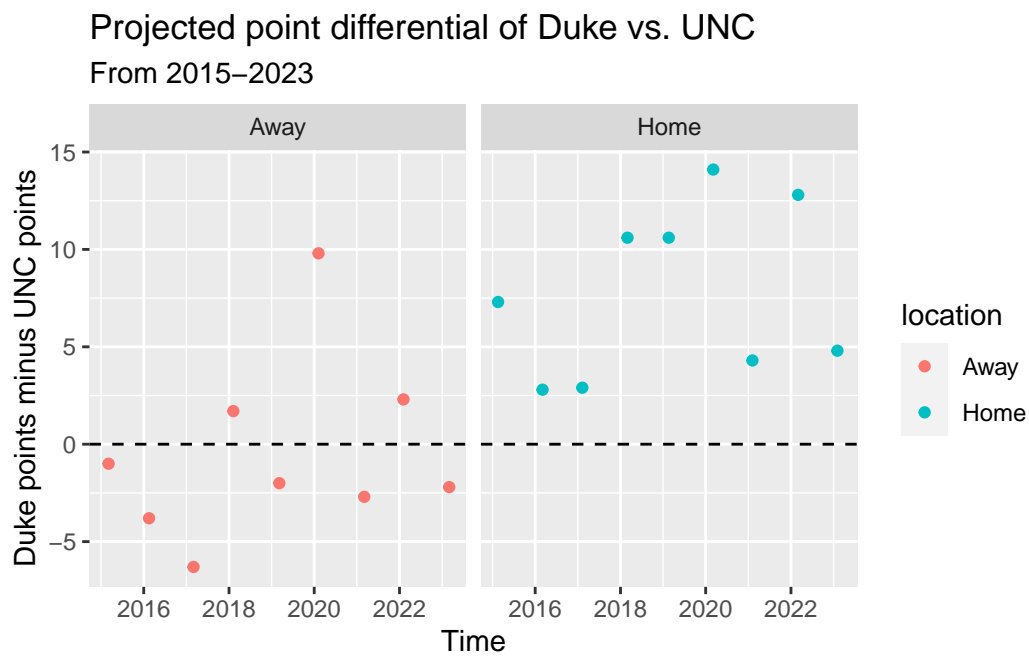


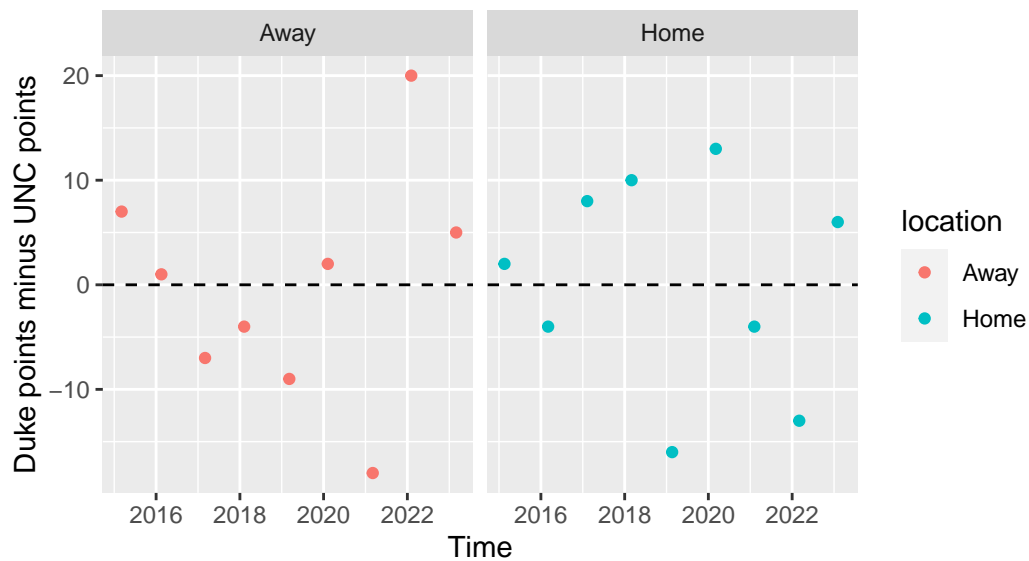
# Predicting Duke vs. UNC Feb. 3, 2023 using modeling

Dom Fenoglio, The Duke Chronicle



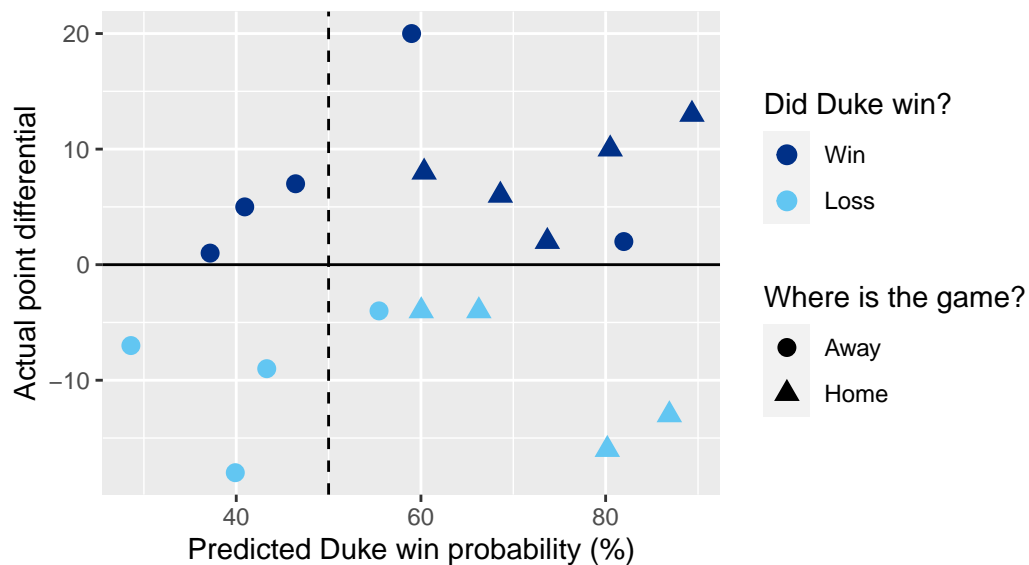
## Actual point differential of Duke vs. UNC

From 2015–2023



## Duke vs. UNC games predicted by Torvik formula

Games from 2015–2023



```
Warning in confusionMatrix.default(data = filtered_predictions$bin_win, :
Levels are not in the same order for reference and data. Refactoring data to
match.
```

## Confusion Matrix and Statistics

	Reference	
Prediction	0	1
0	3	3
1	5	7

Accuracy : 0.5556  
95% CI : (0.3076, 0.7847)  
No Information Rate : 0.5556  
P-Value [Acc > NIR] : 0.5966

Kappa : 0.0769

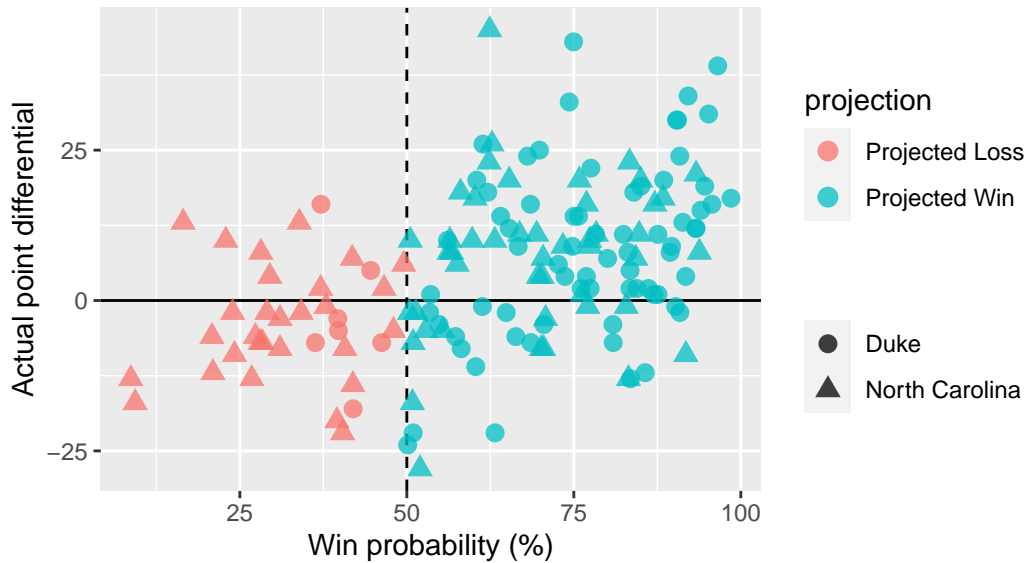
McNemar's Test P-Value : 0.7237

Sensitivity : 0.7000  
Specificity : 0.3750  
Pos Pred Value : 0.5833  
Neg Pred Value : 0.5000  
Prevalence : 0.5556  
Detection Rate : 0.3889  
Detection Prevalence : 0.6667  
Balanced Accuracy : 0.5375

'Positive' Class : 1

## Duke and UNC's ACC wins and losses from 2020–23

Comparing projected win probability to actual point difference



Warning in confusionMatrix.default(data = conf\_mat\_data\_combo\$projection\_bin, :  
Levels are not in the same order for reference and data. Refactoring data to  
match.

### Confusion Matrix and Statistics

	Reference	
Prediction	0	1
0	25	11
1	33	85

Accuracy : 0.7143  
95% CI : (0.636, 0.7841)  
No Information Rate : 0.6234  
P-Value [Acc > NIR] : 0.011316

Kappa : 0.3421

Mcnemar's Test P-Value : 0.001546

Sensitivity : 0.8854  
Specificity : 0.4310

Pos Pred Value : 0.7203  
Neg Pred Value : 0.6944  
Prevalence : 0.6234  
Detection Rate : 0.5519  
Detection Prevalence : 0.7662  
Balanced Accuracy : 0.6582  
  
'Positive' Class : 1