



ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA



L-Università
ta' Malta



The UPSKILLS Learning Content

A glimpse into language data science

A learning block dedicated to language data science intended as statistical analysis of data about language. It covers foundational statistical concepts involved in data description and visualisation, and it introduces statistical hypothesis testing and inference.

🕒 6 ECTS

+ a student project amounting to 1 extra ECTS



The UPSKILLS learning content is open access, adaptable and modular, which means that you can either wholly incorporate it in your curriculum or pick and choose any of the following modules to upskill your existing course:

- **Welcome to statistics** – populations and samples, variables, measurement (1 ECTS)
- **Working with R** – installing R, functions, objects, data preparation (1 ECTS)
- **Calculating summary numbers** – frequencies, mean, median, measures of variability (1 ECTS)
- **Showing data on graphs** – barplots, boxplots, scatterplots, mosaic plots (1 ECTS)
- **The logic behind inferential statistics** – hypothesis testing, statistical significance, inference (1 ECTS)
- **Some simple statistical tests** – Chi-square, correlation, t-tests, Wilcoxon tests (1 ECTS)
- **Student project** – putting the pieces together by studying the frequency and familiarity of words (1 ECTS)

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<https://upskillsproject.eu/>

Co-funded by the
Erasmus+ Programme
of the European Union

