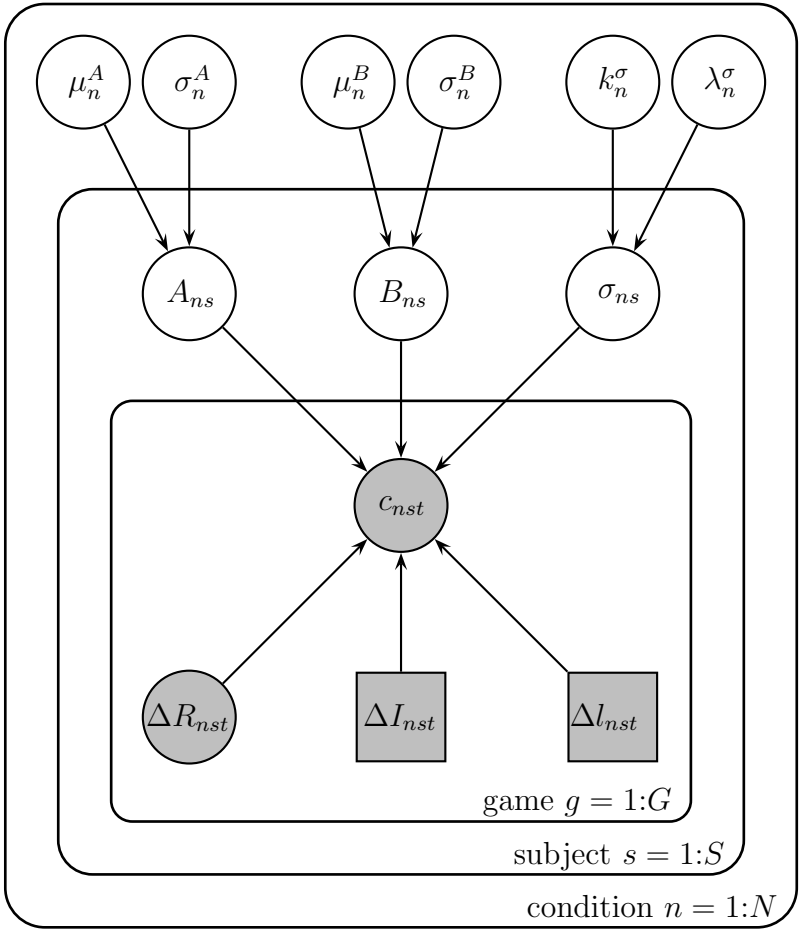

Priors

$\mu_n^A \sim \text{Gaussian}(0, 1000)$

$\sigma_n^A \sim \text{Gamma}(0.001, 0.001)$

$\mu_n^B \sim \text{Gaussian}(0, 1000)$

$\sigma_n^B \sim \text{Gamma}(0.001, 0.001)$

$k_n^\sigma \sim \text{Exponential}(0.001)$

$\lambda_n^\sigma \sim \text{Exponential}(0.001)$

Subject specific parameters

$A_{ns} \sim \text{Gaussian}(\mu_n^A, \sigma_n^A)$

$B_{ns} \sim \text{Gaussian}(\mu_n^B, \sigma_n^B)$

$\sigma_{ns} \sim \text{Gamma}(k_n^\sigma, \lambda_n^\sigma)$

Observed choices

$p_{nst} \leftarrow \left[1 + \exp\left(\frac{\Delta R_{nst} + A_{ns}\Delta I_{nst} + B_{ns}\Delta l_{nst}}{\sigma_{ns}}\right)\right]^{-1}$

$c_{nst} \sim \text{Bernoulli}\,(p_{nst})$