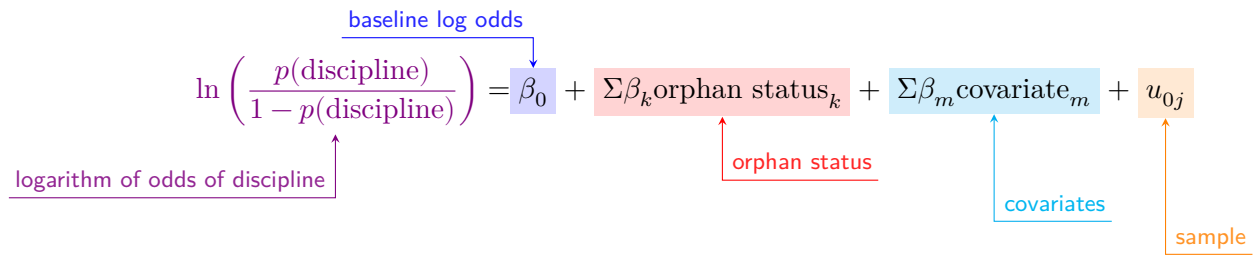


Annotated Equation



The diagram shows a logistic regression equation with four terms. Each term is enclosed in a colored box: a blue box for β_0 , a red box for $\Sigma \beta_k \text{orphan status}_k$, a light blue box for $\Sigma \beta_m \text{covariate}_m$, and an orange box for u_{0j} . Arrows point from descriptive labels to these boxes: a blue arrow from 'baseline log odds' to β_0 , a red arrow from 'orphan status' to the red box, a light blue arrow from 'covariates' to the light blue box, and an orange arrow from 'sample' to u_{0j} . A purple arrow points from 'logarithm of odds of discipline' to the left side of the equation.

$$\ln \left(\frac{p(\text{discipline})}{1 - p(\text{discipline})} \right) = \beta_0 + \Sigma \beta_k \text{orphan status}_k + \Sigma \beta_m \text{covariate}_m + u_{0j}$$

baseline log odds

logarithm of odds of discipline

orphan status

covariates

sample