Stata for Research & Public Policy

This is a 3-day comprehensive Stata programme in Singapore. It is conducted in the English language. All modules are suitable for beginners and those who wish to take a refresher course on Stata. As this is a "hands-on" workshop, attendees are required to bring their own laptops with Stata installed in them.

Course Description

Participants will learn STATA tools used for data management, research design, regression methodology and IV, IV-GMM modeling techniques.

The workshop also covers programming with STATA. The topics and tools covered in the workshop are general, useful to anyone who is interested in carrying out empirical work in the social sciences and biomedical research that requires statistical analysis of real data.

Statistical methods and theories will be explained for each topic, but the emphasis is on learning the practical aspects of the tools provided by STATA as well as the interpretation and analysis of estimation results. During the six practice sessions, participants will have hands-on opportunities to analyze real data sets.

DAY 1 : Overview of Stata

➢ User interface, help system, file management, working with do-file editor

➢ Updating program and accessing user-written routines

➢ Data management: basic principles of organization and transformation

➢ Data management tools and data validation

➢ Introduction to graphics

➢ Producing publication-quality output

DAY 2 : Research design

➢ Data size considerations

➢ Selecting appropriate model and test

➢ Sample size and power analysis

➢ Distribution tests and transformations

➢ Exact statistics

➢ Computation of precision / standard errors

➢ Basics of ANOVA

DAY 3 : Regression and generalized method of moments (GMM) estimation

➢ Basics of regression methodology

➢ Regression with indicators (ANOCOVA)

➢ Instrumental variables (IV) models

➢ IV-GMM modeling and diagnostics

➢ Nonlinear least squares models