



For ASSESS York 2019 meeting

AN INTRODUCTION TO DEALING WITH MISSING DATA IN RESEARCH STUDIES 2

AN INTRODUCTION TO MULTILEVEL MODELLING USING SPSS 3

FIRST STEPS IN SPSS SYNTAX IN IBM SPSS 4

AN INTRODUCTION TO DEALING WITH MISSING DATA IN RESEARCH STUDIES

(9-30am to (approx) 11-30am, 2-10pm to 4-30pm includes coffee breaks and buffet lunch)

Member of the Centre for Applied Statistics

University College London

Target audience:

The course is suitable for academics or established professionals for continuing professional development in understanding the invalid and misleading conclusions that can be drawn by ignoring missing data and methods of handling them. It is also suitable for PhD students who will be or are using quantitative methods in their research. You should have some prior knowledge of performing statistical analyses in SPSS.

The course leader comes from the Centre of Applied Statistics Courses within UCL. The Centre is responsible for teaching a number of short courses (including Dealing with Missing Data and Introduction to SPSS) to non-statisticians from a wide range of backgrounds and tutors have presented at various statistical conferences and training events around the UK and internationally.

Aim

This workshop introduces the problems that missing data presents in research and the implications they can have on the validity of results. Different methods of dealing with missing data are introduced and their performance under different assumptions is assessed.

Learning Outcomes

By the end of this workshop, you will be able to:

- Understand the different types of missing data
- Understand the advantages and disadvantages of various missing data methods
- Understand the underlying theory of multiple imputation
- Apply multiple imputation to an incomplete dataset using SPSS

AN INTRODUCTION TO MULTILEVEL MODELLING IN IBM SPSS

(9-30am to (approx) 11-30am); Coffee at 11-30am

Laszlo Horvath & Raluca Popp

University of Exeter

Target audience:

This course assumes no previous experience using multilevel models and is a practical introduction to the use of a rapidly expanding area of statistics in many fields including social, medical and ecological studies. Knowledge of using regression models is an advantage. A knowledge of using SPSS syntax would also be helpful.

Laszlo and Raluca are associate lecturers in quantitative politics members at the University of Exeter and teach statistics courses as part of the Q-Step data analysis workshop series.

Aim

Multilevel data structures arise in longitudinal studies where an individual's responses over time are correlated with each other and, have an advantage over repeated measures ANOVA, in incorporating data from incomplete cases. This session will present our own research using gaze data from an eye-tracking experiment and give guidance as to how to analyse such data in IBM SPSS, understand the output and present results.

Learning Outcomes

- Getting started with multilevel procedures in IBM SPSS and data
- Exploring and summarising multilevel data and key elements of statistical modelling
- Two-level random intercepts models and examples
- Models for random intercepts and slopes

FIRST STEPS IN SPSS SYNTAX IN IBM SPSS

(2-10pm to (approx.) 4-30pm including a coffee break)

Helen Gray

University of Durham

Target Audience

This workshop is suitable for SPSS users who are familiar with the menu toolbar but have no knowledge of using the SPSS command language, SPSS syntax.

Pre-requisites

SPSS users who are familiar with the menu toolbar.

Aim

This course aims to introduce the command language in SPSS to make the most of the features available in SPSS. SPSS syntax allows you to produce an audit trail of what you have done, allows commands to be stored and run as often as needed to efficiently run interactively various commonly needed operations involving data management, production of summary measures in tables and as extra variables in the data file. SPSS syntax is flexible as edits to syntax can be easily performed and saved for future use. Syntax also contains extra features both in terms of old routines no longer used and extra subcommands to some procedures.

This half-day course is aimed at complete beginners to SPSS syntax. It introduces basic concepts and structures and uses these to read in and prepare data ready for analysis and perform data manipulations using core commands.

Learning Outcomes

By the end of the course, you will be able to use:

- Basic Syntax structure
- Acquiring good programming habits
- Keeping a log
- The SPSS Journal File
- Running Commands
- Keywords