

Items



$$\beta_i \sim N(\mu_\beta, \tau_\beta^{-1})$$

$$\gamma_i \sim N(\mu_\gamma, \tau_\gamma^{-1}) \quad \lambda_i \sim U[0, 1]$$

Subjects

$$\theta_j \sim N(\mu_\theta, \tau_\theta^{-1})$$

$$\beta_1, \gamma_1, \lambda_1$$

$$\beta_2, \gamma_2, \lambda_2$$

...

$$\beta_n, \gamma_n, \lambda_n$$

θ_1



.....

θ_m



$$p_{ij}(r_{ij} = 1) = \frac{\lambda_i}{1 + e^{-\gamma_i(\theta_j - \beta_i)}}$$

Responses