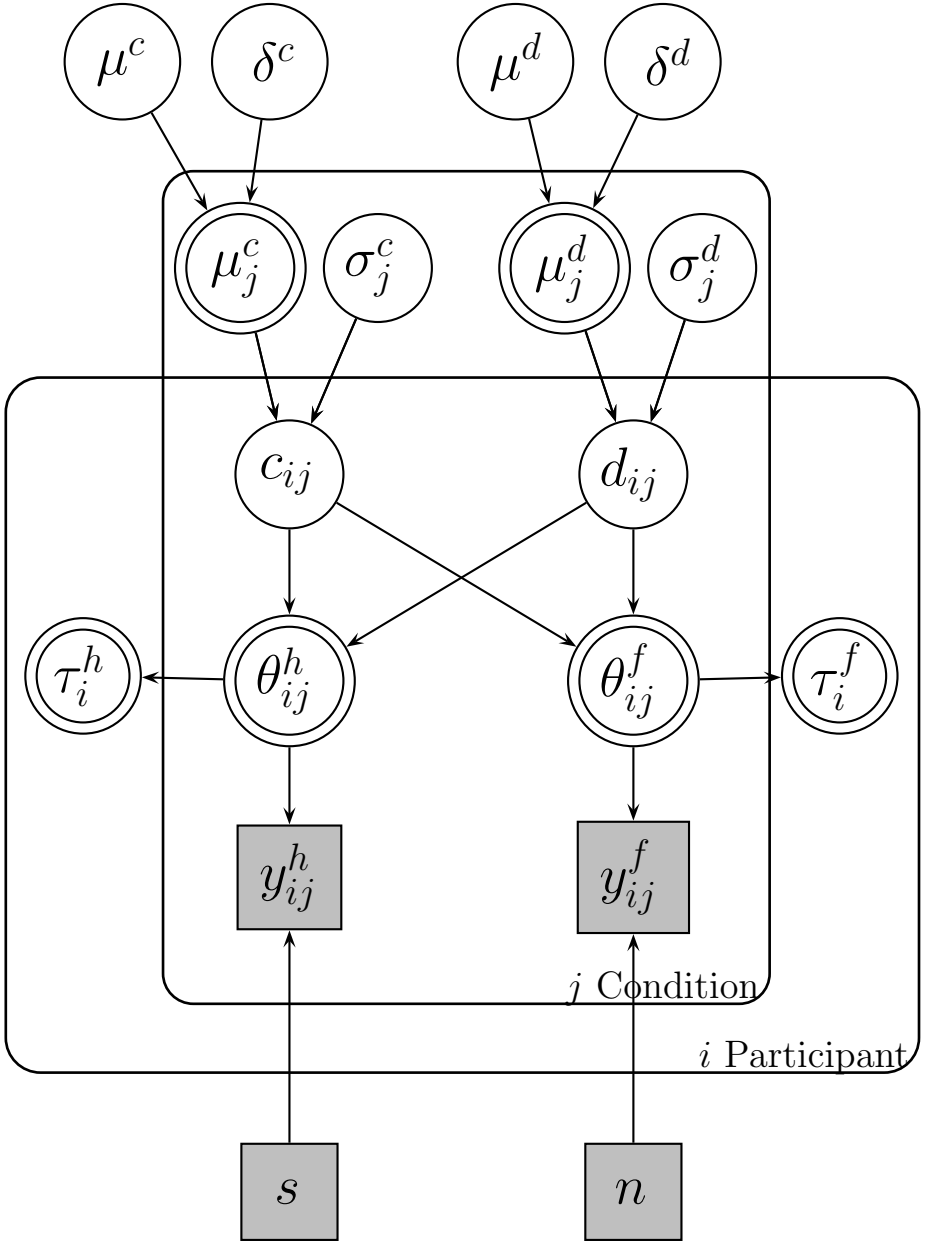

$$y^h_{ij} \sim \text{Binomial}(\theta^h_{ij}, s)$$
$$y^f_{ij} \sim \text{Binomial}(\theta^f_{ij}, s)$$

$$\theta^h_{ij} \leftarrow \phi(\tfrac{1}{2}d_{ij} - c_{ij})$$
$$\theta^f_{ij} \leftarrow \phi(-\tfrac{1}{2}d_{ij} - c_{ij})$$

$$\mu^c \sim \text{Gaussian}(0, 0.7)$$
$$\delta^c \sim \text{Gaussian}(0, 0.3)$$
$$\mu^c_A \leftarrow \mu^c + \frac{\delta^c}{2}$$
$$\mu^c_B \leftarrow \mu^c - \frac{\delta^c}{2}$$

$$\mu^d \sim \text{Gaussian}(0, 1)_{T(0,6)}$$
$$\delta^d \sim \text{Gaussian}(0, 0.7)$$
$$\mu^d_A \leftarrow \mu^c + \frac{\delta^d}{2}$$
$$\mu^d_B \leftarrow \mu^c - \frac{\delta^d}{2}$$

$$\sigma^c_j, \sigma^d_j \sim \text{Uniform}(0, 4)$$

$$d_{ij} \sim \text{Gaussian}(\mu^d_j, \sigma^d_j)$$
$$c_{ij} \sim \text{Gaussian}(\mu^c_j, \sigma^c_j)$$

$$\tau^h_i \leftarrow \theta^h_{iA} - \theta^h_{iB} \qquad \tau^f_i \leftarrow \theta^f_{iB} - \theta^f_{iA}$$