice American Institute of Architects, 2011-09-26 Architects must be proficient in a variety of business practices to contribute to manage or launch a successful firm They are responsible for the same kind of legal financial marketing management and administrative activities as any other professional Within these broad categories however there are many details including professional standards and documents that are unique to the profession of architecture *Digital Health and Wireless Solutions* Mariella Särestöniemi, Pantea Keikhosrokiani, Daljeet Singh, Erkki Harjula, Aleksei Tiulpin, Miia Jansson, Minna Isomursu, Mark van Gils, Simo Saarakkala, Jarmo Reponen, 2024-05-04 This two volume set constitutes the refereed proceedings of the First Nordic Conference on Digital Health and Wireless Solutions NCDHWS 2024 held in Oulu Finland during May 7-8 2024 The 51 full papers included in this book together with 7 short papers were carefully reviewed and selected from 100 submissions They were organized in topical sections as follows Part I Remote Care and Health Connectivity Architectures in 6G Era User Experience and Citizen Data Digitalization in Health Education Digital Health Innovations Digital Care Pathways Part II Clinical Decision Support and Medical AI Digital Care Pathways Novel Sensors and Bioinformatics Health Technology Assessment and Impact Evaluation Wireless Technologies and Medical Devices This book is open access **The Five Osteopathic Models** Giampiero Fusco, Ray Hruby, Christian Lunghi, Paolo Tozzi, 2017-06-01 Far from being simply a sequence of techniques as practised in many countries osteopathy is an independent primary health care system based on principles applied through a manual practice a unique profession that takes care of the whole person through the application of five models biomechanical neurological respiratory circulatory metabolic and behavioral These conceptual models of the relationship between structure and function allow osteopaths to evaluate treatment with the aim of promoting health rather than curing disease This book is intended as a manual for both students and osteopathic professionals interested in exploring the principles objectives origins and application of the five osteopathic models from traditional concepts up to a modern vision based on evidence and critical thinking The selection criteria and rules for the application of each model with their limitations and potential are examined to enable the reader to understand the rationale behind their use in a comprehensive holistic and patient centered practice *Preprocessing Electronic Satellite Observations* Joseph E. Gross (III.), 1968 *Internal Audit Practice from A to Z* Patrick Onwura Nzechukwu, 2016-11-25 This book addresses the practice of internal auditing using GAAS Generally Accepted Auditing Standards GAGAS Generally Accepted Government Auditing Standards and International Standards for the Professional Practice of Internal Auditing Standards as enunciated by the IIA Unique in that it is primarily written to guide internal auditors in the process and procedures necessary to carry out professionally accepted internal audit functions it includes everything necessary to start complete and evaluate an internal audit practice simplifying the task for even non professionals **A Compilation of Solar Radio Sweep-frequency Observations, 1955-1964** Hans J. E. Fischer, 1968 The solar radio sweep frequency observations and hours of patrol from five radio observatories for the period 1955 through 1964 have been compiled edited and put

onto two magnetic tapes One tape contains the hours of radio patrol from the observatories at Ann Arbor Bigpine Boulder Sydney and Fort Davis Another tape contains the sweep frequency observations in the meter and dekameter wavelengths of the radio spectrum from these observatories The sources methods of reduction and the format and content of the data on tape are described Statistics related to various distributions of the radio spectral activity reported by each station are discussed and demonstrate an urgent need for standard policies in detecting scaling classifying and reporting these data

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

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Theory, Methodology, Tools and Applications for Modeling and Simulation of Complex Systems Lin Zhang, Xiao Song, Yunjie Wu, 2016-09-21 This four volume set CCIS 643 644 645 646 constitutes the refereed proceedings of the 16th Asia Simulation Conference and the First Autumn Simulation Multi Conference AsiaSim SCS AutumnSim 2016 held in Beijing China in October 2016 The 265 revised full papers presented were carefully reviewed and selected from 651 submissions The papers in this third volume of the set are organized in topical sections on Cloud technologies in simulation applications fractional calculus with applications and simulations modeling and simulation for energy environment and climate SBA virtual prototyping engineering technology simulation and Big Data

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