Basic STATA Literacy Course

*Stata for Data Processing and Data Management*

Purpose

To be able to perform proper data management using stata

After the course, participants will able to

1. Understand the basic concept of how stata work
2. Perform exporting or importing data from/to different dataset format
3. Perform dataset manipulation and reshaping dataset
4. Perform essential data quality check using stata
5. Perform basic looping function and automatic exporting of outputs tables

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| Day No. | Main Theme | Sub-topics | Remark |
| 1 | Stata Installation and home rules | Stata installation – Stata 14  Explain home rules   * Be on time * Meet the deadline for each assigned task * Share dropbox folder (assignment, answer and output |  |
| 1 | Introduction to STATA | What is STATA and Why?  What STATA look like  Data in Stata  Getting Help | Ref: Lembcke\_LSE\_Introduction to Stata |
| 1 | Pre-test exercise check |  |  |
| 2 | Dataset Management using Stata | Directories and Folder  Reading data (from different type of database)  Variable and data type |  |
| 3 | Dataset Management using Stata | Examining the data  Saving the dataset  Keeping track of things |  |
| 4 | Database Manipulation | Organizing dataset  Creating new variables  Cleaning the data |  |
| 5 | Mid-term – coding challenges | Coding challenges one |  |
| 6 |  | Panel Data Manipulation: long vs wide datasets  Append or Merge dataset |  |
| 7 | Mid-term – coding challenges | Coding challenges two  Date Function orientation |  |
| 8 | Data Quality Control | Reshape Dateset  Missing data  Constrain and flags values  Duplicate observation |  |
| 9 | Looping and Automation outputs | Looping commands and variables  Automatic exporting results tables |  |
| 10 | Final Project (to reflect all course content) |  |  |

Note: participants need to bring their own laptop for course work. Individual assignments and homework with different datasets will be assigned daily and weekly.

Reference:

* Lembcke, LSE Introduction to Stata
* Tobias Pfaff, A brief introduction to stata with 50+ basic commands
* Austin Nichols, Intro to Stata