

Stat 201 - Generalized Linear Models**Optional Assignment**

1. Review the R codes presented during this week (look in the directory **R material**).
2. Load the dataset **achievement** from the library **Dobson** and write you own R script to replicate the results of Section 6.5.
3. Load the dataset **sugar consumption** form the course web page. It includes the data of Table 6.16, described in exercise 6.1, where **time** is the midpoint of each period interval.
 - (a) Plot the data to see the effect of both time and sugar type on consumption
 - (b) Propose a linear model that adequately fits the data. Interpret the regresison coefficients.
 - (c) Using the proposed model, provide a 95% confidence interval for the average annual change of consumption of each type
 - (d) using the proposed model, provide a 95% confidence interval for the consumption of refined sugar in 2021
4. DB book: exercise 6.6