



TRAINING COURSE | ONLINE

## MAXIMISING THE POTENTIAL OF STATA'S NEW PYTHON CAPABILITIES

2 Modules of 3.5 hours

TStat's "Maximising the Potential of Stata's New Python Capabilities" course offers participants an excellent opportunity to acquire the introductory programming skills required to integrate Python's capability into Stata 17. The course opens with an introductory session focusing on the Python programming basics required by users wishing to exploit the Stata – Python connectivity, before moving on to illustrate how to use Python in a Stata environment and the vice versa. In the closing session a series of practical applications will be discussed in order to highlight WHEN and HOW one should exploit the connectivity between Python and Stata for one's research.

At the end of the course, participants are expected to be able, with the aid of the Stata routines implemented during the sessions, to independently implement the methodologies and techniques illustrated during the course by adopting the Stata routines to their own particular research needs.

In common with TStat's training philosophy, each session is composed of both a theoretical component (in which the techniques and underlying principles behind them are explained) and an applied (hands-on) segment, during which participants have the opportunity to implement the techniques using real data under the watchful eye of the course tutor. Throughout the course, theoretical sessions are reinforced using applied case studies, in which the course tutor discusses and highlights potential pitfalls and the advantages of individual techniques.

### COURSE CODE

D-IN25-OL

### DATE AND LOCATION

Due to the ongoing Public Health situation, the 2022 edition of this training course will be offered **ONLINE** on a part-time basis during the second semestre from 10:00 am to 1:30 pm Central European Summer Time (CEST).

### TARGET AUDIENCE

This course is of particular interest to sociologists, mathematicians, economists, ethnologists, epidemiologists and political scientists wishing to acquire the basic tools necessary to use Python routines within Stata.

### PREREQUISITES

Participants should having a working knowledge of Stata. No prior knowledge of Python is necessary, although it will be an advantage.

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## PROGRAM

1. The potential of Stata/Python connectivity: an overview
2. Python programming basics
3. Alternative ways to implement Python in Stata: the PyStata Module
  - Calling Python from within Stata
  - Calling Stata from within Python
4. Mata/Python integration
5. Practical examples
  - Stata integration of Python Scikit-learn for Machine Learning
  - Least squares regression in Mata/Python
  - Stata/Python data visualization

## REGISTRATION FEES

Full-Time Students\*: € 355.00

Ph.D. Students: € 455.00

Academic: € 535.00

Commercial: € 630.00

\*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 or Masters 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: teaching materials (handouts, Stata do-files, program templates and datasets to use during the course), a temporary course licence of Stata valid for 30 days from the beginning of the course.

Individuals interested in attending the training course should contact TStat Training to ask for a registration form.

Further details regarding our registration procedures, including our commercial terms and conditions, can be found at [https://www.tstattraining.eu/training/maximising\\_potential\\_stata\\_python-ol/](https://www.tstattraining.eu/training/maximising_potential_stata_python-ol/).

## CONTACTS

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