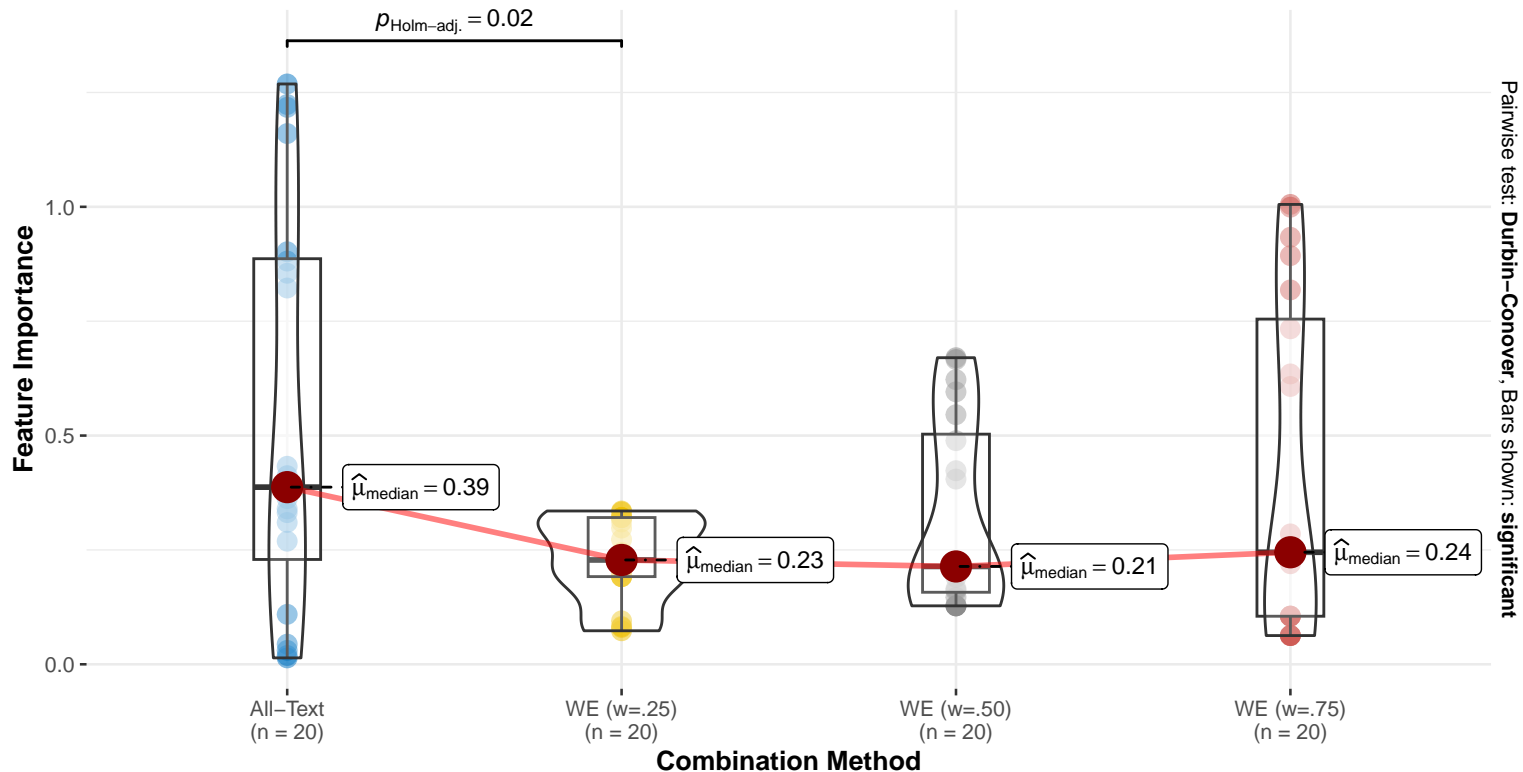# Are the Same Features Always the Most Important?
Feature Importance (SHAP) Compared, by Combination Method

$\chi^2_{\text{Friedman}}(3) = 9.54$, $p = 0.02$, $\widehat{W}_{\text{Kendall}} = 0.16$, $\text{CI}_{95\%}$ [0.03, 1.00], $n_{\text{pairs}} = 20$

$p_{\text{Holm-adj.}} = 0.02$

$\widehat{\mu}_{\text{median}} = 0.39$

$\widehat{\mu}_{\text{median}} = 0.23$

$\widehat{\mu}_{\text{median}} = 0.21$

$\widehat{\mu}_{\text{median}} = 0.24$

Feature Importance (y-axis)

All-Text (n = 20)   WE (w=.25) (n = 20)   WE (w=.50) (n = 20)   WE (w=.75) (n = 20)

Combination Method

Pairwise test: **Durbin-Conover**, Bars shown: **significant**

Dataset: wine *Stack models excluded