

# Seminar 3 - Correlation

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CS 567 - Winter 2019

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## 1 Task

A file is given with six columns of data. You are required to analyze the data as the following:

- Take each two columns separately and analyze the data for *correlation* using the following methods:
  - Pearson's  $R$  and  $R^2$
  - Spearman's  $\rho$

The following analysis has to be reported:

1. Covariance
2. Significance
3. Standard error

The final analysis should state whether the two columns are correlated or not. You are allowed to apply resampling methods such as bootstrapping.

## 2 Submission

Write a report on the different measures and your conclusion. Include the `R` script with your submission. Submission is on Friday, 22nd February through Canvas.