Project Topics

1. Multivariate normal distribution
2. Multivariate data visualization
3. Hotelling hypothesis testing
4. MANOVA
5. Hypotheses tests for covariance matrix Σ
6. Discriminant analysis
7. Classification analysis
8. Multivariate regression
9. Canonical correlation
10. Principal component analysis
11. Exploratory factor analysis
12. Confirmatory factor analysis / Structural Equations
13. Cluster analysis
14. Correspondence analysis
15. Multidimensional scaling

- You can work in teams of up to 3 students.
- First step is to find an appropriate dataset!
- If you have questions what to do with a specific topic, I will be more than happy to assist you with ideas.
- You project should contain the following:

  ➢ Introduction to the topic you chose (what it is used for, how it works, limitations, assumptions, so on);
  ➢ Description of the data you will use (variables, what you want to achieve with it and how it will be done);
  ➢ Analysis results (R output, interpretation and conclusions);
  ➢ Summary of findings and what they imply about the data.