**STAT 6345 Final Project**

These are data based on a 5% sample of all births occurring in Philadelphia in a recent year. The sample has 1115 observations (after deleting 32 cases with incomplete information) on five variables:

* black = Mother is black (1=yes, 0=no),
* educ = Mother's years of education (0,17),
* smoke = Whether mother smoked during pregnancy (1=yes, 0=no),
* gestate = Gestational age in weeks, and
* grams = Birth weight in grams.

We want to study how the outcome (grams) is related to the other factors.

Instruction. The main part of the project report should not exceed 3 pages. You may add tables/figures at the appendix, please also attach your R code.