UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Clinical Data Science: Advanced Statistics I

2425-1002-02

Aims

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

Contents

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

Detailed program

Prerequisites

Teaching form

Textbook and teaching resource

Semester

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

Assessment method

Individual assignment - Multiple choice questions

Office hours

Sustainable Development Goals