









STEP FOUR: Accept Bo = \$1,0 W. probability r STEPS 5-7: Repeat for Bu STEP EIGHT: Repeat iterations Q-7 prob of posternor if you use the draws prob of going from Boo > Bro Note that r is prob of going from 310 800 If I is small, then it is NOT a good idea to move to the Value you drew. If r is large, then it is a good idea to move. How is this different from a Cribbs Sampler? In the G.S. the Bo is our Oy \$ the B, is our O2. So r becomes = 1 meaning you always accept. Now remember, the linear line on page 16 is from Yt ~ Poisson (Bot Bit) where Bo = 1, BI = 3. Again, we don't see this. We see samples drawn from it which are our circles on that graph We guess \$ = 2, \$ = 2. Now we perform the algorithm above. We get a set / BOD | POD Where it is possible to have a L POI J, L POI J, ... String of equal terms blc we are able to reject under this algorithm. Plotting the chains yields page 17. Plotting the autocorrelation yields page 18. Note that there is strong autocorrelation. Why? T= 50 since we are rejecting quite frequently. That is we are rejecting the drawn sample with probability I-T. So you are staying at the same spot. This happens because our candidate density is not a good indicator of where our parameters want to go. Since we are staying at the same value of Bo or B. For long periods of time, I high autocorrelation. Page 19 plots the values of Bo & B. after burn & thinning.

Metropolized - within - Gibbs Say you are using Gibbs and so you are conditioning. If you reach a step where you can't get the conditional you use Metropolis.