

INFFOREST Comparisons With Other Methods

INFFOREST holds its own amongst the other methods described in Chapter 4. The conditional permuted variable importance, when ran on the same random forest, had more difficulty parsing out the situation with paired variables than INFFOREST, only selecting the first two variables to be important. Permuted variable importance does not pick up on the correlation structure within the predictors and deems V_2 and V_6 unimportant.

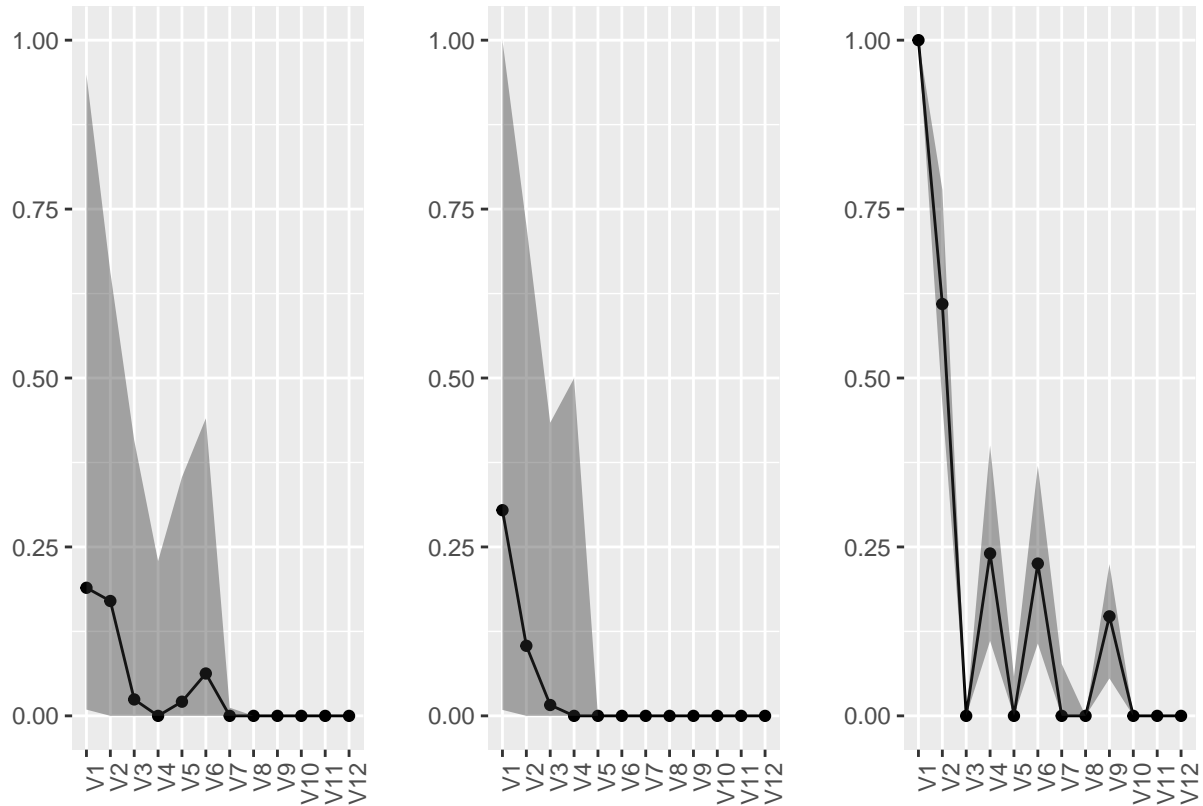


Figure 1: Median Values of INFFOREST, Conditionally Permuted, and Permuted Variable Importance

INFFOREST and conditional permuted variable importance both ignored the unimportant predictors that were not correlated with V_1, V_2, V_3 and V_4 . This is a situation that also occurred in the simulation run in [ref:@strobl2008b](#).