Stata crash course

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Place: LIAM
Date: February 7, 9, 14 and 16, 2022
Hours: 11:00-13:00

This course is conceived as an introduction to the statistical software STATA. The course assumes no previous knowledge on the programme or in other statistical packages. While it is not strictly necessary previous knowledge on statistics, the course will deal with statistical issues and therefore some understanding is appreciated. In the course we will only minimally cover basic statistical issues.

This introductory course will last for 4 days, 2 hours each. During the first hour we will deal with theoretical aspects; then, after a short break, students will have the chance to practice the different concepts introduced during the first hour with real case-studies. While students with no knowledge at all on STATA are encouraged to attend the course from the very first day, those with some previous knowledge on the software may choose to come in subsequent days, depending on their learning preferences.

Finally, the schedule below will be adapted depending on how the course evolves and the different needs of the students. All materials not covered in this introductory session will be taught in the intermediate sessions that will take place during March 2022.

Schedule

1st Day: Introduction (7th February)

1. The Stata interface
2. Document types (.dta, .do, .gph)
3. How to use the do-file
4. Types of variables
5. Import data (csv, excel, SPSS…)
6. Conversion of variables

2nd Day: Descriptive statistics (9th February)

1. Descriptives and frequencies
2. Install external packages
3. Variable recodification
4. Label variables and values
5. Histograms and graph edition

3rd Day: Bivariate statistics (14th February)

1. Contingency tables
2. Correlations
3. Scatterplots
4. T-Tests
5. Filters and sample splitting

4th Day: Inferential statistics (16th February)

1. Linear regression
2. Regression tables (estout) and edition
3. Graphs and predicted values