Assignment 1

Due Nov. 25 2023, by 23.59 o'clock on moodle

Preparation

Create a Github repository for the course, it can be public or private. Add user costanzadeacutis to the repo as collaborator.

The assignment

This is an assignment that you may do alone or in a pair within your group.

If you decide to complete the assignment in pairs, make sure to add the names of both (!) students to the pdf submission. One submission per pair to Moodle is sufficient.

You shall write a short (max 1 page, excluding graphs, tables) report that describes your major decisions, your estimated models, interpretations, and summary. You may have a descriptive data table (optional), a regression table and up to two graphs. All codes should be pushed to your Github repo, with appropriate commit messages.

The dataset

Consider the cps-earnings dataset at https://osf.io/g8p9j/ (Cross section. N=149,316 individuals).

Pick an occupation and filter data accordingly.

You must choose different occupation(s) from what is covered in Ch09 (1005 + 1240). Occupation codes are here: https://osf.io/57n9q/. You may merge occupations as you see fit (eg. all tax/insurance specialists, etc.).

Tasks

- Show the unconditional gender gap.
- Show how the gender gap varies with the level of education. Consider several options to model the relationship.
- Interpret your key coefficients, including statistical inference.
- Summarize your findings.

Grading

- This assignment is worth 8 points.
- 2p data work.
- 4p modelling, graphs and tables.
- 2p interpreting and summarizing findings.
- Late submission: 24hs: -25%; more: zero points

What to submit

1. A pdf-report.
2. Link to your Github homepage with your codes, markdowns, etc.

Hints re Git and commit

Committing is a habit, and people may have different ways. Some people commit very frequently, others less so. We expect you to have at least a few commits, one per major parts of the exercise. The first commit will set up the folder/file for the assignment. Then you can commit, say data work, descriptives, graphics, and regressions. And then, commit your edits. Make sure the commit text is short but meaningful: Good: "adding graphs", "add regressions", "edit typos". Bad: "update".