



# Analysis of Georgia 2022 Vote Mode Composition

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## Introduction:

On November 8th, 2022, the state of Georgia voted for one U.S. Senate seat in the General Election. In preparation of the December 6th Special Runoff Election for the seat, I compare how Georgia voters voted in 2022 and 2020 General Elections. The results may help explain the relationship between General Election vote mode and candidate performance in the Special Runoff.

## Methods:

- Loaded precinct-level 2022 and 2020 Georgia election results into R Studio.
- Used Dplyr package to create summary statistics by computing the proportions of each candidate's votes by mode.
- Produced charts in R Studio using ggplot2

## Results:

Figure 1 (2022):

- Warnock had 7.7% more of his votes cast early in person and 2.9% more of his votes cast by mail than Walker.
- Walker had ~10.7% more of his votes cast in person on election day than Warnock.

Figure 2 (2020):

- Kelly Loeffler had ~7% more of her votes cast early in person and ~10.7% more of her votes cast in person on election day than Warnock.
- Warnock had ~17.7% more of his votes cast early by mail than Loeffler

Figure 1: 2022 General Election Vote Mode Shares

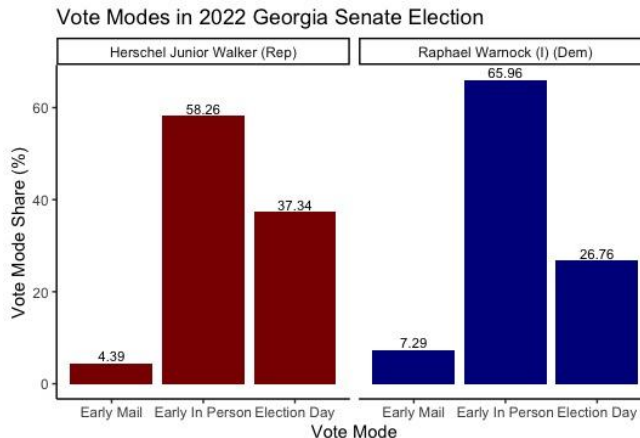
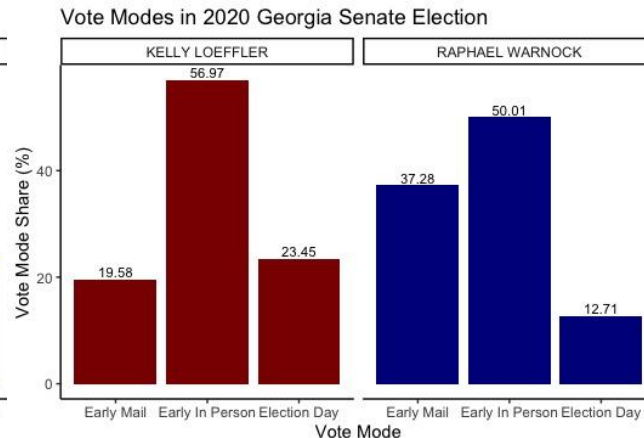


Figure 2: 2020 General Election Vote Mode Shares



\*Note: Both figures display General Election results, not Special Runoffs

## Important Takeaways

- Voting by mail in the 2022 General Election accounted for a much smaller proportion of candidate's votes than in 2020.
- Voters of both parties shifted towards early in person and election day voting.
- Despite Loeffler obtaining more of her votes early in person against Warnock, Warnock won the 2020 Special Runoff Election
- Warnock gaining more of his votes early in person does not guarantee a Special Runoff win
- Avenue for further research:* Incorporate additional covariates (gender, race, etc.) into Machine Learning model(s) to predict vote mode shares for Special Runoff election..