Ordinary Least squares model Yij = Boj + Bij xij + Ei,j 62/or i = 1 - n j, j = 1 - m. Eig $N(0, 6j^2)$ model each gehool separately Problem: Some school has small sample size yi=BotB, Xi+Ei h=2nj combine all data, i=1---n. Problem: school behaves differently Hierarchical Model Eij~N(0,62) Yij = Boj + Big xij + Eij Bj = (Boj, Bij) ~ MVN(O, E)