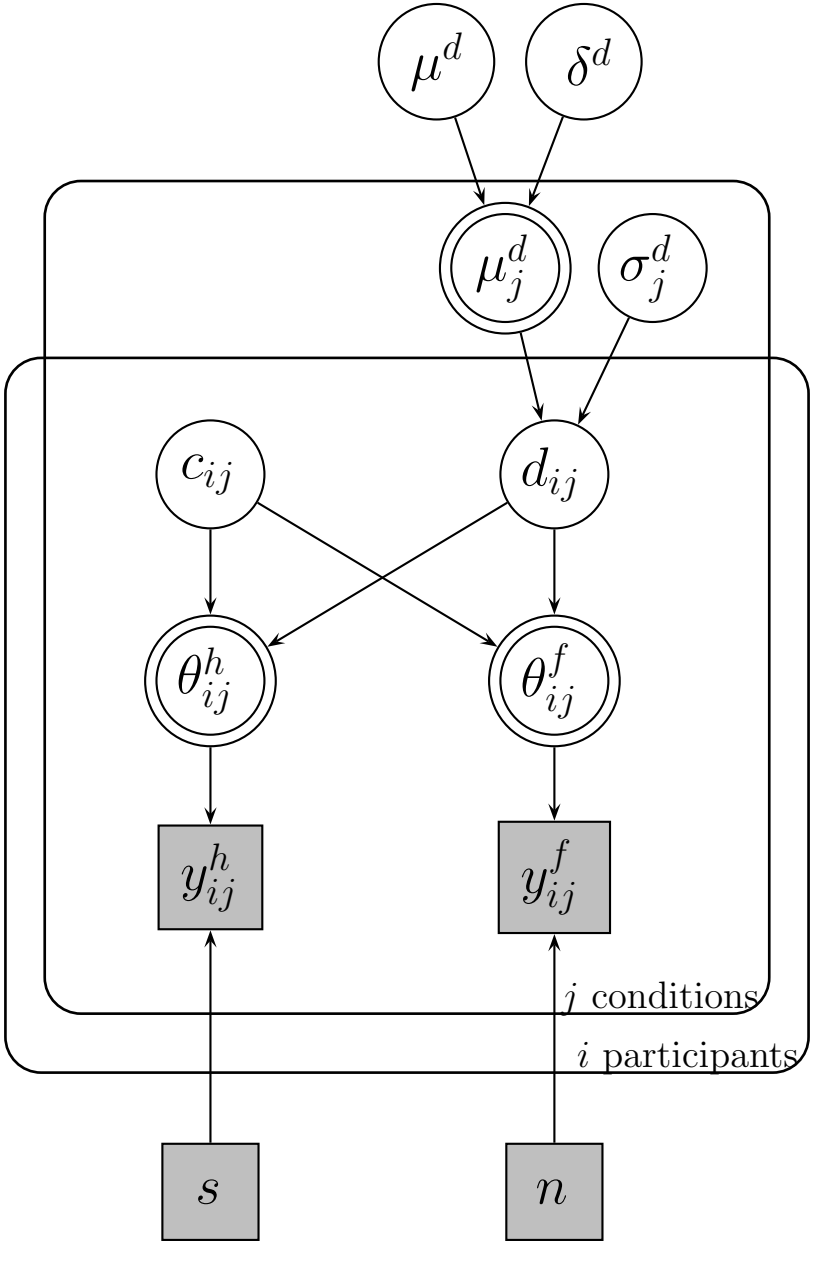

$$\mu^d \sim \text{Gaussian}(0, 1)_{T(0,\infty)}$$

$$\delta^d \sim \text{Gaussian}(0, 1)_{T(0,\infty)}$$

$$\mu^d_A = \mu^d + \tfrac{\delta}{2}$$

$$\mu^d_B = \mu^d - \tfrac{\delta}{2}$$

$$\sigma^d_j \sim \text{Uniform}(0, 5)$$

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

$$c_{ij} \sim \text{Gaussian}(0, 0.7)$$

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

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

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

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