Advanced Quantitative Research Methods
This course will provide students with an overview of the different disciplinary traditions and theoretical underpinnings of quantitative research. It will train students in a range of core methods relevant to the social sciences subdisciplines, including an appraisal of their respective strengths and weaknesses, with a focus on the challenges of data analysis. Students would be able to grasp the relevant knowledge and theory, and develop research skills as detailed below:

- **Knowledge and Theory.** Capability to: understand the assumptions behind statistical techniques; select and apply appropriate statistical techniques for testing hypotheses; confront with a range of statistical techniques and choose and implement appropriate statistical techniques for research; interpret statistical outputs and think through the meaning and implications of statistical findings.

- **Research Skills.** Capability to: carry out statistical analyses; use STATA to record and program statistical analysis; manage and analyze large cross-sectional survey datasets; generate, interpret and present statistics and charts to describe the distributional characteristics of variables; explore the relationships between two or more variables; write up statistical findings appropriately.

The course will include 10 contact hours taught by the course convenors Dr. Masood Gheasi and Dr. Daniele Mantegazzi. The course is optional.