What is this course about?

ECON 3640-001

Marcio Santetti Spring 2022

Defining Statistics

Trigger warning

Learning this course's material may **irreversibly** change the way you approach your own interests, and this fact may make it impossible to maintain your *current beliefs*.

The learning journey may be very *stressful*, especially if you are not used to being *frustrated*.

Defining Statistics

Statistics embodies the practice of collecting and analyzing data, either quantitative or qualitative.

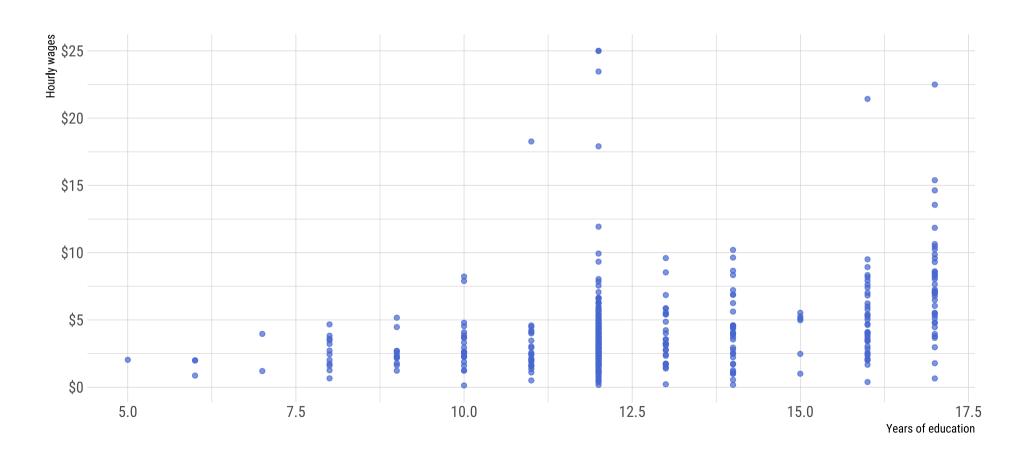
Its purpose is to **describe**, **measure**, and **infer** relevant information from any data one has available.

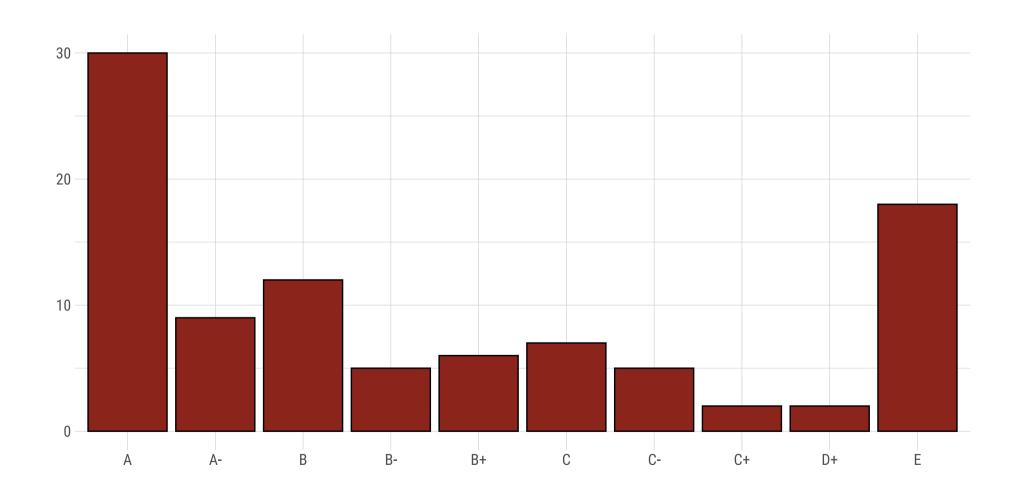
But data are fuzzy.

Some data from Mroz (1987):

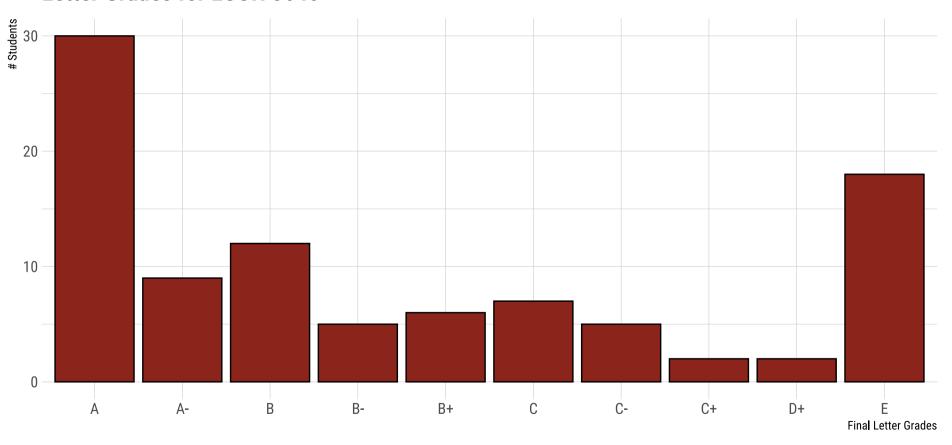
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#>	4	456	12	1.10	1	6	7	7	3.54	53
#>	5	1568	14	4.59	1	7	12	14	10	32
#>	6	2032	12	4.74	1	33	14	7	6.71	57
#>	7	1440	16	8.33	1	11	14	7	3.43	37
#>	8	1020	12	7.84	1	35	3	3	2.55	53
#>	9	1458	12	2.13	1	24	7	7	4.22	52
#>	10	1600	12	4.69	1	21	7	7	5.71	43
#>	11	1969	12	4.06	1	15	12	3	9.80	34
#>	12	1960	11	4.59	1	14	14	7	8	47
#>	13	240	12	2.08	1	0	16	16	5.30	33
#>	14	997	12	2.27	1	14	10	10	4.34	46
#>	15	1848	10	3.68	1	6	7	7	10.9	45

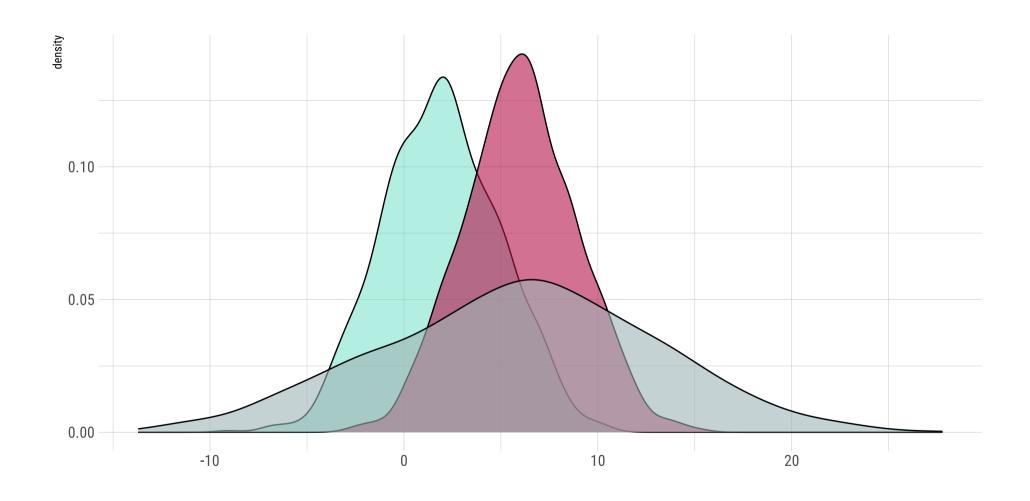
Some data from Mroz (1987):





Letter Grades for ECON 3640





Some practical tips

Is this class hard?

- What does an Economist always have as a **standard answer**?
 - It depends!

- Learning Statistics is quite a journey
 - But well worth it!
 - Will not be exhausted with this course
 - Here, a nicer challenge (theory and practice)
 - The instructor is here to help you

Is this class hard?

- In summary:
 - Take this class seriously
 - Come to class in time and with an open mind
 - Ask questions
 - Do the assignments
 - Exams will reflect what assignments (esp. Problem Sets) have asked you
- About R
 - It may take some time to feel comfortable with it
 - But after a few weeks, it will become a good friend
 - Feed it well and it will be fine!

A friend's advice

- Create a **folder** in your computer for this course.
 - Please.

- We will use **hundreds** of different files throughout the semester.
 - **Organization** is key!
 - Even better: create folders for **each week**. It will make your life easier.

Next time: Descriptive Statistics