Statistics

Lecturer: Francesco Alessio Toraldo

Hours: 25
Credits: 3
Semester: I
Formazione trasversale (compulsory)

Description

1: Logical bases of statistical (re)thinking: null hypothesis statistical testing (NHST)
2: Limits of the NHST approach and replication crisis in science; Bayesian approach and Bayes Factor
3: NHST/Bayesian t-tests and One-way ANOVA
4: Multiple comparison correction
5: Factorial ANOVA, ANCOVA
6: Multiple regression and collinearity
7: Repeated measures designs
8: Mixed Linear Models (or "Multi-Level" models)
9: Outlier detection, over- and under-fitting
10: Generalized (Mixed) Linear models

Evaluation

The evaluation will be based on class exercises.

Calendar

January 16th – 9.15-11.45           Rimandata al 29 Gennaio, 9.15 – 11.45
January 17th – 9.15-11.45
January 18th – 9.15-11.45
January 24th – 9.15-11.45
January 25th – 9.15-11.45
January 31st – 9.15-11.45
February 5th – 9.15-11.45
February 6th – 14.30-17.00
February 7th – 9.15-11.45

Classroom L-13 – Palazzo San Tommaso – Università di Pavia