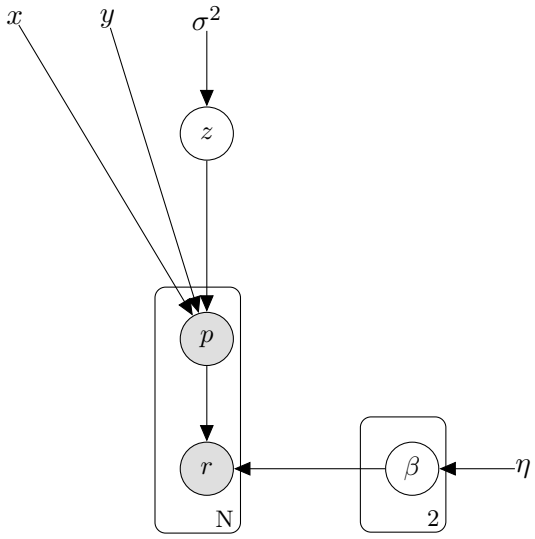

$$z \sim \mathcal{N}((0, \sigma^2) \tag{1}$$

$$p(p = 1) = \frac{1}{1 + \exp(xzy)} \tag{2}$$

$$\beta \sim Beta(\eta) \tag{3}$$

$$r \sim Bern(\beta_p) \tag{4}$$