UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

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

2425-102R-10

Title

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

Teacher

Davide Paolo Bernasconi

Language

English

Short description

Objectives
The course, through lectures and computer lab sessions, aims to illustrate the fun-daments 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 per-form 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

Maximum number of participans

50

Assessment method

Test with multiple choice questions

CFU / Hours

1 CFU / 8 hrs

Teaching period and mode

10/02/25 9 am -1 pm U1.04
12/02/25 9 am -1 pm U2.02

course registration on “Segreterie online”: from 20/01/2025 to 06/02/2025

The course will be taught in presence with the possibility of remote participation through streaming lessons and recordings.

Sustainable Development Goals

QUALITY EDUCATION