



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Introduction to statistics with R (part II): linear and logistic regression models

2223-DOTT-MOD10-2

Title

Introduction to statistics with R (part I): data description and basic inference

Teacher(s)

Prof. Davide Paolo Bernasconi

Language

English

Short description

Objectives

The course, through lectures and computer lab sessions, aims to illustrate the fundamentals of statistical modeling with multiple covariates focusing on the linear and logistic regression models.

At the end of the course the participants should be able to recognize when to perform a linear or logistic regression, check the validity of the assumptions required, fit the model to the data, correctly interpret the model coefficients and evaluate the goodness of fit.

Course program

Day 1:

- Correlation and simple linear model
- Multiple linear model
- Lab session with R

Day 2:

- Introduction to generalized linear models
- Logistic regression model
- Lab session with R

Target audience

Doctoral students of any discipline who are interested in the practical application of basic statistical modeling for data analysis in scientific research

Participants

Min 10 Max 40

CFU / Hours

1 CFU / 8 hrs

Teaching period

31/01/2023 9 am -1pm lab907

02/02/2023 1.30 pm - 5.30 pm lab907

course registration on “Segreteria online”: from 10/01/2023 to 25/01/2023

Sustainable Development Goals

QUALITY EDUCATION
