

Parameter	Form	Hyperparameters
$\alpha$	truncated normal	$N_{[0,1]}(\alpha_\mu, \alpha_\sigma)$ , $\alpha_\mu = 0.5$ , $\alpha_\sigma = 0.1$
$\mu$	normal	$N(\mu_\mu, \mu_\sigma)$ , $\mu_\mu = -0.4$ , $\mu_\sigma = 0.1^2$
$\sigma^2$	inv-gamma	shape = 0.5, scale = 0.5
$\phi$	lognormal	$\log\phi \sim N(\phi_\mu, \phi_\sigma)$ , $\phi_\mu = -7$ , $\phi_\sigma = 0.2$
$\tau_I^2$	inv-gamma	shape = 0.5, scale = 0.5
$\tau_P^2$	inv-gamma	shape = 0.5, scale = 0.5
$\beta_0$	normal	$N(\beta_{0,\mu}, \beta_{0,\sigma})$ , $\beta_{0,\mu} = 0$ , $\beta_{0,\sigma} = 4 \times 10^{-2}$
$\beta_1$	normal	$N(\beta_{1,\mu}, \beta_{1,\sigma})$ , $\beta_{1,\mu} = 1.14$ , $\beta_{1,\sigma} = 4 \times 10^{-2}$