

# Milestone 5

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*4/3/2020*

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## 1 Overview of Replication Paper

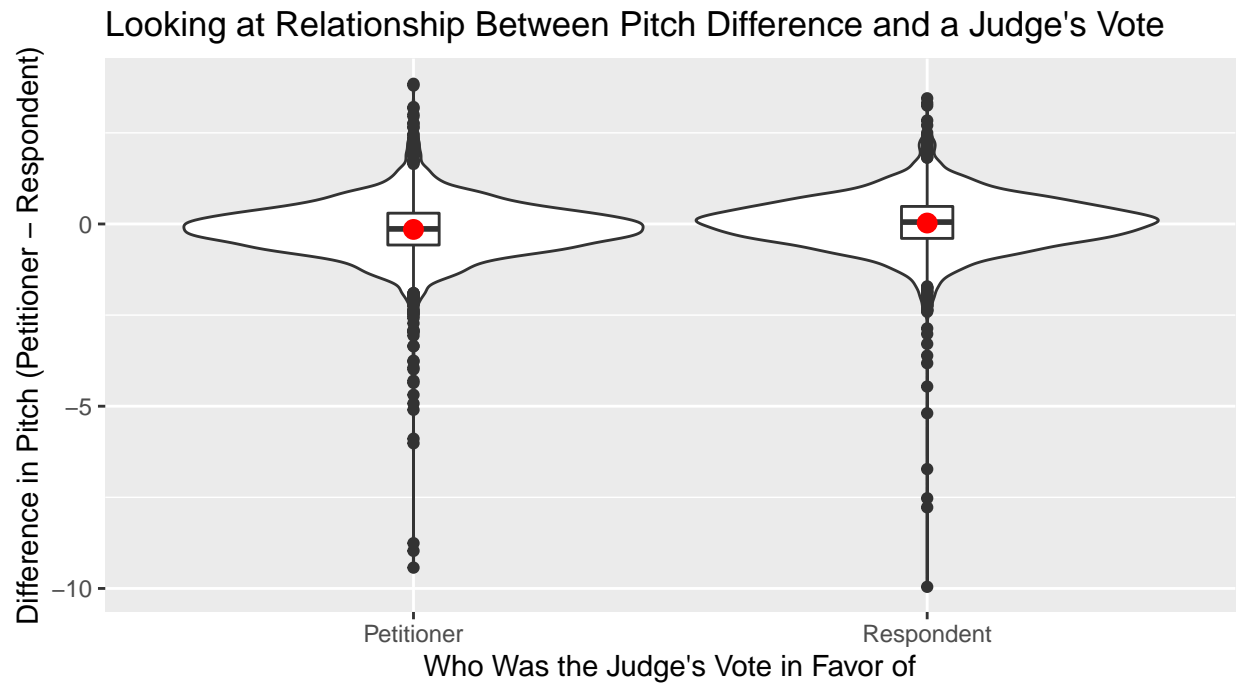
In their paper, “Emotional Arousal Predicts Voting on the U.S. Supreme Court”, Dietrich and colleagues study over 3,000 of hours of Supreme Court audio recordings to try to assess if judges implicitly reveal their leanings during the oral arguments.

This is my 5th milestone of my final project for GOV 1006<sup>1</sup>

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<sup>1</sup>Please refer to the Github repository of my final project for further information., Github repository I make use of Xie (2019) and Wickham (2019)

## 2 Beautiful? Graphic



ee in the boxplot, judges who vote in favor of the petitioner will average have have a more negative difference in pitch (red as the pitch toward the petitioner minus the pitch toward the respondent) compared to judges who vote infavor of the respondent

Data from Dietrich et al. (2011)

## 3 Appendix

```
## Generalized linear mixed model fit by maximum likelihood (Laplace
## Approximation) [glmerMod]
## Family: binomial ( logit )
## Formula: petitioner_vote ~ pitch_diff + (1 | justiceName)
## Data: sc
##
##      AIC      BIC    logLik deviance df.resid
##  7109.4   7129.1  -3551.7   7103.4     5206
##
## Scaled residuals:
##      Min       1Q   Median       3Q      Max
## -4.0233 -1.0556  0.7648  0.9101  1.6206
##
## Random effects:
## Groups      Name      Variance Std.Dev.
## justiceName (Intercept) 0.02598  0.1612
## Number of obs: 5209, groups: justiceName, 18
##
## Fixed effects:
##              Estimate Std. Error z value Pr(>|z|)
```

```
## (Intercept)  0.17811    0.05469    3.256  0.00113 **
## pitch_diff  -0.26596    0.03617   -7.354  1.93e-13 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Correlation of Fixed Effects:
##              (Intr)
## pitch_diff  0.043
```

## 4 References

- Dietrich, Bryce J., Ryan D. Enos, and Maya Sen. “Emotional arousal predicts voting on the US supreme court.” *Political Analysis* 27.2 (2019): 237-243
- Miller, Gerald R., et al. “The effects of videotape testimony in jury trials: Studies on juror decision making, information retention, and emotional arousal.” *BYU L. Rev.* (1975): 331.
- Oliver, Edward, and William Griffitt. “Emotional arousal and ‘objective’ judgment.” *Bulletin of the Psychonomic Society* 8.5 (1976): 399-400
- Wickham, Hadley. 2019. *Stringr: Simple, Consistent Wrappers for Common String Operations*. <https://CRAN.R-project.org/package=stringr>.
- Xie, Yihui. 2019. *Knitr: A General-Purpose Package for Dynamic Report Generation in R*. <https://CRAN.R-project.org/package=knitr>.