Regression, the most widely used statistical technique, estimates relationships between independent (predictor or explanatory) variables and dependent (response or outcome) variables. This course introduces the use of elaboration models for unveiling the nature of the relationship between two associated variables. The course will combine lectures, discussion and hands-on practice. Participants will use the statistical software package STATA.

Course Outline

- Foundations and simple linear regression (e.g. correlation and covariance)
- Multiple linear regression (e.g. Ordinary Least Squares regression)
- Transform data dependent variables that are not normally distributed
- The idea of ‘control’ variables
- Elaboration models – introduction to spurious association, intervening variable, partial explanation, suppression effect, interaction effect and their links to sociological ideas

Who Should Attend

This course is designed for professionals, undergraduates and postgraduate students, data analysts and quantitative researchers working in applied environments.

Prerequisites

Participants should have some prior experience with using statistical software packages such as STATA, SAS or SPSS.

Enquiries

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