

DESCRIPTION

The course is an overview on the fundamental principles and tools of statistical inference.

LECTURE MATERIAL

The lecture material will be made available soon.

OUTLINE

- Univariate descriptive statistics: types of data; graphical representations; means; variability.
- Bivariate descriptive statistics: correlation and association.
- Probability: elementary probability rules; random variables; common families of discrete and continuous distributions.
- Statistical inference: point estimation; method of moments and maximum likelihood estimators.

LECTURES

At end of each lecture, some exercises will be assigned. The students are encouraged to collaborate to solve them. Some solutions will be shown in class. Lecture material will be available online for students after classes.

REFERENCES

[1] Agresti, A., & Franklin, C.A. Statistics: The Art and Science of Learning from Data, 3rd Edition (2013).

More advanced book:

[2] Casella, G., & Berger, R.L.: Statistical Inference, Duxbury Press (2001).

OFFICE HOURS

By appointment: ALFONSO.RUSSO@UNIROMA2.IT

