

GENERAL DESCRIPTION

Up and Running in Stata provides participants with the necessary introductory toolset to enable them to carry out efficient data analysis and data management in Stata in a reproducible manner. The course covers everything from the very basics, in order to get one up and running in Stata, to an overview of the available Stata commands for preliminary data analysis, data management, importing and exporting data formats, merging of databases and the creation of graphs in Stata.

In common with TStat's training philosophy, Up and Running in Stata is by its very nature to be considered very much a Hands On approach to learning Stata course. Each individual session is composed of both a theoretical component and an applied segment, during which participants have the opportunity to implement the techniques illustrated under the watchful eye of the course tutor.

TARGET AUDIENCE

This course is invaluable to both professionals and researchers (working in Epidemiology, Business Studies, Marketing and Management, Biostatistics, Economics, Epidemiology, Medicine, Public Health, Social and Political Sciences and Statistics), wishing to use Stata for applied statistical analysis, data management or data visualization.

PREREQUISITES

Familiarity with PCs and a working knowledge of English.

PROGRAM

SESSION I: GETTING STARTED

1. Stata's GUI
2. Stata File formats
3. Interacting with your Operating System from within Stata
4. Working interactively in Stata
 - *Organizing one's work in Stata*
 - *Help*
 - Web resources
 - Updates
 - Downloading user written commands in Stata
5. Interrupting Stata Sessions
6. Loading Stata databases
7. Saving databases in Stata
8. Saving output: the log file
9. Exiting the software

SESSION II: STATA FUNDAMENTALS

1. Visualizing the data
2. Stata's Syntax
3. Abbreviations in Stata
4. Constrained commands
5. Data Types
6. *Format* command
7. Labels
8. *Value Labels*
9. Summarizing the data:
 - Summary Statistics
 - Statistical Tables
10. The *by* prefix
11. Selecting / eliminating variables - *drop*, *keep*
12. The commands *count* and *sort*
13. Renaming variables - *rename*
14. *display*
15. *assert*
16. Missing Values
17. Create, eliminate, transform data
 - *generate*, *egen*, *replace*, *recode*

SESSION III: CREATING SIMPLE STATA ROUTINES: DO FILES

SESSION IV: IMPORTING DATA FROM SPREADSHEETS

1. Importing an Excel file using drop down menus
2. Importing an Excel directly in Stata: *import excel*
3. Importing a text file created from a *spreadsheet*: *insheet*
4. Importing a text file: *import delimited*
5. Importing SPSS databases
6. Verifying the Data
7. Likely Issues:

- Missing values
 - Strings: *encode*, *decode*, *destring*, *tostring*
 - Handling dates
8. Exporting data to ASCII/txt files to be read in spreadsheets: *outsheet*

SESSION V: MERGING DATA BASES

1. The concepts *master* and *using* databases
2. *append* command
3. Merging data
 - *merge* command
 - Merging one to one by observations
 - Merging one to one using one or more unique identifying variables
 - How do we make sure the identifying variables are unique
 - The system variables *_merge*
4. *updates* command
5. Use the *append* and *merge* commands
6. The concepts of *wide* and *long* data format

SESSION VI: GRAPHICS – AN INTRODUCTION

1. Stata graphics
2. *Graph* command syntax
3. Reading, saving and exporting graphs
4. Useful commands
5. Overview of various graph types
6. Personalizing a graph
7. The Graph Editor
8. Combining and overlaying graphs

COURSE REFERENCES

- A Gentle Introduction to Stata, 6th Ed. StataPress 2018, (Alan Acock)
- Data Analysis Using Stata, 3rd Ed., StataPress 2012, (Ulrich Kohler, Frauke Kreuter)
- Data Management Using Stata: A Practical Handbook, 2nd Ed. StataPress 2020, (Michael N. Mitchell)

DATE AND LOCATION

Due to the ongoing COVID-19 situation, the 2021 edition of this Training Course will be offered **ONLINE**, on a part-time basis on the 15th-16th and 22nd-23rd November 2021. To this end, this year's programme has been transformed into a series of modules based on 4 sessions from 10.00 am to 1.30 pm Central European Time (CET).

REGISTRATION FEES

Full-Time Students*: € 710.00
Full time PhD Students: € 910.00
Academic: € 1010.00
Commercial: € 1175.00

*To be eligible for student prices, participants must provide proof of their **full-time** student status for the current academic year. Our standard policy is to provide all full-time students, be they Undergraduates, Masters or Doctoral students, access to student participation rates. Part-time master and doctoral students who are also currently employed will however, be allocated academic status.

Fees are subject to VAT (applied at the current Italian rate of 22%). Under current EU fiscal regulations, VAT will not however applied to companies, Institutions or Universities providing a valid tax registration number.

The number of participants is limited to 8. Places, will be allocated on a first come, first serve basis. The course will be officially confirmed, when at least 5 individuals are enrolled.

Course fees cover: i) teaching materials (copies of lecture slides, databases and Stata programs specifically developed for the course; ii) a temporary licence of Stata valid for 30 days from the day before the course commences.

Individuals interested in attending the training course, must return their completed registration forms to TStat by the 5th November 2021.

Further details regarding our registration procedures, including our commercial terms and conditions, can be found at <https://www.tstattraining.eu/training/up-and-running-stata-ol/>.

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