Priors

j=1,2,..,n;

m~ Nlm,v) anGamrala,bl

V ~ Gammacc,di

P(M1-) x 1 x 1 x 1 1 2 2 4 (m-v) 2 4 (m-v)2

α N((κχναφ) (χνξε; + φν), (κχναφ)) -2μ(χνξε; + φν)

$$\rho(\lambda l-1) \propto \frac{\pi}{\pi} \frac{1}{\pi} \frac{1}{\pi} \frac{\lambda^{2} (Y_{11}-\theta_{1})^{2}}{2} \times \frac{\pi}{\pi} \frac{1}{\pi} \frac{1}{\pi}$$

βί_{ρχι} ιχρ

log Yij = Bio + Bi, Xi, + Biz Xiz + Bizlog(Xi,) x Xiz

Ϋ́; = X;β; + ε;

0 ~ WAN(Wo , VO)

Z~ Invwish(no, so)

X~ Garmalaoibo)

B: ~ MVNIB, E)

₹ilβi, λ ~ MVN(x; βi, λ Ini×ni)

ρι Ϋι, βι, λ, θ, ΣΙ α πρριΨιβι, λιριβι(Β, ΣΙ] x ρισι x ριΣι x ριλι

$$\begin{array}{c} \rho(\beta;1-) & \propto & \rho(\hat{\gamma};1|\beta;1,\lambda) \, \rho(\beta;1|6,z) \\ & \times \, e^{\frac{1}{4}} & \times \, e^{\frac{1}{4}} \, (\lambda \times_{i}^{T} X_{i}^{2} + z^{-1}) \, e^{-\frac{1}{4}} \, (\lambda \times_{i}^{T} X_{i}^{2} + z^{-1}) \\ & \times \, e^{\frac{1}{4}} & \times \, e^{\frac{1}{4}} \, (\lambda \times_{i}^{T} X_{i}^{2} + z^{-1}) \, e^{-\frac{1}{4}} \, e^{-\frac{1}{4}} \, e^{-\frac{1}{4}} \\ & \times \, e^{\frac{1}{4}} \, (\lambda \times_{i}^{T} X_{i}^{2} + z^{-1}) \, (\lambda \times_{i}^{T} X_{i}^{2} + z^{-1}) \, e^{-\frac{1}{4}} \\ & \times \, e^{\frac{1}{4}} \, (\lambda \times_{i}^{T} X_{i}^{2} + z^{-1}) \, (\lambda \times_{i}^{T} X_{i}^{2} + z^{-1}) \, e^{-\frac{1}{4}} \\ & \times \, e^{\frac{1}{4}} \, (\lambda \times_{i}^{T} X_{i}^{2} + z^{-1}) \, (\lambda \times_{i}^{T} X_{i}^{2} + z^{-1}) \, e^{-\frac{1}{4}} \\ & \times \, e^{\frac{1}{4}} \, (\beta_{i}^{2} - \sigma_{i}^{2}) \, (\beta_{i}^{2} - \sigma_{i}^{2}) \, e^{-\frac{1}{4}} \, e$$

PINI-1 & TICPIGILBI, NI X PINI

Model

$$\Theta \sim MVN[M_0, L_0]$$
 $Z \sim Invwish(\eta_0, S_0)$
 $\beta_i[\theta, Z \sim MVN[\theta, Z]]$
 $Z_{ij} \mid \beta_i \sim MVN[X_i \beta_i, I_{n_i}]$
 $Y_{ij} \mid Z_{ij} \sim I(Y_{ij} = 1) I(Z_{ij} > 0) + L(Y_{ij} = 0) I(Z_{ij} < 0)$

ρ(z, β, θ, Σ (γ) α ρ(γ, z, β, θ, Σ)

Gibbs Sumpling

$$\begin{split} \rho(\beta; |-) & \propto & \prod_{i=1}^{K} \rho(z_{i} | \beta_{i}) \times \prod_{i=1}^{K} \rho(\beta_{i} | \theta_{i} | z_{i}) \\ & \propto & \frac{k}{|I|} e^{-\frac{(z_{i} - K_{i} \beta_{i})^{T} (z_{i} - K_{i} \beta_{i})}{2}} \times \prod_{i=1}^{K} e^{-\frac{(z_{i} - \theta_{i} | z_{i} | z_{i}$$