

# Homework 1

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This will be your first assignment with these main objectives in mind:

- Build your own RMarkdown document and report from scratch
- Master different aspects of RMarkdown syntax
- Practice git and GitHub workflow

## Part 0: First git commit!

## Part 1: Biography

Create a biography of yourself. This can be in any format or order, but make sure to include:

- A **picture** of yourself with any **caption**
- A **paragraph** including
  - Your name
  - Favorite hobby
  - One interesting fact about yourself
  - Your favorite equation in **LaTeX** form
  - Your favorite quote in **blockquote** format
  - Be sure to **cite** it as well using **.bib**
  - A **table** with your courses (column 1) and time (column 2) allocated for the course

## Part 2: R Markdown Syntax

For the rest of this assignment, perform these tasks:

- Show how **cache = T** leads to a misleading answer (recreate video example)
- Simulate 100 random samples from a  $N(0, 1)$  distribution
- Calculate its **mean** and **variance**
- Are these values what you expected? Explain why or why not.

`norm(100)` and find mean