ALL THE MISSING PRIORS TO COMPLETE THE MODEL

$$
\begin{aligned}
L_i &\sim Bernoulli(p_i) \\
logit(p_i) &= \alpha_{actor[i]} + \gamma_{block[i]} + \beta_{treatment[i]} \\
\gamma_j &\sim Normal(0,\ \sigma_\gamma), \text{for } j = 1..6 \\
\alpha_j &\sim Normal(\alpha_0,\ \sigma_\alpha), \text{for } j = 1..7 \\
\beta_j &\sim Normal(0,\ 0.5), \text{for } j = 1..4 \\
\alpha_0 &\sim Normal(0,\ 1.5) \\
\sigma_\alpha,\ \sigma_\gamma &\sim Exponential(1)
\end{aligned}
$$

PROSOCIAL CHIMP MODEL CODE

```
## Model
m1 <- ulam(
    alist(
        pulled_left ~ binomial( 1 , p ) ,
        logit(p) <- a[actor] + g[block_id] + b[treatment] ,
        b[treatment] ~ normal( 0 , 0.5 ),
      ## regularizing multi level priors
        a[actor] ~ normal( a_0 , sigma_a ),
        g[block_id] ~ normal( 0 , sigma_g ),
      ## hyper-priors
        a_0 ~ normal( 0 , 1.5 ),
        sigma_a ~ exponential(1),
        sigma_g ~ exponential(1)
    ) , data=dat_list , chains=4 , cores=4 , log_lik=TRUE )
```