Allievi Program, Master in Economics, and PhD in Economics
STATA
Fall 2024
Instructor: Flavia Coda Moscarola

Contact Information
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Office Hours: Please, send me an email, and we can set up an appointment either before or after each class.

Introduction
This short-course introduces to the use of STATA. STATA is a statistical package for the analysis of big data sets. The course illustrates the basic commands and tools to upload, organize and modify data and run simple statistical and econometric analyses.

Topics of the course:

1. Introduction: How to upload, transform and save datasets
- Do files, Log files
- Load data
- Save data
- Merge data sets
- Append data sets
- Reshape data from wide to long and vice-versa
- Collapse data sets
- Generate new variables and label them
- Macros and Loops
2. How to run descriptive statistics and create graphics

- Summarize data, generate tables, store results
- Draw histograms, maps and other common two-way graphs

3. The estimation of a linear regression model
- Run linear regressions and interpret regression outputs
- Predict values
- Storage of results and printable output
- Tests

4. Basic use of matrices and basic programming in STATA

Prerequisites
This is an introductory 10-hours course, no prior knowledge of Stata is required. Basic knowledge of computer programming and basic knowledge of econometrics can help, but they are not strictly needed.

Requirements and Grading
Students are required to install STATA on their laptops. Free licenses are available from Collegio Carlo Alberto upon request (please direct your requests to the IT office). The classes are designed to be interactive, with students expected to replicate the commands introduced step by step by the instructor during each session. The course grade will be based on attendance, participation, and performance on the final assignment. Students are encouraged to work in groups and collaborate. The final assignment will require them to apply the techniques learned to conduct a basic research analysis.

Textbooks
Notes and references will be provided by the Instructor.