



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Clinical Data Science: Advanced Statistics I

2324-1002-02

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#### **Titolo**

Clinical Data Science: Advanced Statistics I

#### **Docente(i)**

- Laura Antolini
- Paola Rancoita
- Stefania Galimberti
- Chiara Brombin
- Federico Ambrogi
- Bernardo Nipoti
- Stefano Vezzoli

#### **Lingua**

English

#### **Breve descrizione**

##### **COURSE OBJECTIVES**

To develop statistical skills and knowledge for the analysis and interpretation of studies through advanced

statistical methods used in clinical trials and observational studies.

## **TOPICS**

Analysis of Variance (ANOVA) – 2h Laura Antolini

Principles of regression and models for continuous data – 6h 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

## **CFU / Ore**

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## **Periodo di erogazione**

May 13th 9.00-11.00 Laura Antolini - PRE-RECORDED VIDEO

May 13th 11.00-13.00 Paola Rancoita - STREAMING

May 15th 17.00-19.00 Paola Rancoita - STREAMING

May 19th 17.00-19.00 Paola Rancoita - STREAMING

May 20th 9.00-11.00 Stefania Galimberti - STREAMING

May 23rd 17.00-19.00 Chiara Brombin - STREAMING

May 24th 17.00-19.00 Chiara Brombin - STREAMING

May 26th 17.00-19.00 Chiara Brombin - STREAMING

May 27th 9.00-11.00 Federico Ambrogi - PRE-RECORDED VIDEO

May 27th 11.00-13.00 Federico Ambrogi - PRE-RECORDED VIDEO (11.00-12.00) + STREAMING (12.00-13.00)

June 7th 17.00-19.00 Bernardo Nipoti - STREAMING

June 9th 17.00-19.00 Bernardo Nipoti - STREAMING

June 10th 9.00-13.00 Bernardo Nipoti - STREAMING

June 16th 17.00-19.00 Stefano Vezzoli - STREAMING

June 19th 17.00-19.00 Stefano Vezzoli - STREAMING

**COURSE EVALUATION:** June 23rd 18.00-19.00

## **Sustainable Development Goals**

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