



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

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

2223-DOTT-MOD10-2

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#### Titolo

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

#### Docente(i)

Prof. Davide Paolo Bernasconi

#### Lingua

English

#### Breve descrizione

##### 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 / Ore

1 CFU / 8 hrs

## Periodo di erogazione

31/01/2023 9:00 am - 1:00 pm 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

ISTRUZIONE DI QUALITÀ

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