



12th Course and Open Seminar on Compositional Data Analysis



As every first week of July since 2012, a 5-day course on compositional data analysis will be imparted by the Research Group in Statistics and Compositional Data Analysis (CoDaStat) of the University of Girona.

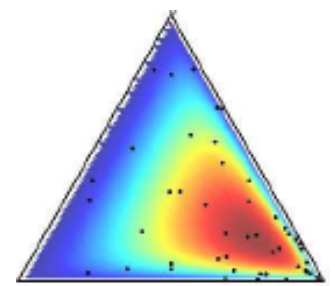
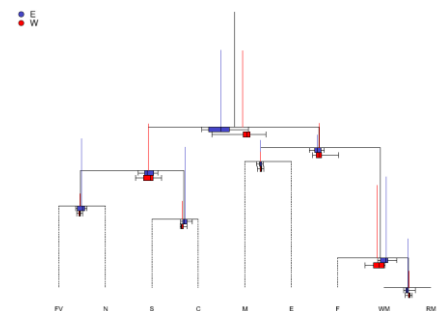
Compositional data are numerical vectors whose components represent parts of a whole. Typical examples are data expressed in percentages, ppm, ppb, or the like. The logratio approach to analyse compositional data was introduced by J. Aitchison back in the 1980s. Since then, significant progress has been made in understanding the special properties of their sample space, the simplex, and expanding the methodology and its applications.

The CoDaCourse introduces theoretical and practical aspects of the statistical analysis of compositional data, serving also as an informal forum to discuss more advanced topics. The current state of the art in the field is reviewed, and the methods are applied in guided hands-on sessions using own user-friendly software programs (CoDaPack and some R libraries). An open seminar session is planned where the students are encouraged to bring their own data!!!

Topics covered include:

- Basic principles and framework for the statistical analysis of compositional data.
- Coordinate data representations and models on the simplex.
- Exploratory analysis: compositional summary statistics, dimension reduction and specialised visualisations (biplot, balance-dendrogram).
- Treatment of irregular data: zeros, outliers and missing data.
- Introduction to multivariate analysis: MANOVA, regression analysis, unsupervised and supervised classification.

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Recommended background:
 a one-semester course in statistics
 and basic knowledge of
 multivariate data analysis

Reduced fees and
 scholarships for students and
 CoDa-Association members

How to register: visit
www.compositionaldata.com
 and fill in the form at the
 CoDaCourses menu



Delivery is subject to
 a minimum of 5
 registered students

Officially accredited by:

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