

Welcome to ARE 256B Sections!

Mahdi Shams

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Outline I

Introduction I

- ▶ I'm Mahdi Shams, your TA for this course.
- ▶ I'm a second-year PhD student in Davis ARE.
- ▶ Originally from Tehran, Iran, I pursued my undergraduate studies in engineering there and later earned my master's degree in economics in Toulouse, France.
- ▶ I'm interested in the intersection of environmental policy and public economics, and I believe econometrics plays a crucial role in my work.
- ▶ I'm here to assist you, so feel free to reach out with any questions or concerns!
- ▶ my email is mashams[at]ucdavis[dot]edu.

It's your turn now!

Announcements I

Announcements:

- ▶ Sections: Fridays 9:00-9:50 am at Veihmeyer Hall 116
- ▶ Mahdi OHs: Fridays 10:00-11:00 am at SSH 2136

Setup I

Access to Stata:

- ▶ option 1: <https://stata-support.ucdavis.edu/>
- ▶ option 2: <https://virtuallab.ucdavis.edu/>
- ▶ option 3: ARE Computer Lab

Week 1: Stata Basics I

- ▶ type doed in the command window to open the do-file editor
- ▶ asking help 1: `help "command"`
- ▶ asking help 2: google *help "command" stata*
- ▶ basic stata syntax: `command varlist if in, options`
- ▶ setting working directory
- ▶ importing data
- ▶ browse, describe, ...
- ▶ operators
- ▶ getting summary statistics: `summ`, `tabulate|`, ...
- ▶ `gen`, `replace`, `drop`, `keep`, ...
- ▶ using functions: `log(x)`

Week2: Lectures 1 to 3 (limited dep. variable) and presentation I

Lectures

1. estimating linear models
2. estimating probit models
3. plotting the scatter plot
4. computing the rmse

Presentation

Motivation: Fixed costs + now you have more time

1. template do file
2. making log file and converting it to pdf
3. making the tex file (look at the example.tex)

Week 3 I

- ▶ creating a random subsample
- ▶ Censoring
- ▶ Sample Selection
- ▶ exporting plots
- ▶ exporting regression tables using estout –
- ▶ HA1 Questions!

Censoring I

- ▶ Y is known exactly if some criterion defined in terms of Y is met.
- ▶ X variables are observed for the entire sample
- ▶ Example: Determinants of income; income is measured exactly only if it is above the poverty line. All other incomes are reported at the poverty line (the lower threshold).

Sample Selection I

- ▶ is observed only if a criteria defined in terms of some other random variables (B) is met (e.g. In our example, the criteria is employment status).
- ▶ We observe the determinants of B (which we call by Q) for the entire sample.
- ▶ Example: Survey data with item or unit non-response

Week 4 I

- ▶ 'Locals' and \$globals in Stata
- ▶ Loops in Stata
- ▶ MT 2022 Review?

Links I

- ▶ Example .do file
- ▶ Example .tex file
- ▶ Stata Visual overview for creating graphs
- ▶ exporting regression tables using estout
- ▶ L^AT_EX in 30 Minutes