Lab 1 Introduction: Bio 656 Multilevel Models

First, we will ensure that you have the appropriate functions in STATA for this course. You need to have:

- xtmixed
- gllamm

xtmixed

The command xtmixed, available in STATA 9.0 and above, fits linear (Gaussian) mixed models. You do not have to download xtmixed because it should already be included in your (newer) version of STATA. However, take note of the helpful hint below.

Helpful hint:

If, after updating your version of STATA, you have problems when you run xtmixed (i.e., an error message like $_xtm_setup$ () not found) type the command

update swap

When STATA starts up again, xtmixed should work.

gllamm

The STATA program <code>gllamm</code> is used to estimate Generalized Linear Latent And Mixed Models. The function <code>gllamm</code> can handle responses that are continuous, counts, duration/survival data, dichotomous, ordered and unordered categorical responses and rankings. Note that <code>gllamm</code> is not recommended in most cases for models with only continuous outcomes because <code>xtmixed</code> is computationally more efficient. For more information on <code>gllamm</code>, go to the website: http://www.gllamm.org or go to the 'software' page on our course website and check out the <code>gllamm</code> manual .pdf.

Installation of gllamm:

To check if you already have gllaam installed, type

which gllaam

If you get a message like

command gllamm not found as either built-in or
ado-file

Then you should install gllamm.

Make sure you are connected to the internet, then type

ssc install gllamm

If you already have gllamm installed, update your version with

ssc install gllamm, replace