



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Clinical Data Science: Advanced Statistics I

2425-1002-02

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#### Obiettivi

To develop statistical skills and knowledge for the analysis and interpretation of studies through advanced statistical methods used in clinical trials and observational studies.

#### Contenuti sintetici

Analysis of Variance (ANOVA) – 2h Laura Antolini  
Principles of regression and models for continuous data – 6 h Paola Rancoita  
Effect measures with binary endpoints – 2h Stefania Galimberti  
Regression models for binary response – 6h Chiara Brombin  
Variable selection – 2h Federico Ambrogi  
Prediction models – 2h Federico Ambrogi  
Bayesian Analysis – 8h Bernardo Nipoti  
Missing data – 4h Stefano Vezzoli

#### Programma esteso

#### Prerequisiti

#### Modalità didattica

## **Materiale didattico**

### **Periodo di erogazione dell'insegnamento**

May 4th 9.00-11.00 Laura Antolini - STREAMING  
May 4th 11.30-13.30 Paola Rancoita - STREAMING  
May 8th 17.00-19.00 Paola Rancoita - STREAMING  
May 10th 17.00-19.00 Paola Rancoita - STREAMING  
May 11th 9.00-11.00 Stefania Galimberti - STREAMING  
May 11th 11.00-13.00 Chiara Brombin - STREAMING  
May 15th 17.00-19.00 Chiara Brombin - STREAMING  
May 17th 17.00-19.00 Chiara Brombin - STREAMING  
May 18th 9.00-13.00 Federico Ambrogi - PRE-RECORDED VIDEO (9.00-12.00) + STREAMING (12.00-13.00)  
May 22nd 17.00-19.00 Bernardo Nipoti - STREAMING  
May 24th 17.00-19.00 Bernardo Nipoti - STREAMING  
May 25th 9.00-13.00 Bernardo Nipoti - STREAMING  
May 29th 17.00-19.00 Stefano Vezzoli - STREAMING  
May 31st 17.00-19.00 Stefano Vezzoli - STREAMING

**COURSE EVALUATION:** June 7th 17.00-19.00

### **Modalità di verifica del profitto e valutazione**

Individual assignment - Multiple choice questions

### **Orario di ricevimento**

### **Sustainable Development Goals**

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