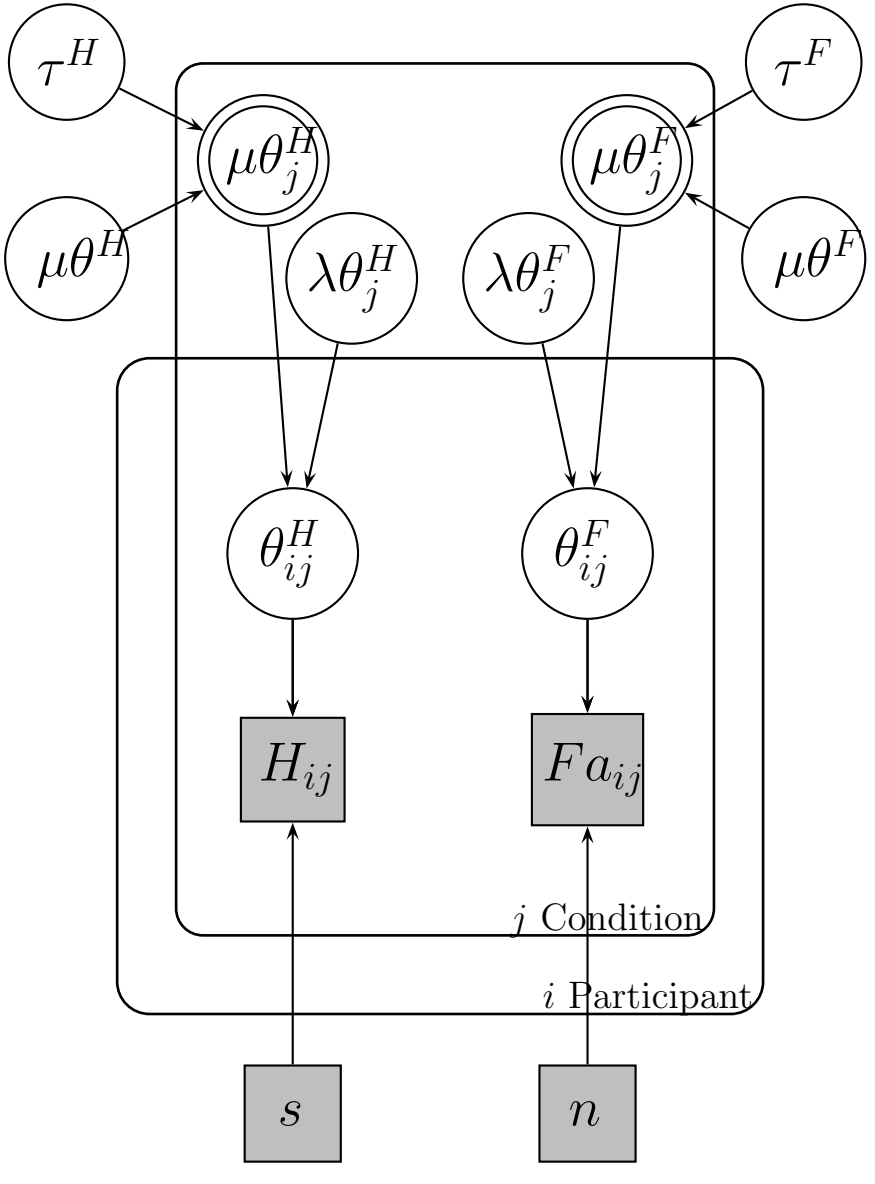

$$\tau_i^H \sim \text{Gaussian}\big(0, 1\big)$$
$$\tau_i^F \sim \text{Gaussian}\big(0, 1\big)$$
$$\mu\theta^H \sim \text{Gaussian}\big(0, 1\big)$$
$$\mu\theta^F \sim \text{Gaussian}\big(0, 1\big)$$

$$\mu\theta_A^H \leftarrow \mu\theta^H + \frac{\tau^H}{2}$$
$$\mu\theta_B^H \leftarrow \mu\theta^H - \frac{\tau^H}{2}$$
$$\mu\theta_A^F \leftarrow \mu\theta^F - \frac{\tau^F}{2}$$
$$\mu\theta_B^F \leftarrow \mu\theta^F + \frac{\tau^F}{2}$$

$$\lambda\theta_j^H \sim \text{Gamma}\big(.001, .001\big)$$
$$\lambda\theta_j^F \sim \text{Gamma}\big(.001, .001\big)$$

$$\theta_{ij}^H \sim \text{Gaussian}(\mu\theta_j^H, \lambda\theta_j^H)$$
$$\theta_{ij}^F \sim \text{Gaussian}(\mu\theta_j^F, \lambda\theta_j^F)$$

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