

LIMINAL RESEARCH CONSULT

WORKSHOPS

Face-to-face or
online

QUANTITATIVE RESEARCH WORKSHOP SERIES

1. Quantitative research design for researchers using questionnaires: 1 day
2. Essential statistical analysis using a questionnaire as an instrument: 1 day
3. Intermediate statistical analysis using a questionnaire as an instrument: 1-2 days
4. Interpretation and write-up of quantitative results generated from questionnaires: 1 day
5. Structural Equation Modelling and Confirmatory Factor Analysis for Questionnaire-Based Researchers: 1 day

ANALYSIS WITH A STATISTICAL PACKAGE

1. Introduction to 'R': 2 $\frac{1}{2}$ hours online
2. Introduction to 'SPSS': 2 $\frac{1}{2}$ hours online
3. Essential statistical analysis using the statistical package 'SPSS': 3 days
4. Intermediate statistical analysis using the statistical package 'SPSS': 2 days

QUALITATIVE SERIES

1. Qualitative research Design: 1 day
2. Developing an Interview framework: 1 day
3. Roadmap to writing a qualitative proposal: 1 day
4. Qualitative analysis: The thematic basis of coding interviews: 1 day

QUALITATIVE DATA ANALYSIS SOFTWARE (QDA'S)

1. Coding and reporting in 'ATLAS.ti': 2 days
2. Qualitative Coding interviews in excel: 1 day

ADDITIONAL WORKSHOPS

1. Supervising a quantitative research project: 1 day
2. Introduction to Quantitative Research: 1 day
3. Optimising Statistical Analysis using AI (collaborating with WWIS): 1 day
4. Integrating approaches: Unleashing the Power of Mixed-Methods Research: 2 days with 2 presenters

REQUEST YOUR TAILOR-MADE WORKSHOP:
CUSTOMIZED TO YOUR NEEDS!!!



QUANTITATIVE OUTLINE OF WORKSHOPS



QUANTITATIVE RESEARCH DESIGN FOR RESEARCHERS USING QUESTIONNAIRES

*Proposal

- The research process
- The research problem
- Research hypotheses
- Research approaches
- Research design
- Experimental design
 - Repeated measures
- Questionnaire validity and reliability
- Choosing a validated scale
- Online questionnaires and data format
- Sampling
- Statistical techniques for the questionnaire

1 full day

ESSENTIAL STATISTICAL ANALYSIS USING A QUESTIONNAIRE AS INSTRUMENT

*Analysis

- The statistical analysis process.
- Reading raw data into a statistical package.
- Cleaning and verification of data.
- Validation of the research instrument.
- Descriptive statistics and graphs.
- Draw customized tables.
- Exploratory analysis.
- Hypothesis testing.
- Conduct a proper statistical analysis
- Decide on a statistical technique.
- Statistical techniques:
 - Exploratory Factor Analysis
 - Cronbach Alpha Coefficient
 - Independent T-test
 - Paired T-test, ANOVA
 - Pearson Chi-square test
 - Correlation
 - Simple Linear Regression.

1 full day

INTERMEDIATE STATISTICAL ANALYSIS USING A QUESTIONNAIRE AS INSTRUMENT

*Analysis

- Pitfalls in the analysis process.
- Assumption of the statistical techniques and remedies when assumptions cannot be met.
- Deciding on a statistical technique.
- Non-parametric techniques such as the Kruskal-Wallis Test and Mann Whitney test
- TWO-WAY ANOVA with interactions
- Multiple Linear Regression and dummy variables
- Hierarchical Regression
- Confirmatory Factor Analysis
- Structural Equation Modeling (SEM) with output from 'R.'

1-2 full days

WORKSHOPS

INTERPRETATION AND WRITE-UP OF QUANTITATIVE RESULTS GENERATED FROM QUESTIONNAIRES

***Write-up**

- Structure of reporting
- Reporting on a research methodology
- Reporting of statistical techniques for comparing groups
- Reporting of statistical techniques for relating variables
- Writing up of a Structural Equation Model (SEM), using a template provided
- Discussion of participants own writing up (if time permits)

1 full day

NEW!

SUPERVISING A QUANTITATIVE RESEARCH PROJECT

***General**

- The research process
- The research problem
- Research hypotheses
- Research approaches
- Research design
- Experimental design
 - Repeated measures
- Questionnaire validity and reliability
- Choosing a validated scale
- Online questionnaires and data format
- Sampling
- Statistical packages
- Choose a statistical technique
- How to conduct a proper statistical analysis

1 full day

NEW!

INTRODUCTION TO QUANTITATIVE RESEARCH

***General**

- Alignment of design and analysis
- Types of data
- When to use Quantitative research
- When to use Qualitative research
- Mixed methods strategies
- Types of research design
- Measuring instruments and experiments
- Validity and reliability of questionnaire
- Variables and levels of measurement
- Choosing a validated scale
- Online questionnaires and data format
- Sampling
- Statistical packages
- Choose a statistical technique
- How to conduct a proper statistical analysis
- Reporting example in quantitative research

1 full day



QUANTITATIVE OUTLINE OF WORKSHOPS

INTRODUCTION TO R (FOR BEGINNERS)

- Installation
- Importing raw data
- Working with datasets, variables and objects.
- Choose variables and rows
- Calculate descriptive statistics.
- Do a basic plot
- Save output

* Analysis

1-2 full days

INTRODUCTION TO SPSS

- Import raw data, for example MS Excel data files, into SPSS
- Work with datasets and variables.
- Select variables from a dataset.
- Calculate descriptive statistics.
- Conduct basic plots.
- Save output from SPSS

* Analysis

2.5 hours online

ESSENTIAL STATISTICAL ANALYSIS USING THE STATISTICAL PACKAGE SPSS

- Reading in raw data
- Cleaning and verification
- Validation of the research instrument
- Calculate descriptive statistics and graphs.
- Draw customized tables.
- Conduct Exploratory analysis

- Statistical techniques:
 - Exploratory Factor Analysis
 - Cronbach Alpha Coefficient
 - Independent T-test, Paired T-test,
 - ANOVA
 - Pearson Chi-square test,
 - Correlation
- Simple Linear Regression.

* Analysis

3 full days

INTERMEDIATE STATISTICAL ANALYSIS USING THE STATISTICAL PACKAGE SPSS

- Pitfalls in the analysis process
- Statistical analysis process followed in SPSS
- How statistical techniques work and assumptions
- Remedies when assumptions cannot be met
- Decide on a statistical technique.
- Non-parametric techniques:
- Kruskal-Wallis Test and Mann Whitney test

- TWO-WAY ANOVA with interactions
- Multiple Linear Regression and dummy variables
- Hierarchical Regression

* Analysis

1 full day



QUALITATIVE OUTLINE OF WORKSHOPS

GUIDING PRINCIPLES FOR QUALITATIVE RESEARCH DESIGN

*Proposal

- Qualitative research design
 - Overview of the research process in qualitative studies
 - Developing research questions for qualitative research
 - Selection and collection of appropriate data
 - Ensuring data quality in qualitative research
 - Brief exploration of qualitative data analysis
- 1 full day

DEVELOPING AN INTERVIEW FRAMEWORK

*Proposal

- Developing a robust interview framework
 - Exploring the art of crafting effective interview structures
 - Gaining insights into formulating clear research objectives
 - Selecting appropriate and relevant interview questions
 - Structuring the interview flow
 - Ensuring trustworthiness
- 1 full day

ROADMAP TO WRITING A QUALITATIVE PROPOSAL

*Proposal

Gain necessary skills to craft a comprehensive and compelling qualitative research proposal.

- Inquiring the research problem.
 - Literature review's role
 - Objectives.
 - Theoretical framework.
 - Research questions.
 - Methodology.
 - Data collection.
 - Analysis techniques.
- 1 full day



QUALITATIVE OUTLINE OF WORKSHOPS

QUALITATIVE ANALYSIS: THE THEMATIC BASIS OF CODING INTERVIEWS

*Analysis

Delve into the thematic basis of coding interviews in qualitative analysis.

- Principles and techniques of coding qualitative data.
- Identifying themes.
- Creating a deductive coding framework.
- Coding inductively

Practical Experience:

- Analysing interview transcripts.
- Identifying meaningful themes.
- Organizing themes into a coherent coding structure.

1 full day

CODING AND REPORTING IN ATLAS.TI V23 (WINDOWS)

*Analysis & write-up

Comprehensive 2-day workshop focusing on coding and reporting qualitative data using ATLAS.ti. V23

Explore ATLAS.ti functionalities:

- Creating coding schemes.
- Applying codes to data.
- Organizing coding hierarchies.
- Retrieving coded information.

Insights into:

- Data management.
- Exploring relationships between codes.
- Visualizing data through ATLAS.ti's reporting features.

2 full days

QUALITATIVE CODING INTERVIEWS IN EXCEL

*Analysis

Hands-on 1-day workshop. Focus on coding qualitative interviews using Excel.

- Setting up macros for MS word interviews / documents
- Sorting and editing coding scheme in excel
- Setting up a coding system in Excel.
- Assigning codes to interview data.
- Organizing and managing coded data.
- Identifying patterns and themes.
- Filtering valuable insights from qualitative interview data.

1 full day



MIXED-METHOD

WORKSHOPS

INTEGRATING APPROACHES: UNLEASHING THE POWER OF MIXED-METHODS RESEARCH

*Analysis & write-up

- Overview of both quantitative and qualitative design
- Explore the **synergistic potential** of combined data collection and analysis techniques.
- Choosing a mixed strategy
- Analysis: practical examples and step by step outline
- Write-up
- Joint Displays

2 full days with Hennie & Monique

BACKGROUND OF THE PRESENTERS

Mrs. Monique van der Walt

Research Psychologist

Qualification:
Master of Arts in Research Psychology

Experience:

- 7years in the field of Research Psychology.
- Extensive knowledge in research methodologies and qualitative approaches.
- Consulting roles in higher education and the private sector.



LIMINAL RESEARCH CONSULT

Mr. Hennie Gerber

Statistician

Qualification: Masters degree in Statistics

Experience:

- 27 years of consulting experience.
- Provides guidance to students, lecturers, and researchers in both academic and private sectors.
- Since 2008, has been developing comprehensive workshops on the research process for participants of various skill levels.



WORKSHOP OUTLINE

