

# **QUANTITATIVE ANALYSIS APPROACHES TO QUALITATIVE DATA: WHY, WHEN AND HOW - Savitri Abeyasekera**

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## **1. Introduction**

In many research studies involving the use of participatory tools, much of the information gathered is of a qualitative nature. Some of this will contribute to addressing specific research questions, while other parts provide a general understanding of peoples' livelihoods and constraints. The aim of this paper is to focus on the former. The paper concentrates on some quantitative analysis approaches that can be applied to qualitative data. A major objective is to demonstrate how qualitative information gathered during PRA work can be analysed to provide conclusions that are applicable to a wider target population. Appropriate sampling is of course essential for this purpose, and it will be assumed in what follows that any sampling issues have been satisfactorily addressed to allow generalization of results from the data analysis to be meaningful.

Most emphasis in this paper will be given to the analysis of data that can be put in the form of ranks, but some analysis approaches suitable for other types of qualitative data will also be considered. The general questions of *why* and *when* are discussed first, but the main focus will be on issues relating to the *how* component of data analysis. It is not the intention to present implementation details of any statistical analysis procedures, nor to discuss how output resulting from the application of statistical software could be interpreted. The aim is to highlight a few types of research questions that can be answered on the basis of qualitative information, to discuss the types of data format that will lend themselves readily to appropriate data analysis procedures and to emphasise how the data analysis can be benefited by recognizing the data structure and paying attention to relevant sources of variation.

## **2. Why use quantitative approaches?**

Quantitative methods of data analysis can be of great value to the researcher who is attempting to draw meaningful results from a large body of qualitative data. The main beneficial aspect is that it provides the means to separate out the large number of confounding factors that often obscure the main qualitative findings. Take for example, a study whose main objective is to look at the role of non-wood tree products in livelihood strategies of smallholders. Participatory discussions with a number of focus groups could give rise to a wealth of qualitative information. But the complex nature of inter-relationships between factors such as the marketability of the products, distance from the road, access to markets, percent of income derived from sales, level of women participation, etc., requires some degree of quantification of the data and a subsequent analysis by quantitative methods. Once such quantifiable components of the data are separated, attention can be focused on characteristics that are of a more individualistic qualitative nature.

Quantitative analytical approaches also allow the reporting of summary results in numerical terms to be given with a specified degree of confidence. So for example, a statement such as "45% of households use an unprotected water source for drinking" may be enhanced by providing 95% confidence limits for the true proportion using unprotected water as ranging from 42% to 48%. Here it is possible to say with more than 95% confidence that about half the households had no access to a protected water supply, since the confidence interval lies entirely below 50%.

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**Gabby Koutoukidis, Jodie Hughson**



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[Kielhofner's Research in Occupational Therapy](#) Renee R Taylor, 2017-01-05 With an international team of expert contributors Renee Taylor carries on Gary Kielhofner's innovative work in the 2nd Edition of his comprehensive research methodologies text This guide bridges the gap between theorists and practitioners It focuses on the relevance and logic of research to provide a practical demystified approach to conducting applied research in the field for graduate students and clinicians You'll begin with an

introduction to the nature and scope of research and its place in OT and then explore research designs measurements and statistical analysis for qualitative quantitative and mixed studies You ll examine the steps and procedures required to conduct research and how research can be used to shape professional practice and improve patient care **Psychology Research**

**Methods** Elizabeth Brondolo,2021-04-25 Psychology Research Methods A Writing Intensive Approach provides instruction in critical concepts and processes in behavioral science research methods and skills in formulating and writing research papers The book creates an experiential approach to learning with chapters organized around the task of writing a complete APA style research paper The chapters consist of instructional text excerpts from published research articles and learning activities The reading activities help students develop skills in reading scientific research evaluating and analyzing scientific information and assembling evidence to make a scientific argument The writing activities help students to break down the process of writing a research paper into manageable and meaningful components As students complete the chapter activities they assemble their research paper The book teaches research methods in a clinical context inspired by the National Institute of Health s Science of Behavior Change Program Students acquire knowledge about research methods as they read research articles about behavioral health disorders including studies about their prevalence causes and treatment Teaching research methods with a clinical focus helps students appreciate the value of psychological research Psychology Research Methods A Writing Intensive Approach provides instruction in critical concepts and processes in behavioral science research methods and skills in formulating and writing research papers The book creates an experiential approach to learning with chapters organized around the task of writing a complete APA style research paper The chapters consist of instructional text excerpts from published research articles and learning activities The reading activities help students develop skills in reading scientific research evaluating and analyzing scientific information and assembling evidence to make a scientific argument The writing activities help students to break

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**Conducting Research** Gül Seçkin, Lawrence T. Orcher, 2016-10-14 Conducting Research prepares students to conduct their first empirical research study with quantitative and qualitative methods covered in detail The emphasis is on providing practical easy to follow advice on how to conduct a first research project This book walks students through each step of the research process from selecting a research topic and participants to analysing data and presenting research findings Notably the third edition places a heightened emphasis on digital social science research methods encompassing both quantitative and qualitative methodological approaches The primary focus is on providing practical and easily comprehensible guidance for successfully executing an empirical project for a research methods and design course The updated real research examples serve to exemplify the application of research principles in an empirical social science research context further enhancing the students preparedness for their research project Furthermore the inclusion of enhanced online resources for both students and instructors renders this an ideal text for social sciences courses in multiple disciplines such as sociology psychology education and healthcare With online resources for students and instructors this is the ideal text across the social sciences such as sociology psychology healthcare and education New to this edition A new chapter on digital social science methods incorporating both quantitative and qualitative research methodologies A new chapter on research ethics to support the foundations of research knowledge All new support materials available online for instructors and students

**Developing Effective Research Proposals** Keith Punch, 2000-05-15 This accessible how to guide can be used as a workbook to the author s An Introduction to Social Research or as an independent guide It is a guide to preparing a well constructed research proposal then presenting it effectively

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**Tabbner's Nursing Care** Gabby Koutoukidis, Jodie Hughson, 2012-10 This text covers a wide range of issues surrounding

nursing midwifery and health visiting The topics it covers are the structure and functions of the human body nursing care and nursing needs care of the individual with a body system disorder and special aspects of nursing care This edition written for Australia and NZ students Research Methods in Physical Activity Jerry R. Thomas,Jack K. Nelson,Stephen J. Silverman,2011 This key text offers an engaging overview of the research process and methods for students within all subdisciplines of sport and exercise sciences New chapters have been specifically created to future models of research that employ both quantitative and qualitative methods **Researching Society and Culture** Clive Seale,1998-05-21 Comprehensive and well illustrated this is the definitive introductory textbook on methods and methodology for students in the social sciences and cultural studies It is structured around three key objectives to provide a full overview of and introduction to the research methods used in social science and cultural studies to provide undergraduate and postgraduate students with the skills needed to begin research with working examples from actual research and to examine the methodological and theoretical issues involved in doing research Researching Society and Culture is divided into four parts the first discusses the philosophy of social science developments in social theory methodology and the use of hi *Principles and Practice of Nursing Research* ,1995 A comprehensive text covering concepts of nursing research and use of research process evaluation of nursing research and use of research in practice Introduction to Research in Education Donald Ary, Lucy Cheser Jacobs,Asghar Razavieh,2002 This book is designed for use in introductory courses in education research which is a standard offering in nearly every graduate program in Schools and Colleges of Education Courses are designed to provide students with an overview of quantitative and qualitative research methods addressing such topics as research designs sample selection data collection experimental research and data analysis **Writing in the Undergraduate Sociology Curriculum** Kay Stokes,2002 **The Practical Researcher** Dana Dunn,2012-11-27 This text offers updated online searching materials reviewed by reference librarians updated sample references written in APA style new material on learning to identifying the embedded outline found in published APA style papers as a way to learn to outline papers additional discussion of diary studies beeper studies and experience sampling methods A new Preface and Acknowledgements is also included as well as updated suggested references and at the end of each chapter Encyclopedia of Case Study Research: L - Z Albert J. Mills,Gabrielle Durepos,Elden Wiebe,2010 Implementation of the ward based outreach teams programme in the rural area Rodney Mulelu,2018-06-15 Academic Paper from the year 2016 in the subject Health Public Health grade MBA course MBA language English abstract This paper investigates the implementation of ward Based Outreach Teams programme in the rural areas of the Kgetleng sub district in the North West Province of South Africa The Department of Health has set a long term goal of establishing National Health Insurance in the country This would provide equitable and universal coverage for a defined package of healthcare One of the key pillars of National Health Insurance is the re engineering of Primary Health Care which has at its heart in the development of Ward Based Outreach

Teams who will take the responsibility for specific groups of households In this regard the South African Department of Health has considered re engineering of the Primary Health Care model in the country in making sure health resources technology and quality services are available accessible and affordable to all communities The North West province Department of Health is currently piloting the Primary Health Care re engineering programme which include the Ward Based Outreach Teams programme in all four Districts Bojanala Ngaka Modiri Molema Dr Kenneth Kaunda and Dr Ruth Segomotsi Mompoti In Bojanala District the pilot site is in ward five in Kgetleng sub district In this paper the quantitative research design was used where self administered questionnaires were provided to the Community Health Workers CHW and the Outreach team leaders OTL for data collection The findings of the paper indicated that Ward Based Outreach Teams contribute towards a better understanding of local health care needs inform service priorities refer patients to different stakeholders and build stronger relationships between service providers and users in the communities The key elements to practice this service are person centred comprehensive care collaboration between people practitioners and continuity of health care in the community

**URPE** ,1999 *Communication Research Methods in Postmodern Culture* Larry Z. Leslie,2010 *Communication Research Methods in Postmodern Culture* explores communication research from a postmodern perspective while retaining key qualitative and quantitative research methods The author uses easy to understand language to incorporate new research methods inspired by contemporary culture and includes review questions and suggested activities designed to help readers understand and master communication research The blend of new and traditional methods creates a book appropriate to the study of communication in an increasingly complex cultural environment

*Nursing Research Secrets* Kathleen S. Oman,Mary E. Krugman,Regina M. Fink,2003 Focused and concise this text provides essential information about how to select a research topic how to get started where to go for funding who to include on your research team how to collect reliable data how to analyze your data and formulate valid conclusions and where to submit your results for publication The questions and answers address all of the major areas of research with emphasis on practical time saving tips that explain the various stages of the research process and facilitate publication in journals and presentation at conferences Nurses in all fields will find the informal tone enjoyable and the information valuable

Nursing Research Geri LoBiondo-Wood,Judith Haber,2002 This comprehensive critical appraisal tool examines the roles of research in nursing the processes of qualitative and quantitative research the application and analysis of nursing research and evidence based practice Interactive learning aids throughout the book such as research articles critical thinking challenges and critiquing criteria help readers master important material and learn to apply the principles of research to nursing practice

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### **Table of Contents Sample Quantitative Research Proposal Paper**

1. Understanding the eBook Sample Quantitative Research Proposal Paper
  - The Rise of Digital Reading Sample Quantitative Research Proposal Paper
  - Advantages of eBooks Over Traditional Books
2. Identifying Sample Quantitative Research Proposal Paper
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Sample Quantitative Research Proposal Paper
  - User-Friendly Interface
4. Exploring eBook Recommendations from Sample Quantitative Research Proposal Paper
  - Personalized Recommendations
  - Sample Quantitative Research Proposal Paper User Reviews and Ratings
  - Sample Quantitative Research Proposal Paper and Bestseller Lists

5. Accessing Sample Quantitative Research Proposal Paper Free and Paid eBooks
  - Sample Quantitative Research Proposal Paper Public Domain eBooks
  - Sample Quantitative Research Proposal Paper eBook Subscription Services
  - Sample Quantitative Research Proposal Paper Budget-Friendly Options
6. Navigating Sample Quantitative Research Proposal Paper eBook Formats
  - ePub, PDF, MOBI, and More
  - Sample Quantitative Research Proposal Paper Compatibility with Devices
  - Sample Quantitative Research Proposal Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Sample Quantitative Research Proposal Paper
  - Highlighting and Note-Taking Sample Quantitative Research Proposal Paper
  - Interactive Elements Sample Quantitative Research Proposal Paper
8. Staying Engaged with Sample Quantitative Research Proposal Paper
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Sample Quantitative Research Proposal Paper
9. Balancing eBooks and Physical Books Sample Quantitative Research Proposal Paper
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Sample Quantitative Research Proposal Paper
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Sample Quantitative Research Proposal Paper
  - Setting Reading Goals Sample Quantitative Research Proposal Paper
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Sample Quantitative Research Proposal Paper
  - Fact-Checking eBook Content of Sample Quantitative Research Proposal Paper
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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