Introduction to Stata: Data Management, Data Analysis, and Programming

Stata course with Kim Mannemar Sønderskov

November 9-11, University of Southern Denmark, Odense.

Prerequisites
Each participant must have access to a computer with Stata (preferably version 12) installed and working.
There is no reading list for the course, but Danish speaking participants could leaf through Sønderskov, KM (2011), Stata – en praktisk introduction, København: Hans Reitzel. Others could look at Ch. 1-7 in Kohler, U & F Kreuter (2009): Data Analysis Using Stata. College Station: Stata Press.

Program

Module 1: Introduction to Stata’s basic elements

- Intro: Practical information, course objectives, and didactic choices
- Working Stata: the main interface and do-file editor
- Inspecting data/searching data
- Commands: general syntax
- Opening and saving data
- Getting help
- Basic graphics
- Setting Stata settings

Module 2: Basic data management

- Adding variable and value labels
- Adding notes
- Inputting data by hand
- Deleting variables and observations
- Merging data
- Reordering data
- Recoding data
- Appending data
- Aggregating data
- Reshaping data
- Abbreviations: Commands, options, and variables
- Data types
- Operators

Wednesday 11-13

Wednesday 14-17
Module 3: Basic data analysis  Thursday 9-11
- Some examples of data analysis
- Scale construction
- Graphing and exporting results
- Logging

Module 4: Programming (advanced management and analysis)  Thursday 11-17
- Loops
- Local and global macros, scalars
- [lunch break]
- Extended macro functions
- Using saved results
- Ado-files and programs
- Matrices and Mata
- Importing/exporting data

Module 5: Working with the tax benefit model  Friday 9-14
- A walkthrough of the do-files
- Changing settings
- [lunch break?]
- Specific questions