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Implement as a complete programme series throughout the academic year.

Design

Plan your methodology
Sampling techniques
Data collection instruments & methods
Ethics and compliance

Analysis

Statistical analysis
Qualitative coding
Software packages
R, SPSS, ATLAS.ti etc
Interpret your findings

Write-up

Communicate your results clearly
Academic writing
Data visualisation
Published articles

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Comprehensive journey from proposal to completion.

Session Lengths: 2-hour, half-day, full-day

Face-to-face, online & hybrid

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Request your personalised workshop: Email us for more details

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www.liminalrc.co.za

WORKSHOP INDEX

Quantitative Courses

QUANTITATIVE RESEARCH WORKSHOP SERIES

1. Design a bulletproof quantitative study using questionnaires: 1 day
2. Master essential statistical analysis for your research data: 1 day
3. Apply intermediate statistical techniques for research data with confidence: 1-2 days
4. Structural Equation Modelling and Confirmatory Factor Analysis for questionnaire based researchers: 1 day
5. Turn your research results into a professional, publication-ready write-up: 1 day

QUANTITATIVE RESEARCH STAND-ALONE WORKSHOP

6. Collect high-quality data that actually supports your hypotheses: 1 day
7. Clean, analyse & visualise your data like in excel: 1 day
8. Unlock big data for academic research: 2 days
9. Counting what matters: Quantitative methods for qualitative minds: 2 days
10. Supervise quantitative research projects with confidence: 1 day
11. Build a solid foundation in quantitative research: 1 day
12. Optimise your statistical analysis using AI: ½ day

ANALYSIS WITH A STATISTICAL PACKAGE

13. Master 'R' in 2½ hours - zero experience required: 2½ hours
14. Run essential statistical analysis confidently in 'R': 3 days
15. Take your 'R' skills to intermediate level: 1-2 days
16. Master SPSS in just 2½ hours - zero experience required: 2½ hours
17. Run essential statistical analysis confidently in SPSS: 3 days
18. Apply intermediate statistical analysis in SPSS with confidence: 1-2 days
19. Introduction to python for quantitative analysis: 2 days

Qualitative Courses

QUALITATIVE WORKSHOP

21. Design a strong, trustworthy qualitative study from day one: 1 day
22. Build interview guides that deliver rich, usable data: 1 day
23. Write a strong qualitative research proposal: 1 day
24. Design high-response open-ended qualitative questionnaires that work: 1 day
25. Master thematic analysis - turn interviews into clear, publishable themes: 1 day
26. Write up your qualitative study professionally & confidently: 1 day
27. Master systematic reviews for high-quality research: 1 day
28. Develop scoping reviews with confidence: 1 day

QUALITATIVE DATA ANALYSIS SOFTWARE (QDA'S)

29. Code, organise & report qualitative data professionally with ATLAS.ti: 2 days
30. Supercharge your analysis with AI in ATLAS. atlas.ti: 1 day
31. Code qualitative interviews fast & effectively in excel: 1 day

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MIXED METHOD WORKSHOPS

20. Integrate quantitative & qualitative data into a powerful mixed-methods study

QUANTITATIVE OUTLINE OF WORKSHOPS

1 DESIGN A ROBUST AND DEFENSIBLE QUANTITATIVE STUDY USING QUESTIONNAIRES

Phase: Desin

Get your research design approved first time and aligned with your data analysis plan.

WHAT YOU WILL LEARN

- The research process
- The research problem
- Research hypotheses
- Research approaches
- Research design
- Experimental design repeated measures

QUESTIONNAIRE ESSENTIALS

- Questionnaire validity and reliability
- Choosing a validated scale
- Online questionnaires and data format
- Sampling
- Statistical techniques for the questionnaire

1 day

2 MASTER ESSENTIAL STATISTICAL ANALYSIS FOR YOUR RESEARCH DATA

Phase: Analysis

Turn raw questionnaire data into clear, reliable statistical results you can trust.

- The statistical analysis process
- Data import
- Data labeling and creation of database
- Data cleaning and verification
- Descriptive statistics and graphs
- Instrument reliability and validity
- Exploratory data analysis
- Choosing the correct statistical test
- How to conduct a proper statistical analysis
- Exploratory Factor Analysis, Cronbach's Alpha Coeffciënt
- Paired T-test, Independent T-test
- ANOVA, Pearson Chi-square test
- Correlation and Regression Analysis

1 day

3 APPLY INTERMEDIATE STATISTICAL TECHNIQUES FOR RESEARCH DATA WITH CONFIDENCE

Phase: Analysis

Handle more complex analyses confidently and avoid common mistakes that delay your thesis.

BEYOND BASIC ANALYSIS

- Assumptions and remedies to violated assumptions
- Non-parametric statistical techniques
- Wilcoxon signed rank test
- Mann- Whitney U test
- Kruskall Wallis test

ADVANCED TECHNIQUES

- Multiple Linear Regression
- Regression with dummy variables
- Regression with control variables
- Two-way ANOVA and interactions
- Hierarchical regression
- Logistic Regression

1-2 days

QUANTITATIVE OUTLINE OF WORKSHOPS

4 STRUCTURAL EQUATION MODELLING AND CONFIRMATORY FACTOR ANALYSIS FOR QUESTIONNAIRE BASED RESEARCHERS

Phase: Analysis

Create professional structural models that strengthen your findings and impress examiners.

FOUNDATIONS OF CFA & SEM

- Understanding SEM and CFA concepts
- Measurement models and latent variables
- Model specification and path diagrams
- Assumptions and data requirements
- Preparing datasets for SEM analysis

MODEL TESTING & INTERPRETATION

- Mediation and moderation
- Confirmatory Factor Analysis (CFA) with lavaan output
- Structural Equation Models (SEM) with lavaan output
- Assessing model fit indices
- Reporting SEM and CFA findings professionally

1 day

5 TURN YOUR RESEARCH RESULTS INTO A PROFESSIONAL, PUBLICATION-READY WRITE-UP

Phase: Write-up

Write a clear, academic-quality results and discussion chapter.

- Structure of reporting
- Reporting of the research methodology
- Reporting of statistical techniques for comparing groups
- Reporting of statistical techniques for relating variables
- Using a template with APA write-up examples
- Write up of a Structural Equation Model (SEM), using a template provided
- Discussion of participants own writing up (if time permits)

1 day

6 COLLECT HIGH-QUALITY DATA THAT ACTUALLY SUPPORTS YOUR HYPOTHESES

Specialised

Design and execute data collection that is valid, reliable, and ready for analysis.

- Introduction to quantitative research
- Measurement or variable types
- Research questions and hypotheses
- Research design types
- Sampling
- Questionnaires(validity and reliability etc)
- Experiments
- Intended data analyses
- Aligning research hypotheses and analyses
- Data collection
- Paper based questionnaires
- Online questionnaires
- Data from experiments
- Secondary data
- Data capturing
- Data format for analysis
- Statistical packages

1 day

QUANTITATIVE OUTLINE OF WORKSHOPS

7 CLEAN, ANALYSE & VISUALISE YOUR DATA IN EXCEL

Specialised

Use Excel to clean, organise, and present your data with professional tables and graphs alongside your statistical analysis

EXCEL DATA MANAGEMENT

- Organising datasets effectively
- Cleaning and preparing data
- Using formulas and functions
- Filtering and conditional formatting

DESCRIPTIVE STATISTICS & VISUALISATION

- Descriptive statistical analysis
- Charts and graphs
- Pivot tables
- Identifying patterns and trends
- Exporting and presenting results

1 day

8 UNLOCK BIG DATA FOR ACADEMIC RESEARCH

Specialised

Use existing large datasets to uncover meaningful insights and produce publishable research

- What Big data is
- Big data vs traditional data
- Public vs primary Big data
- Finding Big data sources
- Evaluating data quality
- Preparing Big Data
- Data cleaning & structuring
- Data-mining methodology
- Big Data techniques

OUTCOMES

- Understand how Big Data can be used in research
- Distinguish between data sources
- Prepare and analyse large datasets
- Interpret and report findings responsibly
- Incorporate Big Data into future research
- Ethical and responsible use of Big data

2 days

9 COUNTING WHAT MATTERS: QUANTITATIVE METHODS FOR QUALITATIVE MINDS

Specialised

Expand your expertise by confidently applying quantitative methods in your research and supervision

- What quantitative research is
- Quantitative vs qualitative logic
- Types of data and variables
- Research design alignment
- Questionnaires and measurement
- Validity and reliability
- Sampling and sample size
- Understanding statistical results
- Choosing statistical techniques
- Interpreting key analyses
- APA-style reporting

2 days

QUANTITATIVE OUTLINE OF WORKSHOPS

10 SUPERVISE QUANTITATIVE RESEARCH PROJECTS WITH CONFIDENCE

Guide your students through the entire quantitative process from start to finish.

Specialised

RESEARCH DESIGN OVERSIGHT

- The research process
- The research problem
- Research hypotheses
- Research approaches
- Research design
- Experimental design
- Repeated measures

STATISTICAL GUIDANCE

- Questionnaire validity and reliability
- Choosing a validated scale
- Online questionnaires and data formatting
- Sampling
- Statistical packages
- Choose a statistical technique
- How to conduct a proper statistical analysis

1 day

11 BUILD A SOLID FOUNDATION IN QUANTITATIVE RESEARCH

Understand the fundamentals so you can make informed decisions throughout your quantitative study.

Specialised

- 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 day

12 OPTIMISE YOUR STATISTICAL ANALYSIS USING AI

Work smarter by using AI tools to speed up and improve your statistical analysis

Specialised

AI FOR RESEARCH & ANALYSIS

- Understanding the role of AI in research
- Using AI to support statistical decision-making
- Developing effective AI prompts for research
- Identifying appropriate statistical techniques
- Exploring AI-assisted interpretation

RESPONSIBLE AI APPLICATIONS

- Verifying AI-generated outputs
- Avoiding common AI-related errors
- Using AI ethically in academic research
- Strengthening data interpretation
- Improving efficiency in quantitative workflows

½ day

QUANTITATIVE OUTLINE OF WORKSHOPS

13

Phase: Analysis

MASTER R IN 2.5 HOURS - ZERO EXPERIENCE REQUIRED

Get up and running with R quickly so you can start analysing data immediately.

GETTING STARTED WITH R

- Understanding the R environment
- Importing Excel data
- Working with variables and datasets
- Labelling and organising data

BASIC ANALYSIS & VISUALISATION

- Choose variables and rows
- Calculate descriptive statistics
- Do a basic plot
- Saving and exporting output

2 ½ hours

14

Phase: Analysis

RUN ESSENTIAL STATISTICAL ANALYSIS CONFIDENTLY IN R

Perform all core statistical tests in R and interpret the output like an expert.

- What is R?
- The components needed
- R basics
- The R Studio environment
- Reading in Excel data with R
- Work with variables in R
- Labeling in R
- Descriptive statistics with R
- Plots with R

- Barchart & Clustered Barchart
- Histogram, Scatterplot, Boxplot
- Exploratory Factor Analysis
- Cronbach Alpha Coefficient
- Pearson Chi-square test
- Independent T-test, Paired T-test ANOVA
- Correlation
- Linear Regression

3 days

15

Phase: Analysis

TAKE YOUR R SKILLS TO INTERMEDIATE LEVEL

Move beyond basics to conduct more advanced statistical techniques in R

- Pitfalls in the analysis process
- Statistical analysis process followed in R
- How statistical techniques work and assumptions
- Remedies when assumptions cannot be met
- Decide on a statistical technique
- Non-parametric techniques:
- Wilcoxon Signed Rank test, Mann Whitney test U test and KrusKall-Wallis

ADVANCED MODELLING

- Two-Way ANOVA with interactions
- Multiple Linear Regression
- Regression with dummy variables
- Regression with control variables
- Hierarchical regression
- Logistic Regression

1-2 days

QUANTITATIVE OUTLINE OF WORKSHOPS

16 MASTER SPSS IN JUST 2.5 HOURS - ZERO EXPERIENCE REQUIRED

Phase: Analysis

Start using SPSS immediately - perfect for beginners with no prior software experience.

SPSS FOUNDATIONS

- Importing raw data
- Working with variables and datasets
- Selecting variables
- Saving and exporting output

DESCRIPTIVE ANALYSIS & VISUALS

- Descriptive statistics
- Basic plotting
- Graphical presentation
- Data organisation
- Preparing data for analysis

2 ½ hours

17 RUN ESSENTIAL STATISTICAL ANALYSIS CONFIDENTLY IN SPSS

Phase: Analysis

Execute and interpret standard statistical tests correctly using the 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

CORE STATISTICAL ANALYSIS

- Exploratory Factor Analysis
- Cronbach Alpha Coefficient
- Independent T-test, Paired T- test,
- ANOVA
- Pearson Chi-square test,
- Correlation
- Linear regression

3 days

18 APPLY INTERMEDIATE STATISTICAL ANALYSIS IN SPSS WITH CONFIDENCE

Phase: Analysis

Master more powerful analyses and feel completely in control of your data using 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:
- Wilcoxon Signed Rank test, Whitney test U Test and Kruskall-Wallis test
- TWO-WAY ANOVA with interactions
- Multiple Linear Regression with dummy variables
- Multiple Linear Regression with control variables
- Hierarchical Regression
- Logistic Regression

1-2 days

QUANTITATIVE OUTLINE OF WORKSHOPS

19

INTRODUCTION TO PYTHON FOR QUANTITATIVE ANALYSIS

Use Python to efficiently clean, manage, and analyse your research data

Phase: Analysis

PYTHON FOUNDATIONS FOR RESEARCH

- Python in quantitative research
- Data format for analysis
- The Python environment
- Installing Python & Jupyter
- Python basics for data analysis

DATA ANALYSIS & VISUALISATION

- Working with pandas DataFrames
- Data cleaning & transformation
- Descriptive statistics & tables
- Graphs & data visualisation
- Introduction to statistical analysis i Python

2 days

MIXED-METHOD WORKSHOPS

20

INTEGRATE QUANTITATIVE & QUALITATIVE DATA INTO A POWERFUL MIXED-METHODS STUDY

Combine both approaches into one cohesive, high-impact research project.

Design & Analysis

MIXED METHODS FOUNDATIONS

- Overview of qualitative and quantitative design
- Understanding mixed methods approaches
- Choosing a mixed methods strategy
- Aligning research questions and methods

ANALYSIS & INTEGRATION

- Integrating qualitative and quantitative findings
- Joint displays
- Mixed methods interpretation
- Practical analysis examples
- Writing up mixed methods findings

WORKSHOP DELIVERY STRUCTURE

DAY 1
Quantitative Research Design & Analysis
Presented by Hennie Gerber

DAY 2
Qualitative Research Design & Analysis
Presented by Monique van der Walt

DAY 3
Integrated Mixed Methods Application
Presented jointly by both workshop instructors

3 days

QUALITATIVE OUTLINE OF WORKSHOPS

21

Phase: Design

DESIGN A STRONG, TRUSTWORTHY QUALITATIVE STUDY FROM DAY ONE

Build a solid qualitative design that meets academic standards and ethical requirements.

QUALITATIVE RESEARCH FOUNDATIONS

- Qualitative research design
- The qualitative research process
- Developing research questions
- Selecting appropriate qualitative designs
- Data collection strategies
- Ensuring trustworthiness
- Reflexivity considerations
- Introduction to thematic analysis

1 full day

22

Phase: Design

BUILD INTERVIEW GUIDES THAT DELIVER RICH, USABLE DATA

Create interviews that produce deep, high-quality responses you can actually analyse.

INTERVIEW DESIGN PRINCIPLES

- Developing interview frameworks
- Structuring interview flow
- Designing meaningful questions
- Aligning objectives and questions
- Interview Protocol Refinement Framework
- Enhancing participant engagement
- Ensuring trustworthiness

1 full day

23

Phase: Design

WRITE A STRONG QUALITATIVE RESEARCH PROPOSAL

Craft a clear, compelling proposal that gets approved quickly by your supervisor.

BUILDING YOUR PROPOSAL

- Inquiring the probelm
- Research problems and rationale
- ·Literature review alignment
- ·Developing aims and objectives
- ·Constructing research questions
- Qualitative methodologies
- Data collection procedures
- Sampling planning
- Thematic analysis
- Trust and ethical considerations

1 full day

QUALITATIVE OUTLINE OF WORKSHOPS

24

Phase: Design

DESIGN HIGH-RESPONSE OPEN-ENDED QUALITATIVE QUESTIONNAIRES THAT WORK

Develop open-ended questionnaires that generate meaningful qualitative data.

OPEN-ENDED QUESTIONAIRES

- Types of qualitative questionnaires
- Open-ended and semi-structured formats
- Crafting meaningful questions
- Structuring questionnaires effectively
- Trustworthiness and reflexivity
- Thematic analysis strategies
- Reporting qualitative questionnaire findings
- Addressing data quality concerns

1 full day

25

Phase: Analysis

MASTER THEMATIC ANALYSIS - TURN INTERVIEWS INTO CLEAR, PUBLISHABLE THEMES

Extract powerful themes from your data and present them professionally.

CODING FOUNDATIONS

- Principles of thematic coding
- Inductive and deductive coding
- Organising and managing data
- Identifying themes
- Structuring thematic findings
- Interpreting qualitative data
- Building coherent narratives

1 full day

26

Phase: Write-up

WRITE UP YOUR QUALITATIVE STUDY PROFESSIONALLY & CONFIDENTLY

Produce a high-quality qualitative results chapter that flows naturally and reads well.

DEVELOPING AND PRESENTING A QUALITATIVE STUDY

- Writing backgrounds and rationale
- Developing aims and research questions
- Synthesising literature
- Presenting methodological decisions
- Presenting themes effectively
- Integrating literature and findings
- Discussing implications
- Writing recommendations
- Addressing limitations

1 full day

QUALITATIVE OUTLINE OF WORKSHOPS

27 MASTER SYSTEMATIC REVIEWS FOR HIGH-QUALITY RESEARCH

Develop rigorous, transparent, and publication-ready systematic reviews with confidence.

Phase: Analysis

REVIEW DESIGN & SEARCH STRATEGIES

- Understanding systematic review methodology
- Developing focused review questions
- Building advanced search strategies
- Defining inclusion and exclusion criteria
- PRISMA framework and screening processes
- Extracting and organising literature data
- Synthesising evidence systematically
- Identifying patterns, gaps, and trends
- Reporting systematic review findings
- Writing publication-ready review chapters

1 full day

28 DEVELOP SCOPING REVIEWS WITH CONFIDENCE

Map existing evidence, identify research gaps, and structure impactful scoping reviews.

Phase: Analysis

SCOPING REVIEW FOUNDATIONS

- Understanding scoping review methodology
- Developing review objectives and questions
- Designing search and screening strategies
- Mapping concepts and evidence sources
- Organising and charting extracted data
- PRISMA framework and screening processes
- Summarising large bodies of literature
- Identifying trends and knowledge gaps
- Presenting scoping review findings clearly
- Developing evidence maps and summaries

1 full day

29 CODE, ORGANISE & REPORT QUALITATIVE DATA PROFESSIONALLY WITH ATLAS.TI

Use ATLAS.ti to manage, code, and visualise your data like a seasoned researcher.

Phase: Analysis

PROFESSIONAL TRAINER · ATLAS.ti · JUNIOR

CODING & DATA MANAGEMENT

- Creating coding systems
- Applying and organising codes
- Managing qualitative datasets
- Cycles of qualitative coding

ANALYSIS & REPORTING

- Building thematic structures
- Visualising qualitative data
- Reporting qualitative findings
- Using AI effectively

1 full day

QUALITATIVE OUTLINE OF WORKSHOPS

30 SUPERCHARGE YOUR ANALYSIS WITH AI IN ATLAS.TI

Phase: Analysis

Leverage AI to code faster, summarise large datasets, and uncover deeper insights.

PROFESSIONAL TRAINER · ATLAS.ti · JUNIOR

AI-ASSISTED QUALITATIVE ANALYSIS

- Guiding AI for intentional coding
- AI-supported summarisation
- Exploring datasets with AI
- Conversational AI commands

AI-ASSISTED QUALITATIVE ANALYSIS

- Reflecting with AI support
- Exploring themes rapidly
- ·Interacting with qualitative data using natural language prompts

1 full day

31 CODE QUALITATIVE INTERVIEWS FAST & EFFECTIVELY IN EXCEL

Phase: Analysis

Code and analyse interviews efficiently without buying specialist software.

SETTING UP YOUR CODING SYSTEM

- Organising qualitative datasets
- Creating coding frameworks
- Setting up coding systems in Excel
- Managing interview transcripts

ANALYSING QUALITATIVE DATA

- Applying and sorting codes
- Identifying themes and patterns
- Filtering meaningful insights
- Managing coded data effectively
- Reporting findings from Excel

1 full day

Keep an eye!

We regularly create new workshops

Stay connected and check back often for new opportunities to grow your research skills.

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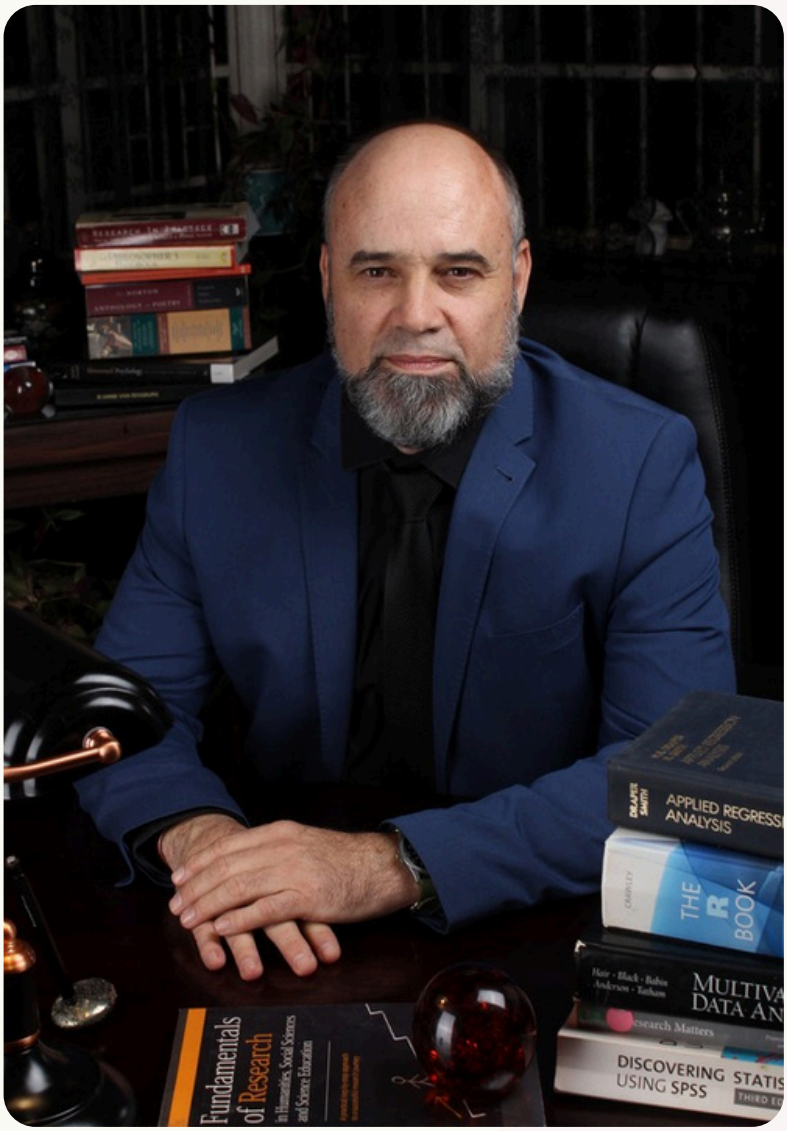
ABOUT THE FACILITATORS

QUANTITATIVE APPR0ACH:

HENNIE GERBER

Statistician



QUALIFICATION
MCom in Statistics

EXPERIENCE
29 years

Hennie Gerber is a statistician with 29 years of combined consulting and lecturing experience across academic and private sectors including large-scale national projects such as systemic school evaluation and monitoring for the Department of Basic Education (DBE) in South Africa, and consulting work with SASOL.

Since 2008, he has specialised in developing and presenting comprehensive workshops on the full research process - including research design, sampling, data analysis (R and SPSS), statistical modelling, and interpretation - at various universities such as UNISA, UP, UFS, UCT, VUT, CUT & STADIO

He draws on his extensive hands-on experience since 2000 supporting students, PhD candidates, and lecturers with dissertations, theses, and academic articles to deliver practical, applied training that bridges academic rigour with real-world decision-making

AREAS OF EXPERTISE

- Quantitative research methodology
- Questionnaire development
- Statistical analysis & modeling
- Data interpretation
- R SAS SPSS
- Instructor / facilitator

OUR MISSION | **Empowering researchers with practical skills to design, analyse and interpret data with confidence.**

ABOUT THE FACILITATORS

QUALITATIVE APPR0ACH:

Monique van der Walt

Qualitative Research Specialist | Research Psychologist | Professional ATLAS.ti Trainer

QUALIFICATION
MA in Research Psychology

EXPERIENCE
7 years

Monique van der Walt is a qualitative research specialist with experience in higher education, academic consulting, and postgraduate research support across both academic and private sectors. She has facilitated workshops and consultations at universities and institutions across South Africa, focusing on qualitative research design, thematic analysis, qualitative coding, proposal development, and qualitative report writing.

She specialises in qualitative data analysis using ATLAS.ti Her experience includes practical training in qualitative methodologies, interview framework development, AI-assisted qualitative analysis, and trustworthiness in qualitative research.

Monique delivers practical workshop training that combines methodological rigour with applied research experience, helping researchers confidently navigate qualitative research design, analysis, and reporting.

AREAS OF EXPERTISE

- Qualitative research design
- Interview framework alignement
- Qualitative coding & analysis
- Thematic interpretation
- ATLAS.ti v26
- Instructor / facilitator

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