REGULARIZING PRIOR FOR THE ACTOR COEFFICIENT

Outcome: L_i = pulled left

$$\begin{split} L_i \sim Bernoulli(p_i) \\ logit(p_i) &= \alpha_{actor[i]} + \gamma_{block[i]} + \beta_{treatment[i]} \\ \gamma_j \sim Normal(0, \, \sigma_\gamma), \text{for } j = 1..6 \\ \alpha_j \sim Normal(\alpha_0, \, \sigma_\alpha), \text{for } j = 1..7 \end{split}$$

ALL THE MISSING PRIORS TO COMPLETE THE MODEL

$$L_{i} \sim Bernoulli(p_{i})$$

$$logit(p_{i}) = \alpha_{actor[i]} + \gamma_{block[i]} + \beta_{treatment[i]}$$

$$\gamma_{j} \sim Normal(0, \sigma_{\gamma}), \text{ for } j = 1..6$$

$$\alpha_{j} \sim Normal(\alpha_{0}, \sigma_{\alpha}), \text{ for } j = 1..7$$

$$\beta_{j} \sim Normal(0, 0.5), \text{ for } j = 1..4$$

$$\alpha_{0} \sim Normal(0, 1.5)$$

$$\sigma_{\alpha}, \sigma_{\gamma} \sim Exponential(1)$$