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## Exam assignment

Date  
2018-09-20

### Exam assignment Master course Geometric Data Analysis, fall 2018

Complete the following task by yourself:

Present a Geometric Data Analysis in the form of a Principal Component Analysis, Correspondence Analysis, Multiple Correspondence Analysis or Specific Multiple Correspondence Analysis. You can also present a Euclidean Clustering on basis of any of the four methods above. You can use the Taste example.xls file or the Leisure.xls file for your analysis. It is possible to use other data.

The text should contain the following:

- an introduction with presentation of research questions;
- description of the dataset and the coding of data;
- descriptive statistics on the active population and the active variables;
- the results of GDA including eigenvalues (variances of axes), contributions of variables (questions) and of categories to the total variance and to the most important axes;
- discussion on how many axes should be interpreted;
- interpretation of the most important axes with contributions of the categories that meet the threshold value, graphs on the individuals and on the categories;
- graphs and tables for supplementary variables and categories;
- a conclusion summarizing the main results.

The task should be 30,000–45,000 characters incl. spaces, footnotes and tables. The answers should be consistently substantiated with precise references to the literature (answers that do not include *page references to the literature* discussed cannot be accepted).

The answers must be written in proper academic English. Always check the text using a spell checker program. The texts should have a clear thematic structure. The submitted answers will be checked for plagiarism.

The exam assignments should be uploaded in the Student Portal in Word format (alternatively in OpenOffice, RTF, or PDF format) no later than **Monday, December 31, 2019, at 23:59**. The document should be named according to the following format: “First Name Last Name exam GDA fall 2018.” On the front page, include your name and e-mail address. The document should be paginated.

Good luck!

Mikael Börjesson