Linear Models: STAT 312a / STAT 612a
Fall 2015    Monday, Wednesdays 11:35 - 12:50    60 Sachem Street (Watson Center), Rm A60

Instructor: Taylor Arnold
E-mail: taylor.arnold@yale.edu
Office: 24 Hillhouse, Rm 203
Office Hours: Wednesdays 13:30-15:00
Teaching Assistant: Jason Klusowski
TA E-mail: jason.klusowski@yale.edu
TA Hours: TBD

Course Description:
The geometry of least squares; distribution theory for normal errors; regression, analysis of variance, and designed experiments; numerical algorithms, with particular reference to the R statistical language.

Grading:
• 70% Problem Sets
• 15% Mid-Term I (2015-10-12)
• 15% Mid-Term II (2015-11-18)

Suggested Prerequisites:
• Linear Algebra at the level of MATH 222
• Statistical theory at the level of STAT 242
• Some familiarity with a statistical software or programming language, preferably R

Suggested References:

Problem Sets:
Problem sets are assigned roughly once every two weeks; this yields a total of 7 sets. You may discuss problem sets with other students, but must write up your own solutions. This means that you should have no need to look at other student's final written solutions.

Tentative due dates for problem sets: 09-14, 09-28, 10-05, 10-19, 11-02, 11-09 and 12-16.