

Single-case and Small-*n* Experimental Designs

*A Practical Guide to
Randomization Tests*

Second Edition

Pat Dugard, Portia File,
and Jonathan Todman

Single Case And Small N Experimental Designs

Shlomo S. Sawilowsky



Single Case And Small N Experimental Designs:

Single-case and Small-n Experimental Designs John B. Todman, Pat Dugard, 2001-03 This book is a practical guide to help researchers draw valid causal inferences from small scale clinical intervention studies It should be of interest to teachers of and students in courses with an experimental clinical component as well as clinical researchers Inferential statistics used in the analysis of group data are frequently invalid for use with data from single case experimental designs Even non parametric rank tests provide at best approximate solutions for only some single case and small n designs Randomization Exact tests on the other hand can provide valid statistical analyses for all designs that incorporate a random procedure for assigning treatments to subjects or observation periods including single case designs These Randomization tests require large numbers of data rearrangements and have been seldom used partly because desktop computers have only recently become powerful enough to complete the analyses in a reasonable time Now that the necessary computational power is available they continue to be under used because they receive scant attention in standard statistical texts for behavioral researchers and because available programs for running the analyses are relatively inaccessible to researchers with limited statistical or computing interest This book is first and foremost a practical guide although it also presents the theoretical basis for Randomization tests Its most important aim is to make these tests accessible to researchers for a wide range of designs It does this by providing programs on CD ROM that allow users to run analyses of their data within a standard package Minitab Excel or SPSS with which they are already familiar No statistical or computing expertise is required to use these programs This is the new stats for single case and small n intervention studies and anyone interested in this research approach will benefit

Single-case and Small-n Experimental Designs Pat Dugard, Portia File, Jonathan Todman, 2012-04-27 This practical guide explains the use of randomization tests and provides example designs and macros for implementation in IBM SPSS and Excel It reviews the theory and practice of single case and small n designs so readers can draw valid causal inferences from small scale clinical studies The macros and example data are provided on the book's website so that users can run analyses of the text data as well as data from their own studies The new edition features More explanation as to why randomization tests are useful and how to apply them More varied and expanded examples that demonstrate the use of these tests in education clinical work and psychology A website with the macros and datasets for all of the text examples in IBM SPSS and Excel Exercises at the end of most chapters that help readers test their understanding of the material A new glossary that defines the key words that appear in italics when they are first introduced A new appendix that reviews the basic skills needed to do randomization tests New appendices that provide annotated SPSS and Excel macros to help readers write their own or tinker with the ones provided in the book The book opens with an overview of single case and small n designs why they are needed and how they differ from descriptive case studies Chapter 2 focuses on the basic concepts of randomization tests Next how to choose and implement a randomization design is reviewed including material on how to

perform the randomizations how to select the number of observations and how to record the data Chapter 5 focuses on how to analyze the data including how to use the macros and understand the results Chapter 6 shows how randomization tests fit into the body of statistical inference Chapter 7 discusses size and power The book concludes with a demonstration of how to edit or modify the macros or use parts of them to write your own Ideal as a text for courses on single case small n design and or randomization tests taught at the graduate level in psychology especially clinical counseling educational and school education human development nursing and other social and health sciences this inexpensive book also serves as a supplement in statistics or research methods courses Practitioners and researchers with an applied clinical focus also appreciate this book s accessible approach An introduction to basic statistics SPSS and Excel is assumed

Single-Case and Small-n Experimental Designs John B.Todman,2001 This book is a practical guide to help researchers draw valid causal inferences from small scale clinical intervention studies It should be of interest to teachers of and students in courses with an experimental clinical component as well as clinical researchers

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Single Subject Designs in Biomedicine Janine E. Janosky, Shelley L. Leininger, Michael P. Hoerger, Terry M. Libkuman, 2009-07-07 Single Subject Designs in Biomedicine draws upon the rich history of single case research within the educational and behavioral research settings and extends the application to the field of biomedicine Biomedical illustrations are used to demonstrate the processes of designing implementing and evaluating a single subject design Strengths and limitations of various methodologies are presented along with specific clinical areas of application in which these applications would be appropriate Statistical and visual techniques for data analysis are also discussed The breadth and depth of information provided is suitable for medical students in research oriented courses primary care practitioners and medical specialists seeking to apply methods of evidence practice to improve patient care and medical researchers who are expanding their methodological expertise to include single subject designs Increasing awareness of the utility in the single subject design could enhance treatment approach and evaluation both in biomedical research and medical care settings

Handbook of Evidence-Based Practice in Clinical Psychology, Child and Adolescent Disorders Michel Hersen, Peter Sturmey, 2012-06-05 Handbook of Evidence Based Practice in Clinical Psychology Volume 1 covers the evidence based practices now identified for treating children and adolescents with a wide range of DSM disorders Topics include fundamental issues developmental disorders behavior and habit disorders anxiety and mood disorders and eating disorders Each chapter provides a comprehensive review of the evidence based practice literature for each disorder and then covers several different treatment types for clinical implementation Edited by the renowned Peter Sturmey and Michel Hersen and featuring contributions from experts in the field this reference is ideal for academics researchers and libraries

Towards a Synergistic Combination of Research

and Practice in Software Engineering Piotr Kosiuczenko, Lech Madeyski, 2017-08-04 This book reports on recent advances in software engineering research and practice Divided into 15 chapters it addresses languages and tools development processes modelling simulation and verification and education In the first category the book includes chapters on domain specific languages software complexity testing and tools In the second it reports on test driven development processing of business rules and software management In turn subsequent chapters address modelling simulation and verification of real time systems mobile systems and computer networks and a scrum based framework The book was written by researchers and practitioners the goal being to achieve a synergistic combination of research results achieved in academia and best practices used in the industry and to provide a valuable reference guide for both groups

Experimental Design and Statistics for Psychology Fabio Sani, John Todman, John B. Todman, 2006 Experimental Design and Statistics for Psychology A First Course is a concise and accessible introduction to the design of psychology experiments and the statistical tests used to make sense of their results Written in a straightforward effective style and making abundant use of charts diagrams and figures this book assumes no prior knowledge of statistics and will be of benefit to all students needing a clear pathway into this often confusing area The book introduces the main aspects of experimental design and statistics including how to formulate precise hypotheses and design experiments aimed at testing them coverage of different aspects of experimental design descriptive and inferential statistical analysis of experimental data the difference between experimental and correlational studies detailed instructions on how to perform statistical tests with SPSS An invaluable step by step guide to all psychology students needing a firm grasp of the basics Experimental Design and Statistics for Psychology A First Course will also fire the imagination of more ambitious students by tackling some of the topic s more complex controversial issues This book is also supported by an online password protected lecturer resource site which features test questions downloadable figures and tables and sample SPSS data sets Visit www.blackwellpublishing.com/sani

Advanced Methods in Family Therapy Research Richard B Miller, Lee N. Johnson, 2013-12-17 Research is vital in moving the field of family therapy forward but the myriad of possibilities inherent in working with systems and individuals can overwhelm even the most seasoned researcher Advanced Methods in Family Therapy Research is the best resource to address the day to day questions that researchers have as they investigate couples and families and the best source for learning long term theory and methodology The contributors of this volume share their wisdom on a wide variety of topics including validity concerns measuring interpersonal process and relational change dyadic data analysis demonstrated through a sample research study mixed methods studies and recruitment and retention The volume contains one of the most detailed descriptions of data collections and covers interviewing using questionnaires and observing brain activity Also addressed are suggestions to meaningfully reduce cultural bias to conduct ethical research and in the Health Services Research chapter to examine interventions for clients in various income brackets A separate ground breaking chapter also addresses psychophysiological

research in a couple and family therapeutic context As an added benefit readers will learn how to become informed consumers of journal articles and studies how to produce quality publishable research and how to write fundable grant proposals Each chapter provides a clear and detailed guide for students researchers and professionals and as a whole Advanced Methods in Family Therapy Research advances the field by teaching readers how to provide evidence that marriage and family therapy not only relieves symptoms but also effects behavioral change in all family members

Understanding Research in Clinical and Counseling Psychology Jay C. Thomas, Michel Hersen, 2011-03-01 Understanding Research in Clinical and Counseling Psychology Second Edition is written and designed for graduate students in the psychology and counseling fields for whom the value of psychological research is not always readily apparent Contributed to by experts in their respective fields this text presents research as an indispensable tool for practice a tool that is used every day to advance knowledge and improve assessment treatment choice and client outcomes The book is divided into four logical parts Research Foundations Research Strategies Research Practice and finally Special Problems Included is a chapter that addresses one of the most important controversies the distinction between realistic and gold standard efficacy studies The remainder of the book addresses salient issues such as conducting research in various cultures operating an empirically oriented practice and performing research with families children and the elderly Students and professors will find the coverage ample and penetrating without being too overwhelming **The SAGE Dictionary of Quantitative Management**

Research Luiz Moutinho, Graeme D Hutcheson, 2011-02-09 Electronic Inspection Copy available for instructors here A must have reference resource for quantitative management researchers the Dictionary contains over 100 entries covering the fundamentals of quantitative methodologies covering both analysis and implementation and examples of use as well as detailed graphics to aid understanding Every entry features An introduction to the topic Key relevant features A worked example A concise summary and a selection of further reading suggestions Cross references to associated concepts within the dictionary

Research Methods in Clinical Psychology Chris Barker, Nancy Pistrang, Robert Elliott, 2015-12-14 Fully updated to reflect the latest developments the third edition of Research Methods In Clinical Psychology offers a comprehensive introduction to the various methods approaches and strategies for conducting research in the clinical psychology field Represents the most accessible user friendly introduction to conducting and evaluating research for clinical psychologists and related professionals Ideal for students and practitioners who wish to conduct their own research or gain a better understanding of published research Addresses important issues such as philosophical underpinnings of various methodologies along with socio political issues that arise in clinical and community settings Step by step guidance through all phases of a clinical psychology research project from initial concept and groundwork through to measurement design analysis and interpretation Updates to this edition include new or expanded coverage of such topics as systematic review and literature searching methods modern psychometric methods guidance on choosing between different qualitative approaches

and conducting psychological research via the Internet

Choosing Methods in Mental Health Research Mike

Slade, Stefan Priebe, 2007-01-24 Choosing Methods in Mental Health Research is concerned with how to choose the most appropriate mental health research method not only to address a specific question but to maximise the potential impact on shaping mental health care

Single Subject Research Methodology in Behavioral Sciences Jennifer R. Ledford, David L. Gast, 2009-10-16

This book is written for student researchers practitioners and university faculty who are interested in answering applied research questions and objectively evaluating educational and clinical practices The basic tenet of single subject research methodology is that the individual is of primary importance and that each individual study participant serves as his or her own control It is because of this focus on the individual that clinicians and educators have been using single subject research designs for over 40 years to answer applied research questions Although the methodology has its roots in behavioral psychology and applied behavioral analysis it has been used by applied researchers across a variety of disciplines such as special education speech and communication sciences language and literacy therapeutic recreation occupational therapy and social work Key features include the following Applied Focus More than any other text this one focuses on the nuts and bolts of how to use single subject research in constructing one's research project or in evaluating one's professional practice Numerous and Varied Examples The book abounds in examples from special education and other disciplines and populations within the applied research literature Reader Friendly The text is written in a reader friendly style features sample data sheets and graphic displays and includes detailed guidelines for conducting visual analysis of graphic data Expertise The author's long and distinguished career in teaching single subject research is augmented in this book by contributions from other experts in the field

Evidence-Based Assessment in ASD (Autism Spectrum Disorder)

Kenneth Aitken, 2017-09-21 This practical research based book introduces and reviews the evidence based measures used in the commissioning and auditing of services for people with ASD where the ability to demonstrate the benefits and effects of support and intervention is increasingly important

Real Data Analysis Shlomo S. Sawilowsky, 2007-01-01

The invited authors of this edited volume have been prolific in the arena of Real Data Analysis RDA as it applies to the social and behavioral sciences especially in the disciplines of education and psychology Combined this brain trust represents 3 247 articles in refereed journals 127 books published US 45 3 Million in extramural research funding 34 teaching and 92 research awards served as Editor Assistant Editor Editorial Board Member for 95 peer reviewed journals and provided ad hoc reviews for 362 journals Their enormous footprint on real data analysis is showcased for professors researchers educators administrators and graduate students in the second text in the AERA SIG ES Quantitative Methods series

Evidence-Based Assessment Tools in ASD Kenneth Aitken, 2015-03-21

How can you decide on the appropriate measures to use in assessing someone with an Autism Spectrum Disorder This book presents a comprehensive introduction to a complete range of tools for both core and subsidiary assessment across the lifespan providing key information that will

be a useful part of the decision making process **Test Yourself: Research Methods and Design in Psychology** Penney Upton, Dominic Upton, 2011-09-21 Test Yourself Research Methods and Design in Psychology provides essential learning and practice through assessment for psychology students It enables year 1 and 2 undergraduates to assess their confidence and competence and tackle the types of questions they will face in their formal university assessments The book includes over 200 multiple choice and extended multiple choice questions designed to assess depth of knowledge At the end of each chapter sample essay questions are provided plus further guidance to complement the multiple choice questions and further test understanding Information is provided to help students make sense of their results and identify strengths and weaknesses **Handbook of Clinical Psychology, Volume 2** Michel Hersen, Alan M. Gross, 2008-02-13 Handbook of Clinical Psychology Volume 2 Children and Adolescents provides comprehensive coverage of the fundamentals of clinical psychological practice for the young from assessment through treatment including the innovations of the past decade in ethics cross cultural psychology psychoneuroimmunology cognitive behavioral treatment psychopharmacology and pediatric psychology

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