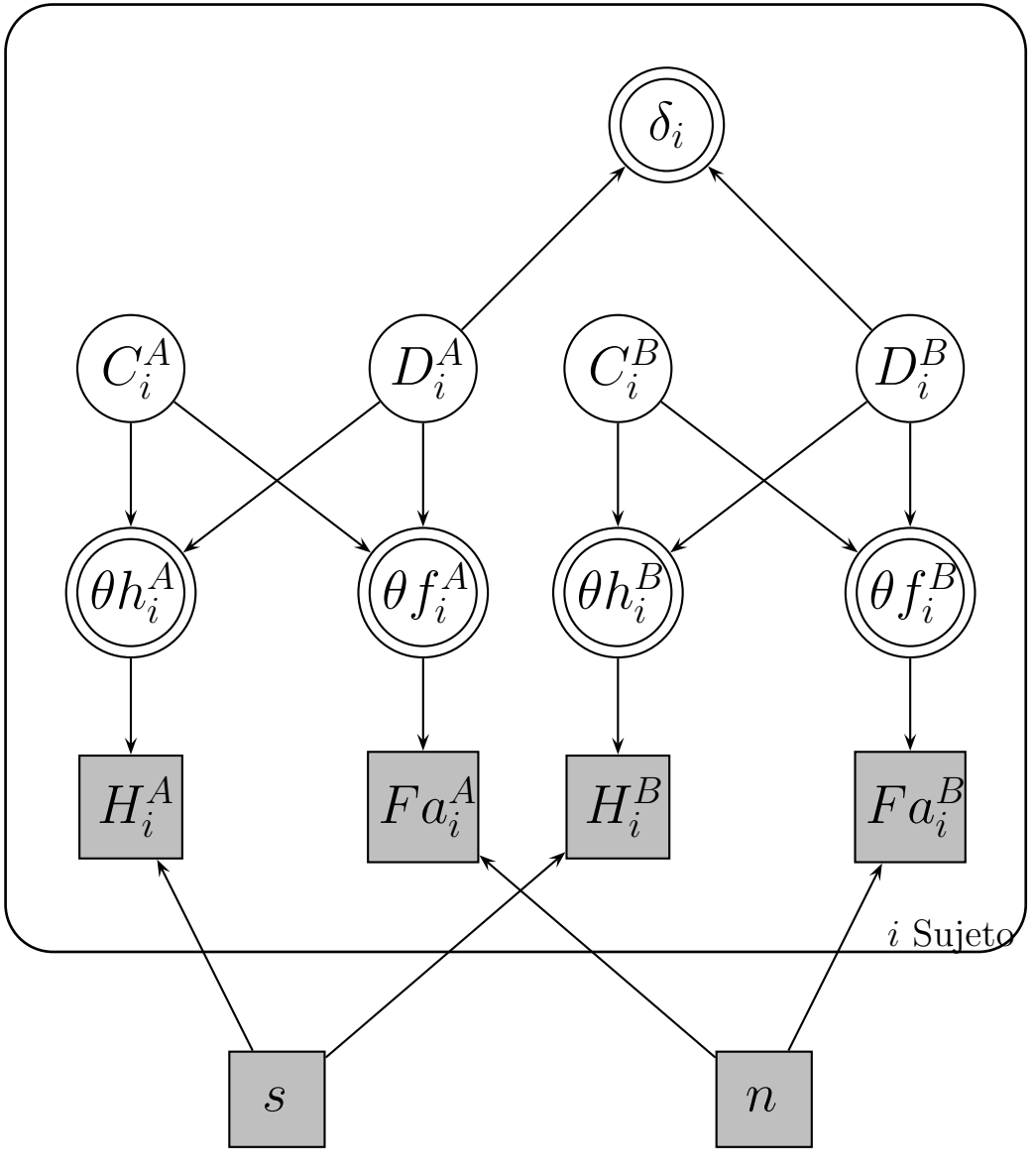

$$H_i^A \sim \text{Binomial}\big(\theta h_i^A, s\big)$$

$$Fa_i^A \sim \text{Binomial}\big(\theta f_i^A, s\big)$$

$$H_i^B \sim \text{Binomial}\big(\theta h_i^B, s\big)$$

$$Fa_i^A \sim \text{Binomial}\big(\theta f_i^B, s\big)$$

$$\theta h_i^A \leftarrow \phi(\tfrac{1}{2} D_i^A - C_i^A)$$

$$\theta f_i^A \leftarrow \phi(-\tfrac{1}{2} D_i^A - C_i^A)$$

$$\theta h_i^B \leftarrow \phi(\tfrac{1}{2} D_i^B - C_i^B)$$

$$\theta f_i^B \leftarrow \phi(-\tfrac{1}{2} D_i^B - C_i^B)$$

$$D_i^A, D_i^B \sim \text{Gaussian}\big(0, 0.5\big)$$

$$C_i^A, C_i^B \sim \text{Gaussian}\big(0, 2\big)$$

$$\delta_i \leftarrow D_i^A - D_i^B$$