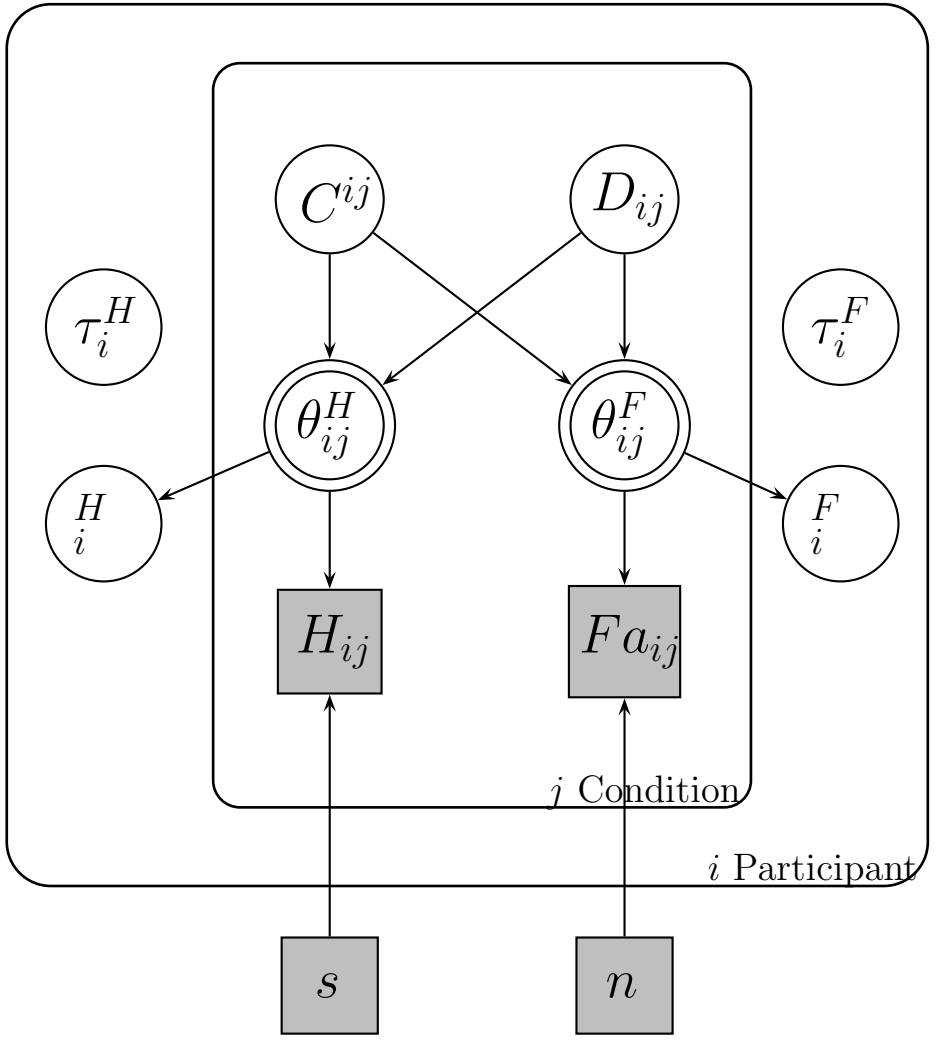

$$H_{ij} \sim \text{Binomial}\big(\theta_{ij}^H, s\big)$$

$$Fa_{ij} \sim \text{Binomial}\big(\theta_{ij}^F, s\big)$$

$$\theta_{ij}^H \leftarrow \phi(\tfrac{1}{2}D_{ij} - C_{ij})$$

$$\theta_{ij}^F \leftarrow \phi(-\tfrac{1}{2}D_{ij} - C_{ij})$$

$$D_{ij} \sim \text{Gaussian}\big(0, 0.5\big)$$

$$C_{ij} \sim \text{Gaussian}\big(0, 2\big)$$

$$\tau_i^H \leftarrow \theta_{i1}^H - \theta_{i2}^H$$

$$\tau_i^F \leftarrow \theta_{i1}^F - \theta_{i1}^F$$