



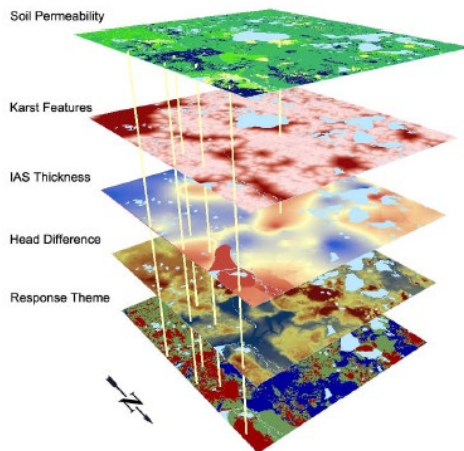
UNIVERSITÀ DEGLI STUDI DI MILANO

Corso di Dottorato in Scienze della Terra



**20-22 December 2022 - Short course (3 cfu, 15 hours) – Room: Taramelli, Chiesa
Dipartimento di Scienze della Terra “A. Desio”, via Mangiagalli 34, Milano**

Statistical and geostatistical analyses of geo-environmental data by Stefania Stevenazzi



PROGRAM

- Exploratory data analysis
- Spatial distribution of data
- Spatial correlation among data
- Temporal variation of data



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The course aims at providing advanced notions related to statistical methods and techniques in exploratory data analysis, focusing on environmental data and evaluating their spatial distribution and temporal variation. Specific topics include:

- 1) Exploratory data analysis (summary of univariate data; graphical data analysis; uncertainty description)
- 2) Spatial distribution of data (elements of geostatistical analysis: variogram modelling, kriging; validation techniques)
- 3) Spatial correlation among data (i.e., between different variables; elements of Bayesian statistics and logistic regression)
- 4) Temporal variation of data (trend analysis; uncertainty description)

The course will be composed of lectures and practical exercises. In the final session, students will be supported in the analysis of their own data.

Suggestions on catalogs and datasets available at the regional, national and European level will be provided.



Statistical and geostatistical analyses of geo-environmental data (schedule)

Day	Time	Room
Martedì 20 Dicembre 2022	10.30-12.30	Taramelli
Martedì 20 Dicembre 2022	14.30-17.30	Chiesa
Mercoledì 21 Dicembre 2022	10.30-12.30 / 14.30-17.30	Chiesa
Giovedì 22 Dicembre 2022	10.30-12.30 / 14.30-17.30	Chiesa

