

# Compulsory exercise 1: Group XYZ (add your group number here)

TMA4268 Statistical Learning V2023

NN1, NN2 and NN3 (full names of all group members)

12 February, 2023

```
install.packages("knitr")      # probably already installed
install.packages("rmarkdown") # probably already installed
install.packages("ggplot2")    # plotting with ggplot2
install.packages("dplyr")      # for data cleaning and preparation
install.packages("tidyr")      # also data preparation
install.packages("carData")    # dataset
install.packages("class")      # for KNN
install.packages("pROC")       # calculate roc
install.packages("plotROC")    # plot roc
install.packages("ggmosaic")   # mosaic plot
```

## Problem 1

For this problem you will need to include some LaTeX code. Please install latex on your computer and then consult Compulsor1.Rmd for hints how to write formulas in LaTeX.

- a)
- b)
- c)
- d)
- e)

## Problem 2

Here is a code chunk:

```
library(carData)
?Salaries
GGally::ggpairs(Salaries)
```

- a)
- b)
- c)

## Problem 3

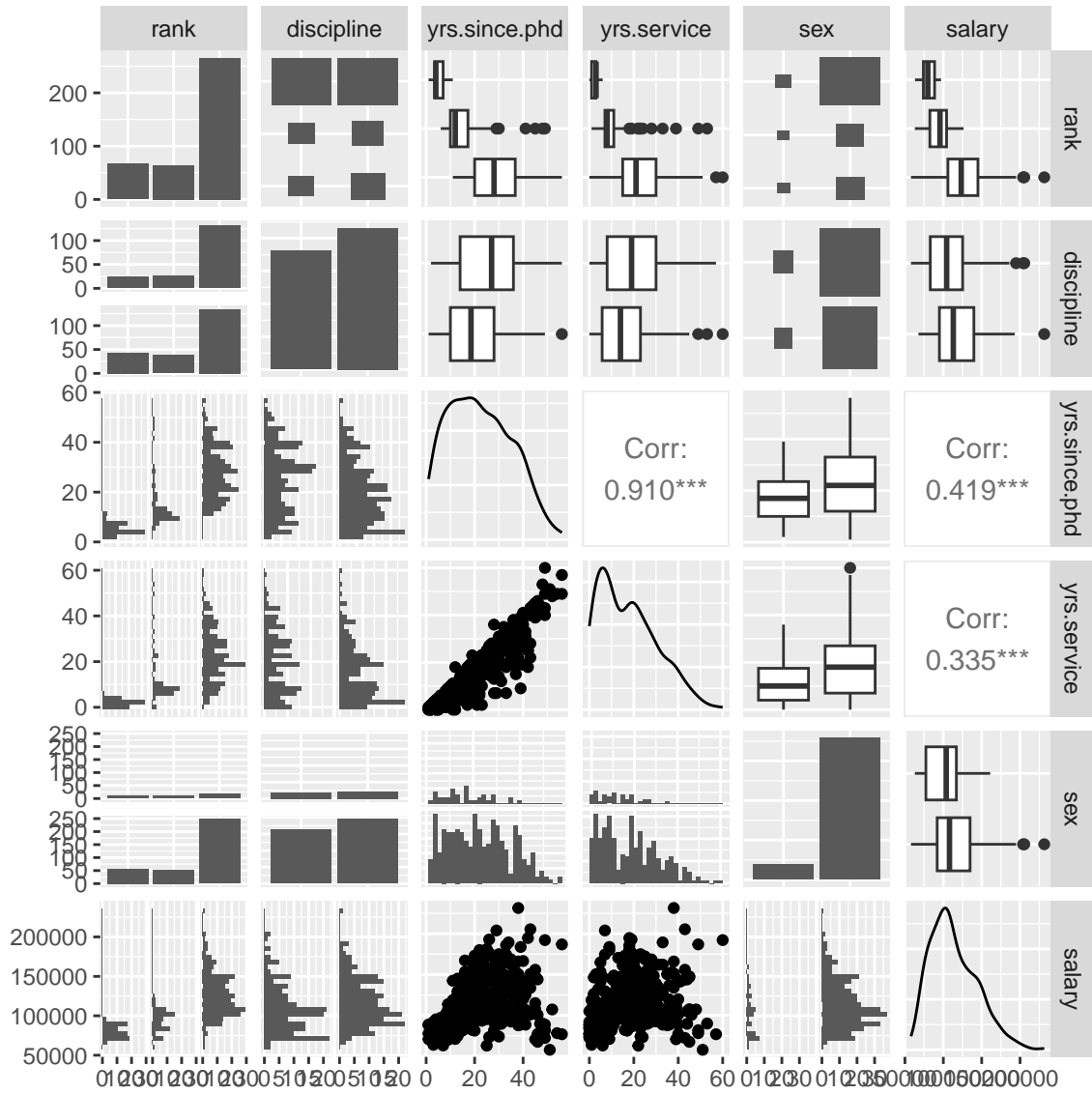


Figure 1: Pairs plot of the academic salary data set.

## Problem 4