Graphical models

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R Markdown

$$\mu_\nu \sim \text{Normal}(0, 300)$$
$$\sigma_\nu \sim \text{Uniform}(0, 1000)$$

$$\mu_\tau \sim \text{Uniform}(0, 1000)$$
$$\sigma_\tau \sim \text{Uniform}(0, 1000)$$

$$\mu_\nu \sim \text{Normal}(,)$$
$$\sigma_\nu \sim \text{Uniform}(0, 1000)$$

$$\mu_\nu \sim \text{Normal}(,)$$
$$\sigma_\nu \sim \text{Uniform}(0, 1000)$$

$$\sigma_\delta \sim \text{Uniform}(0, 250)$$
$$\nu_{ij} \sim \text{Normal}(\mu_\nu, \sigma_\nu)$$
$$\delta_{ijk} \sim \text{Normal}(\nu_{ij}, \sigma_\delta)$$

$$\alpha_j \sim \text{Normal}(\mu_\alpha, \sigma_\alpha)$$
$$\beta_j \sim \text{Normal}(\mu_\beta, \sigma_\beta)$$
$$\tau_i \sim \text{Normal}(\mu_\tau, \sigma_\tau)$$

$$Y_{ijk} \sim \text{Wiener}(\alpha_j, \tau_i, \beta_j, \delta_{ijk})$$

$$i^{th} \text{ participant}$$
$$j^{th} \text{ task}$$
$$k^{th} \text{ trial}$$

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$$\nu_{ij} \sim \text{Normal}(\mu_\nu, \sigma_\nu)$$
$$\delta_{ijk} \sim \text{Normal}(\nu_{ij}, \sigma_\delta)$$

$$\tau_i \sim \text{Normal}(\mu_\tau, \sigma_\tau)$$
$$\beta_j \sim \text{Normal}(\mu_\beta, \sigma_\beta)$$

$$Y_{ijk} \sim \text{Wiener}(\alpha, \tau_i, \beta_j, \delta_{ijk})$$

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