INTRODUCTION TO STATA

March 16 and 17, 2011, from 9:30am to 4:30pm

Location
QICSS office, 3535 Queen-Mary road, room 420, Montreal.

Course objectives and content

The objective of this workshop is to provide the participant with a working knowledge of Stata and its basic commands. At the end of this practical workshop, the participants will be able to use programming to manipulate files, to transform data and to accomplish basic statistical analysis. The training will take place entirely in the computer laboratory at Quebec Interuniversity Centre for Social Statistics. The participants will have to accomplish exercises using public micro data of census 2001 and the general social survey micro data of Statistics Canada.

Trainers

- Élise F. Comoé, Statistics Canada Analyst
- María Constanza Street, PhD candidate, Centre - Urbanisation Culture Société, Institut national de la recherche scientifique

Plan

First day: Morning

- The Stata environment:
  - Windows and file types
  - The « do file » and the « do-file editor »
  - The « log file »
- Working with Stata
  - Interactive and batch modes
- Beginning a session
  - Basic syntax of commands
  - Reading and saving a data file : open, save
  - Dealing with memory, log and do-files: set memory, clear, set more, do, log using, log close

- Data description
  - browse, edit, describe, list, codebook, count, inspect

First day: Afternoon

- Variable types and formats

- Names and labels: label define, label values, label variable, label copy, label list, label drop, rename, renpfix

- Descriptive statistics: tabulate, summarize, tabstat, table

Second day: Morning

- Data management I
  - Conditional transformations « if »
  - Creating and transforming variables : generate, replace, recode, egen
  - Coding missing values : mvencode
  - Transforming variable types : destring-tostring, encode-decode

Second day: Afternoon

- Data management II
  - Selecting records and variables : drop, keep
  - Sorting records and variables : order, aorder, sort, gsort
  - Concatenating and merging data files: merge, append, joinby
  - Reshaping data files : reshape long, reshape wide

- Data analysis: Basic commands to run correlations and regressions