

linear predictor

intercept

$$\eta_i = \alpha + \sum_{k=1}^{\eta_\beta} \beta_k z_{ki} + \sum_{j=1}^{\eta_f} f^j(u_{ju})$$

linear effects of covariates: $\{\beta_k\}$ on response

set $\{f^j(\cdot)\}$ of random effects on c