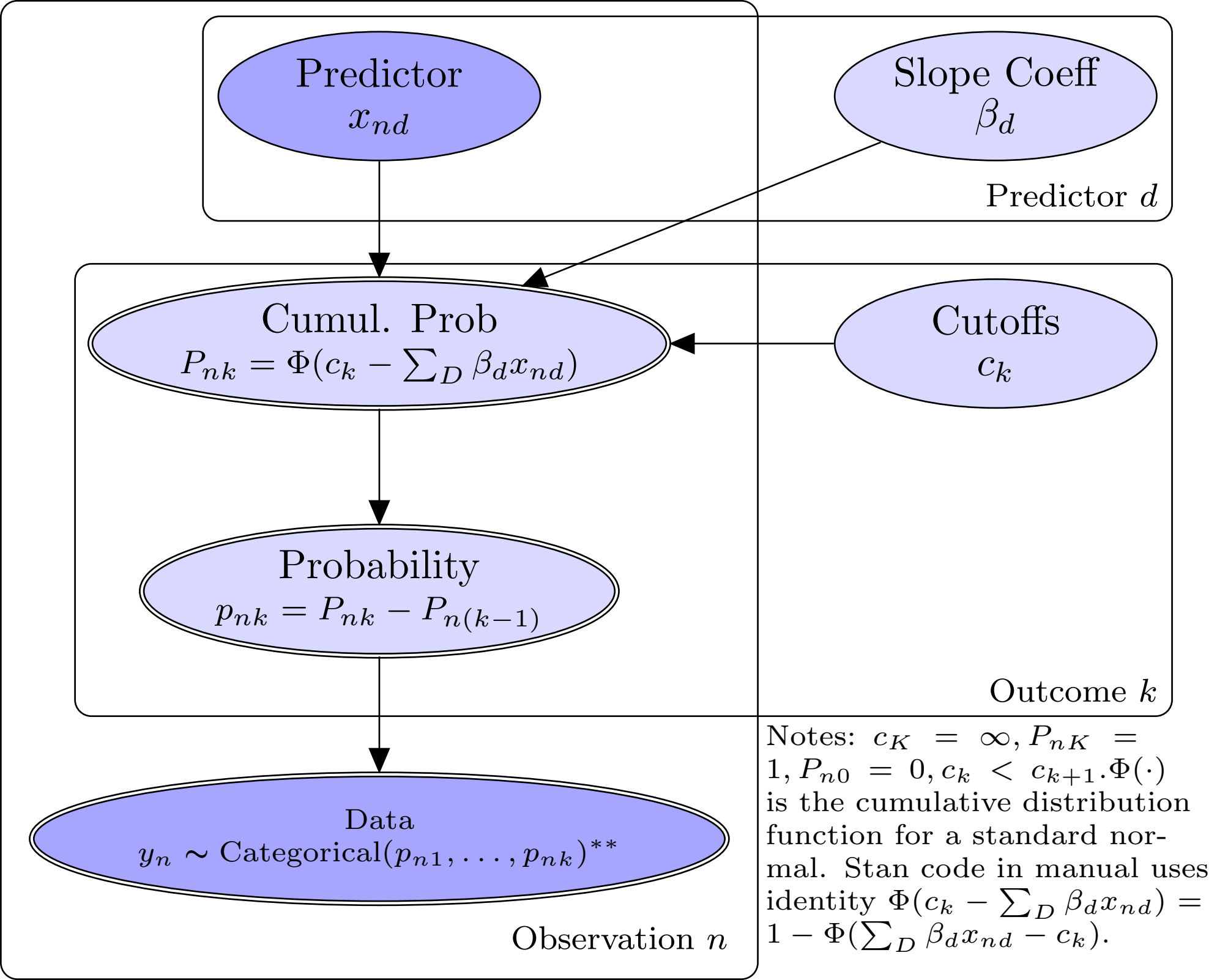
Predictor
x_{nd}
Slope Coeff
β_d
Predictor d
Cumul. Prob
$P_{nk} = \Phi(c_k - \sum_D \beta_d x_{nd})$
Cutoffs
c_k
Probability
$p_{nk} = P_{nk} - P_{n(k-1)}$
Outcome k
Data
$y_n \sim \text{Categorical}(p_{n1}, \ldots, p_{nk})^{**}$
Observation n
Notes: $c_K = \infty, P_{nK} = 1, P_{n0} = 0, c_k < c_{k+1}.\Phi(\cdot)$ is the cumulative distribution function for a standard normal. Stan code in manual uses identity $\Phi(c_k - \sum_D \beta_d x_{nd}) = 1 - \Phi(\sum_D \beta_d x_{nd} - c_k)$.