# Title of the semester project

true true true May 18, 2021

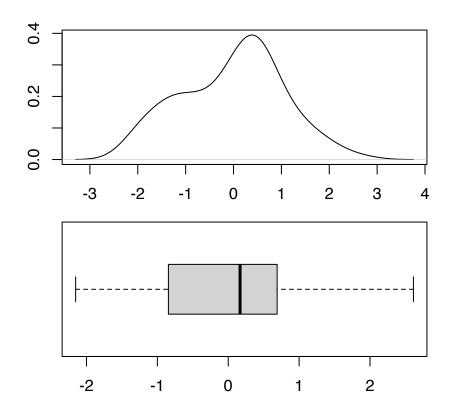
### RMarkdown basics

This is a citations: Efron (1992).

This is a displayed but not evaluated R code chunk

print("I love R")

This is an  ${\tt R}$  code chunk, not displayed but evaluated.



This is an inline R code: Hence, the mean of the data is of -0.0247732.

This is a  $\LaTeX$  equation

$$f(x) = \frac{1}{\sigma\sqrt{2\pi}} e^{-\frac{1}{2}\left(\frac{x-\mu}{\sigma}\right)^2}$$

This is a inline LATEX equation:  $\frac{1}{n}\sum_{i=1}^n a_i = \frac{a_1 + a_2 + \dots + a_n}{n}$ 

#### Introduction

La moyenne vaut -0.02

### **Analysis**

Description of the task

#### Motivation

Results: description and interpretation

#### **Parameters**

SAMPLESEED <- 9886 SIMULATIONSEED <- 1021 n <- 500 muX <- 0 muY <- 1 sX <- 1.8 sY <- 0.5 rho <- 0.44 out <- 0.07 dev <- 3 angle <-0

## Generate data, nonlinear setting

 $n <-500 \text{ set.seed}(SAMPLESEED) df <-gen_nonlinear(n=n, muX=muX, muY=muY, sX=sX, sY=sY, angle=pi) # population correlation in this setting rho <- cor_nonlinear(muX=muX, muY=muY, sX=sX, sY=sY, angle=angle) plot(df, main=paste("Population correlation =", round(rho, 3)))$ 

Were these results expected: discussion

Statistical methods used

Acquired skills during the term project

Additional element

## Conclusion

Efron, Bradley. 1992. "Bootstrap Methods: Another Look at the Jackknife." In  $Breakthroughs\ in\ Statistics,\ 569–93.$  Springer.