STATA 1: DESCRIPTIVE ANALYSIS

Stata is a powerful, yet easy to use statistical package. This hands-on tutorial is designed as an introduction for beginning users who are just getting started using Stata. The emphasis in this tutorial is on exploring the data, cleaning the data for research purposes, using graphs, employing descriptive statistics and running simple regressions.

The following topics will be covered:

- Getting started: open data files, use variable manager.
- Explore the data: check variables, use labels and filters, describe data.
- Modify the data: create new variables, recode data, examine and impute missing values.
- Produce output: log-files, labelbook, codebook, graphs, simple regressions.

STATA 2: REGRESSION ANALYSIS

This hands-on tutorial is designed for beginning users who is familiar with the basics of Stata. The emphasis in this tutorial is made on linear regressions and binary data analysis. Basic programming concepts are introduced.

The following topics will be covered:

- Linear regression: OLS, significance tests, postestimation analysis.
- Categorical variables: factor variables, interactions and interpretation.
- Categorical outcomes: logit and probit models, multinomial and ordered logit, interpretation.
- Programming skills: creating and using do-files, basic ideas.

STATA 3: SURVIVAL ANALYSIS

This hands-on tutorial is designed as an introduction to survival analysis for beginning users who are familiar with the basics of Stata. The emphasis in this tutorial is made on correct data declaration, regression analysis and graphical representation.

The following topics will be covered:

- Data declaration: single-record-per-subject survival data, multiple-record-per-subject survival data, time concept, snapshot data versus time-span data.
- Regression analysis: Cox proportional hazards model, parametric survival models, competing-risks regression.
- Graphical representation: survivor and cumulative hazard functions.
STATA 4: PANEL DATA ANALYSIS

This hands-on tutorial is designed as an introduction to panel analysis for beginning users who are familiar with the basics of Stata. The emphasis in this tutorial is made on correct data declaration and panel data regression analysis.

The following topics will be covered:

- Data declaration: reshaping data, correct declaration, data description.
- Regression analysis: fixed-effect, random-effect models.
- Binary outcomes: fixed-effect, random-effect models.

STATA 5: TIME-SERIES, SURVEY DATA, MISSING VALUES: BASICS

This hands-on tutorial is designed as an introduction to survival analysis for beginning users who are familiar with the basics of Stata. The emphasis in this tutorial is made on correct data declaration, useful techniques and shortcuts and the concept of multiple imputations.

The following topics will be covered:

- Time-series data: data declaration, lag-operators.
- Survey data: data declaration, proper use of weights.
- Missing values: describing and recoding missing values, multiple imputations.