



Professor Roberto Ambrosini, University of Milan
Teaching assistant: Dr. Alessandra Costanzo, RTD-B, University of Milan

Multivariate analysis of ecological, environmental and molecular data

MARCH 6-20, 2024

The course aims to introduce students to advanced statistical methods for multivariate analysis of ecological and environmental data, like cluster analysis, principal component analysis, and redundancy analysis. These statistical methods can be applied also to data matrices obtained from molecular analyses, like OTU tables and gene expression patterns.

CFU: 4

Course Programme and Calendar

06/03/2024 9:30 AM -1:30 PM

Introduction to multivariate statistics and to the R software, data matrix, distances and their properties

Aula 310 - Celoria Laboratori Informatici, via Celoria 20

12/03/2024 1:30 PM -5:30 PM

Cluster analysis with R

Aula BM (ex B9) – settore Bioscienze

13/03/2024 9:30 AM -1:30 PM

Principal component analysis with R

Aula Gamma - Informatica, via Celoria 18

19/03/2024 1:30 PM -5:30 PM

Analysis of ecological structures with R, part 1: matrix comparison methods (Mantel test and ANOSIM)

Aula 310 - Celoria Laboratori Informatici, via Celoria 20



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DOTTORATO IN SCIENZE AMBIENTALI



20/03/2024 9:30 AM -1:30 PM

Analysis of ecological structures with R, part 2: canonical analysis (redundancy analysis)

Aula 310 - Celoria Laboratori Informatici, via Celoria 20

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