**Stata**

Purchase

* <https://www.stata.com/order/new/edu/profplus/student-pricing/>

Tutorials

* <https://stats.oarc.ucla.edu/stata/>
* <https://www.youtube.com/user/statacorp>

Stata Interface

* <https://www.youtube.com/watch?v=02qrJEblQwk>

Quick Help in Stata

* <https://www.youtube.com/watch?v=UpXNMeTzmuI&t=5s>

Basic Scatterplots in Stata

* <https://www.youtube.com/watch?v=GhVGpe3lb3E&t=9s>

Import Excel Data into Stata

* <https://www.youtube.com/watch?v=N5ZFgzN2_7c&t=4s>

Copy/Paste Data from Excel into Stata

* <https://www.youtube.com/watch?v=iCvZ9pvPy-8&t=6s>

Simple Regression

* <https://www.youtube.com/watch?v=HafqFSB9x70&t=4s>

**Specific Examples**

1. Opening a Stata session

* Double click a Stata file (e.g., dataset).
* Open Stata from the Programs menu and select File and Open.
* Open Stata and type – use filename (with path) in Command (window)

2. Describing a dataset

* Type in Command:
  + describe
  + describe var1 var2
  + d

3. Summarizing a dataset

* Type in Command:
  + summarize
  + summarize var1 var2
  + summarize, detail
  + su, d
* Select the tab Statistics

4. Displaying the data

* Type in Command:
  + browse
  + browse var1 var2
  + br
  + edit
  + edit var1 var2
  + ed
* Browse/Edit icons

5. Linear Regression

* Type in Command
  + regress var1 var2
  + reg var1 var2
* Select the tab Statistics

6. Fitted Values

* Type in Command
  + reg var1 var2
  + predict yhat

7. Residuals

* Type in Command
  + reg var1 var2
  + predict uhat, residuals
  + predict uhat, res

8. General

* To generate a variable x = 100 – type: generate x = 100; g x = 100
* To replace the same by 1000 – type: replace x = 1000
* Correlation between 2 variables – type: correlate var1 var2; cor var1 var2
* To sort on a variable – type: sort var1
* Frequency distribution for a (discrete) variable – type: tabulate var1; tab var1
* Dropping a variable – type: drop var1
* Keeping only one variable (and dropping rest) – type: keep var1
* If qualifier – type: summarize var1 if var2==1; summarize var1 if var2 > 1; summarize var1 if var2 > 1 & var3 < 10; summarize var1 if var2 > 1 | var3 < 10; summarize var1 if (var2 > 1 & var3 < 10) | var4==12
  + & denotes AND
  + | denotes OR
* Counting – type: count if var2 > 1
* Renaming a variable – type: rename var1 var2
* Saving a file – type: save filename (with path)
* To clear existing data – type: clear
* To load new data – type: use filename (with path)

9. Graphs

* Scatter plots
  + Type in Command: twoway scatter var1 var2
  + Select the tab Graphics
* Scatter plots with regression line
  + Type in Command: twoway (lfit var1 var2) (scatter var1 var2)

10. Import from excel

* Select File and then Import
* Type Edit and then Copy and Paste

11. Help

* Type in Command
  + help regress
  + search regression
  + help functions
  + help operator
* Help tab

12. Do and log files

* log using filename (with path).log, replace
* set more off
* \*Comment: Linear Regression
* reg var1 var2
* log close
* clear all

13. Files

* Data - .dta
* Code - .do
* Log - .log or .smcl