

control

$$E[V/R]$$

$$y \sim N(\mu, \Sigma)$$

$$P_I | I$$

$P(I)$

$$P(P_i \leq q_{\alpha} | I)$$

$$E[V_I / R_I] \leq \alpha$$

$$P(A|B) = \frac{P(A \cap B)}{P(B)}$$

$$E[V/R] = E[E[V/R | I]]$$

want to still control this. But when the \star of p-values is random.

Check \wedge BY proof so this works.
and modify

$P_I | I$ are ARDS!

Still need to show that

$$E[Q|I] = \sum \sum \frac{1}{k} P((P_i \leq q_{\alpha}) \cap C_n^{(k)} | I)$$

$$\Rightarrow E[Q] = \sum_I \sum \sum \frac{1}{k} P(P_i \leq q_{\alpha} \cap C_n^{(k)} | I) \cdot P(I = I^*)$$