Logistic Regression ROC on Model: Party Change next year ~ Part % + Unemp. % + GDP % Change
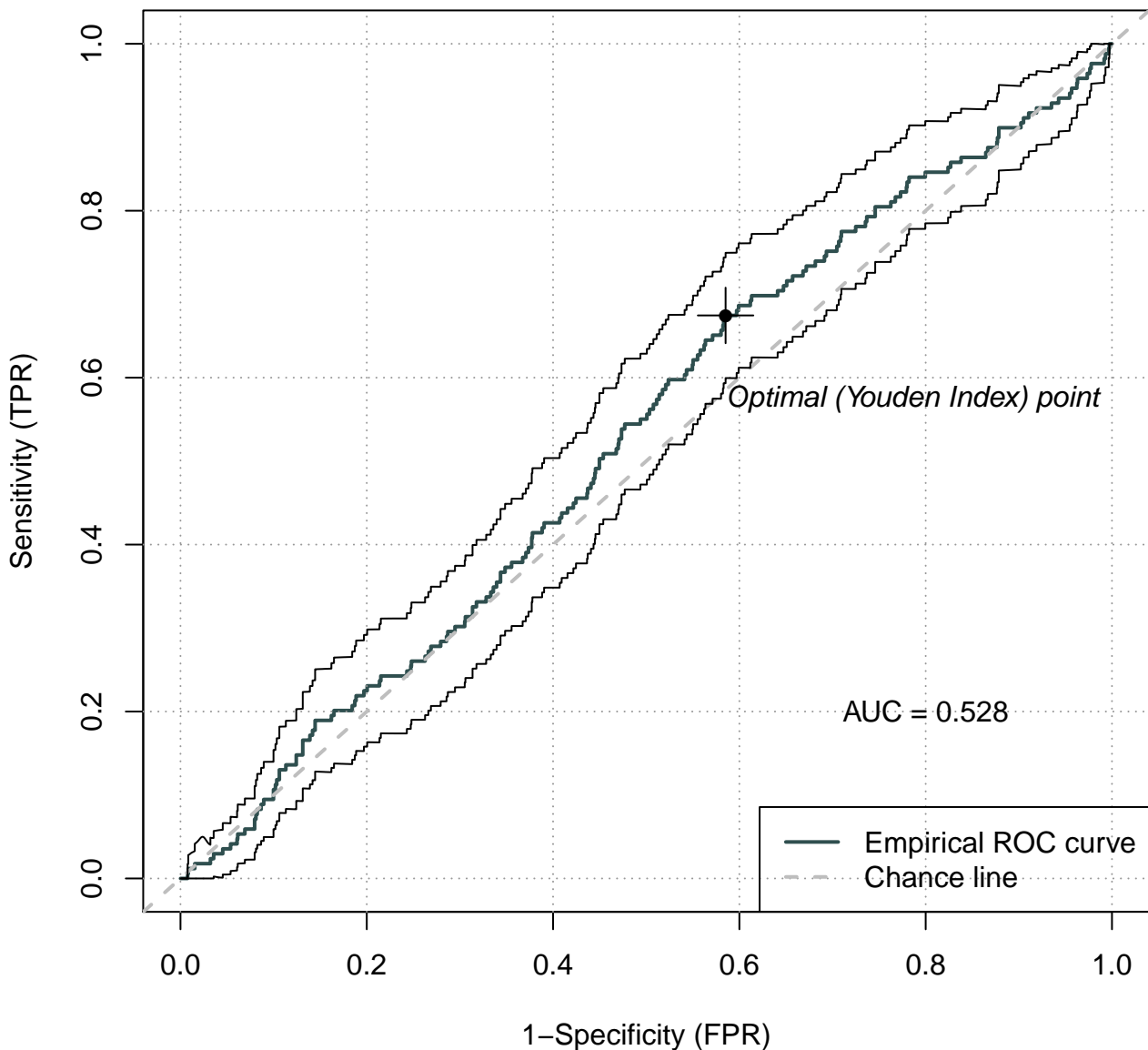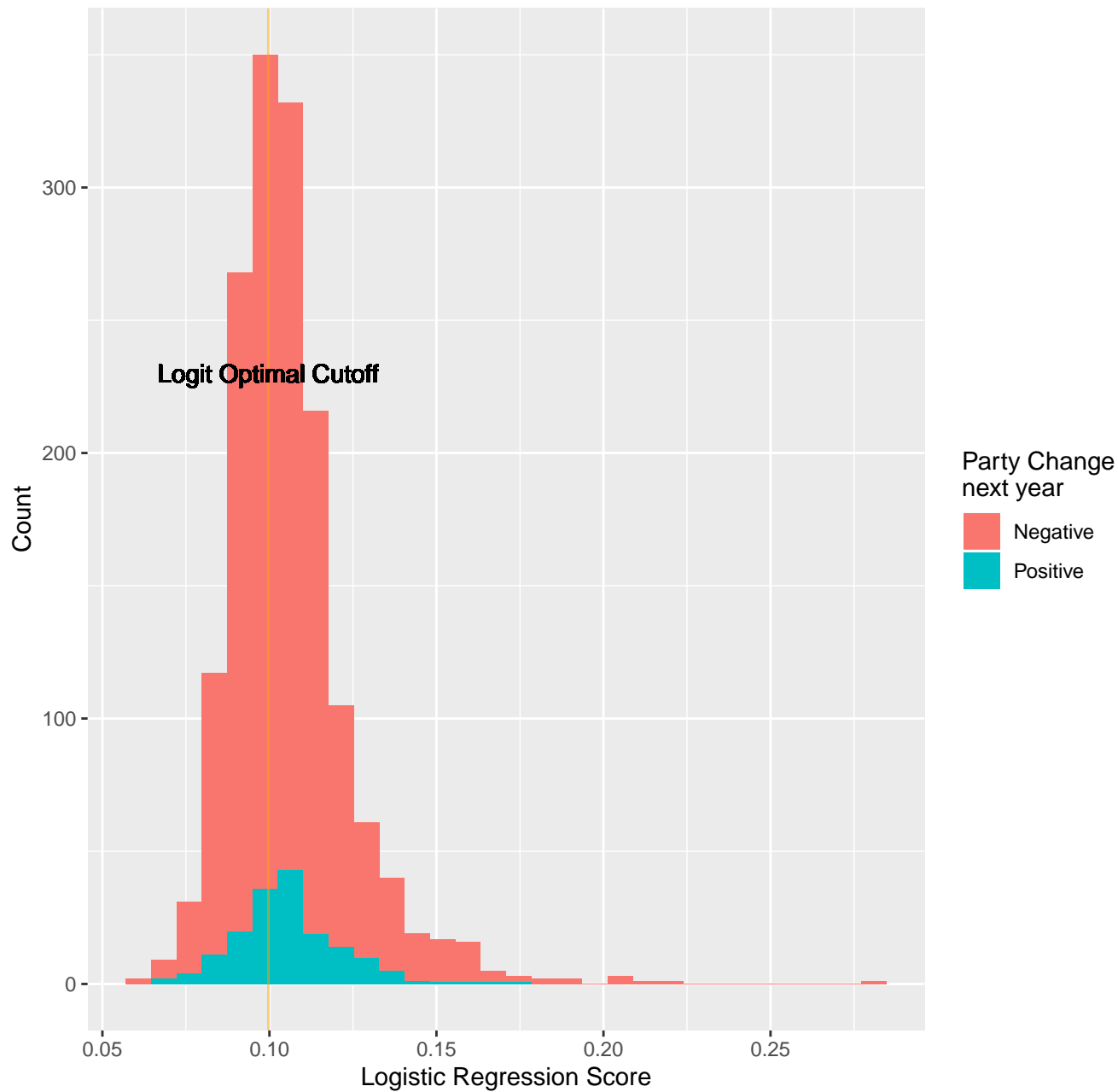
Optimal (Youden Index) point

AUC = 0.528

Empirical ROC curve
Chance line

Sensitivity (TPR)

1−Specificity (FPR)

G: CDF of +ve scores
F: CDF of −ve scores
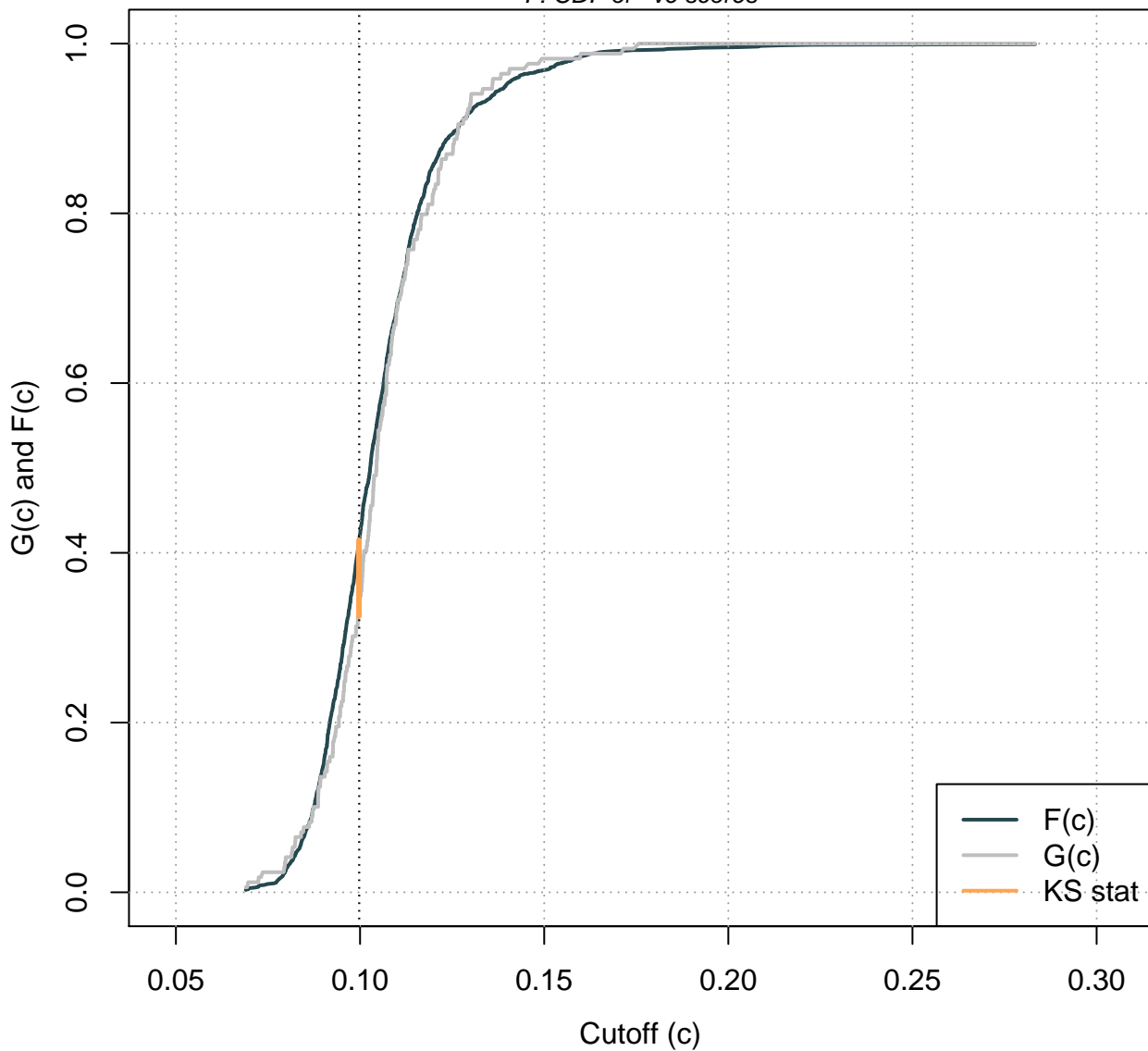
Logistic Regression Scores by +/− Distributions

Logit Optimal Cutoff

Party Change
next year

Negative
Positive

Count

Logistic Regression Score

Random Forest ROC on Model: Party Change next year ~ Part % + Unemp % + GDP % Change

AUC = 0.497

Empirical ROC curve
Chance line

Sensitivity (TPR)

1−Specificity (FPR)

G: CDF of +ve scores
F: CDF of −ve scores

p−value = 0.948

Optimal cutoff = 0.468

F(c)
G(c)
KS stat

G(c) and F(c)

Cutoff (c)
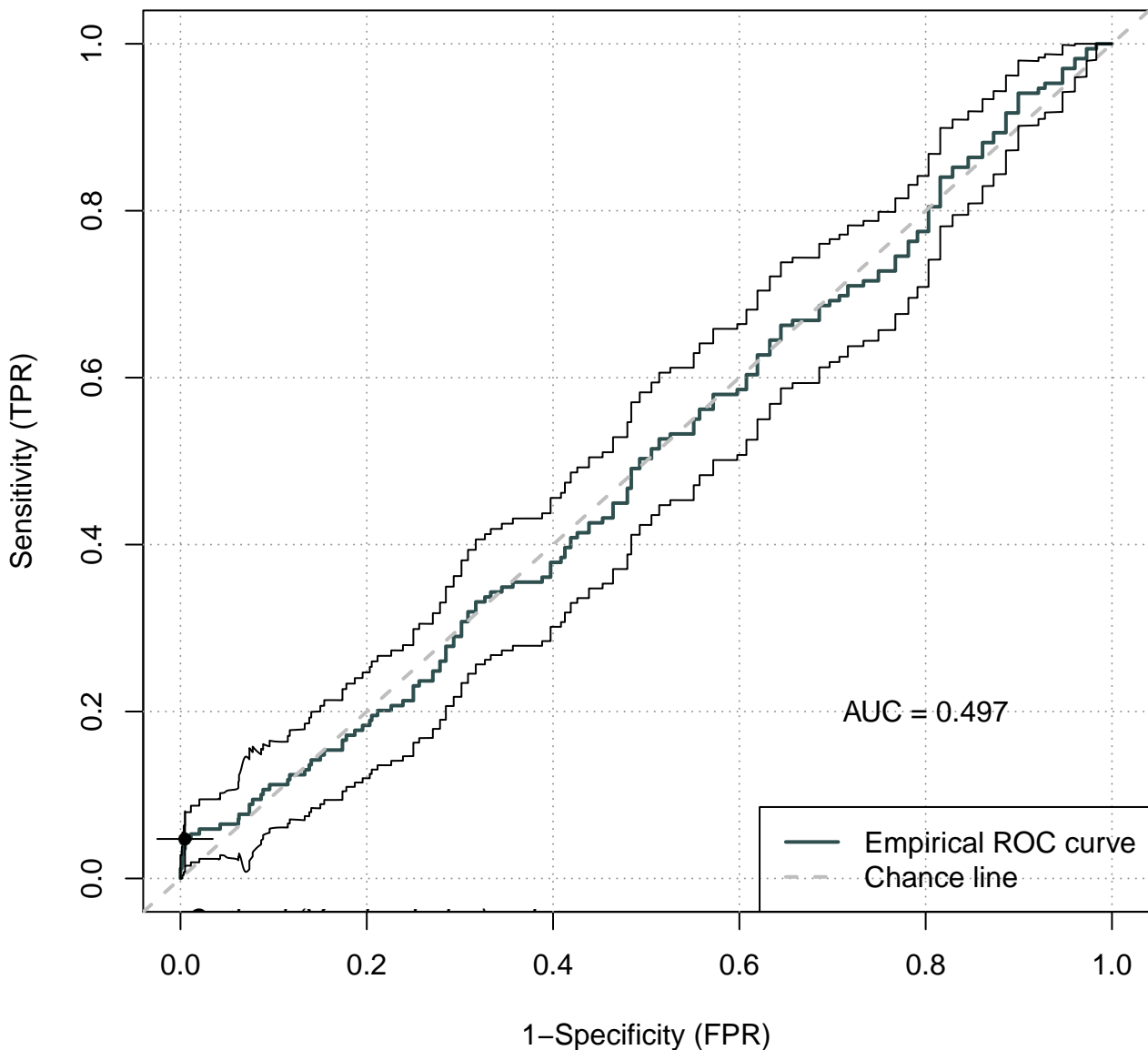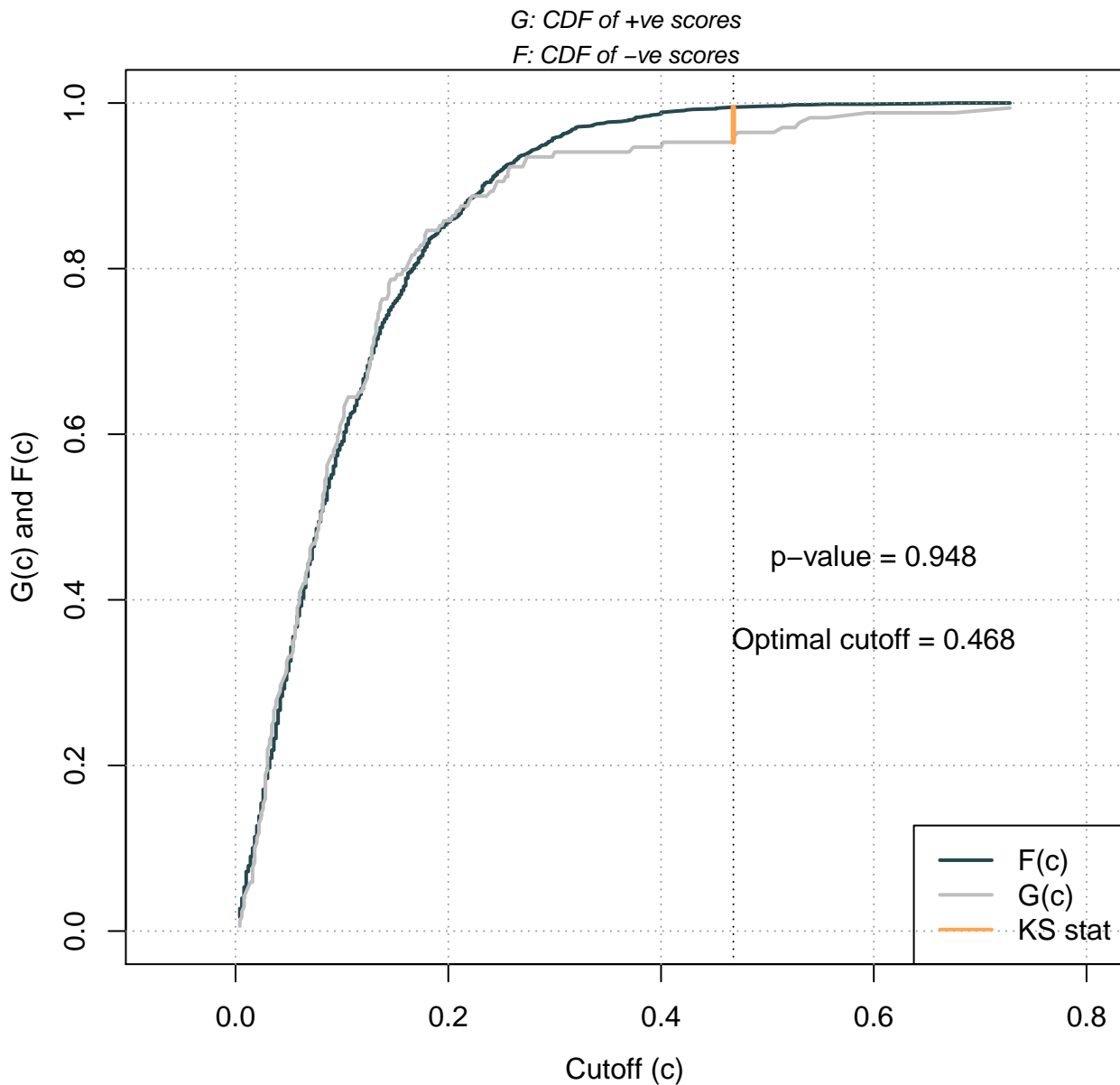
Random Forest Score by +/− Distributions