

Abstract

In many fields, generalized linear mixed models (GLMM) are increasingly being used to account for random effects among a group or treatment. Observations may occur in clusters, such as observations on children within the same family or students within the same class. Observations within the same cluster tend to be more alike than observations from other clusters, that is, observations within the same cluster are not independent. Analyses that ignore the dependence among observations could lead to invalid inference. One approach to account for such dependence is through the use of random effects. In this project, we review the GLMM and illustrates an application of the GLMM to a real data set.