$$\log(y_i) \sim \text{Normal}(\mu_i, \sigma) \tag{1}$$

$$\log(y_i) \sim \text{Normal}(\mu_i, \sigma) \tag{2}$$

$$\mu_i = \alpha + \beta \log(x_i) \tag{3}$$

$$\alpha \sim \text{Normal}(0, \sigma\_\alpha) \tag{4}$$

$$\beta \sim \text{Normal}(0, \sigma\_\beta) \tag{5}$$

$$\sigma \sim \text{Exponential}(\phi) \tag{6}$$

where $\log(y_i)$ is natural log transformed prey mass and $\log(x_i)$ is natural log transformed predator mass.