

Statistical Analysis

Rockland County, NY

■ Comparison of the difference between the 2020 and 2024 election results in four towns in Rockland County, New York

- Clarkstown
- Haverstraw
- Orangetown
- Stony Point

The analysis concludes that the 2024 Democratic presidential candidate's election results are highly unlikely in all four towns, when compared to the 2020 election results. The p-Value = 0.0000

The analysis compares the drop-off of votes between the presidential and down-ballot votes in each party for 2 elections.

- **High drop-off rate** - the presidential candidate far out-performed the down-ballot candidate of the same party.
- **Low drop-off rate** - the presidential candidate somewhat out-performed the down-ballot candidate of the same party.
- **Negative drop-off rate** - the presidential candidate got fewer votes than the down-ballot candidate of the same party.

by Max Bonamente, Ph.D. Professor of physics and astronomy, University of Alabama in Huntsville
Ph.D. degree in Physics, University of Alabama in Huntsville (UAH), 2000, MS degree in Physics, UAH, 1999.
Laurea degree in Electronic Engineering, minor in Astrophysics, Università di Perugia, 1996

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Statistical Analysis

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- **“These data would require extreme sociological or political causes for their explanation, and would benefit from further assurances as to their fidelity.”**

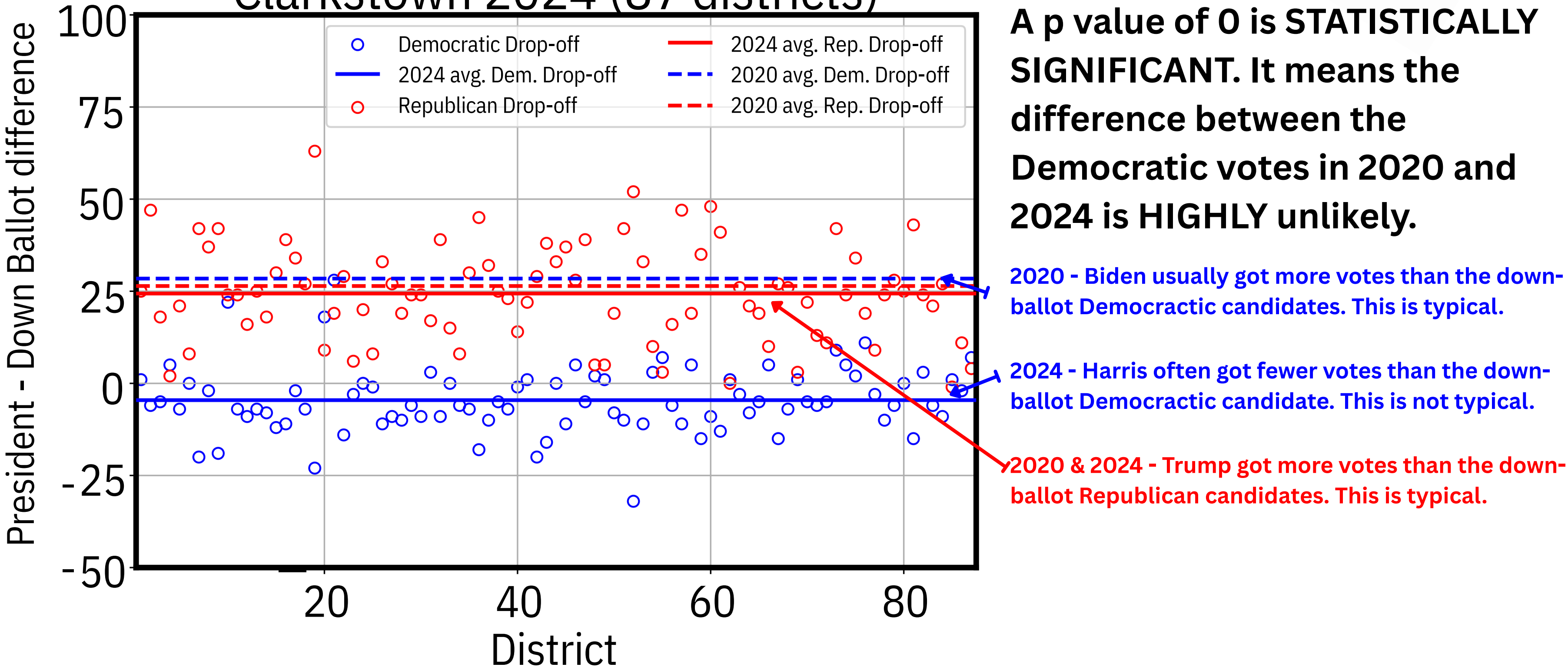
 **Max Bonamente, Ph.D.**

Rep. 2020 to 2024 Drop-off difference: z-score= -0.732 p-Value=0.2321

Dem. 2020 to 2024 Drop-off difference: z-score= -13.715 p-Value=0.0000

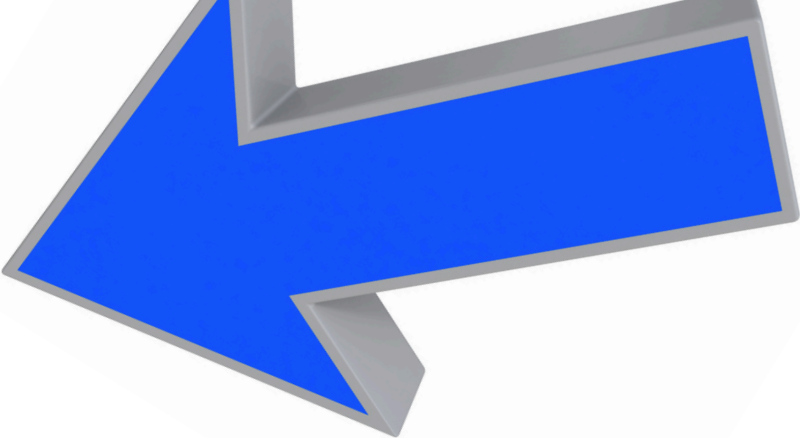


Clarkstown 2024 (87 districts)

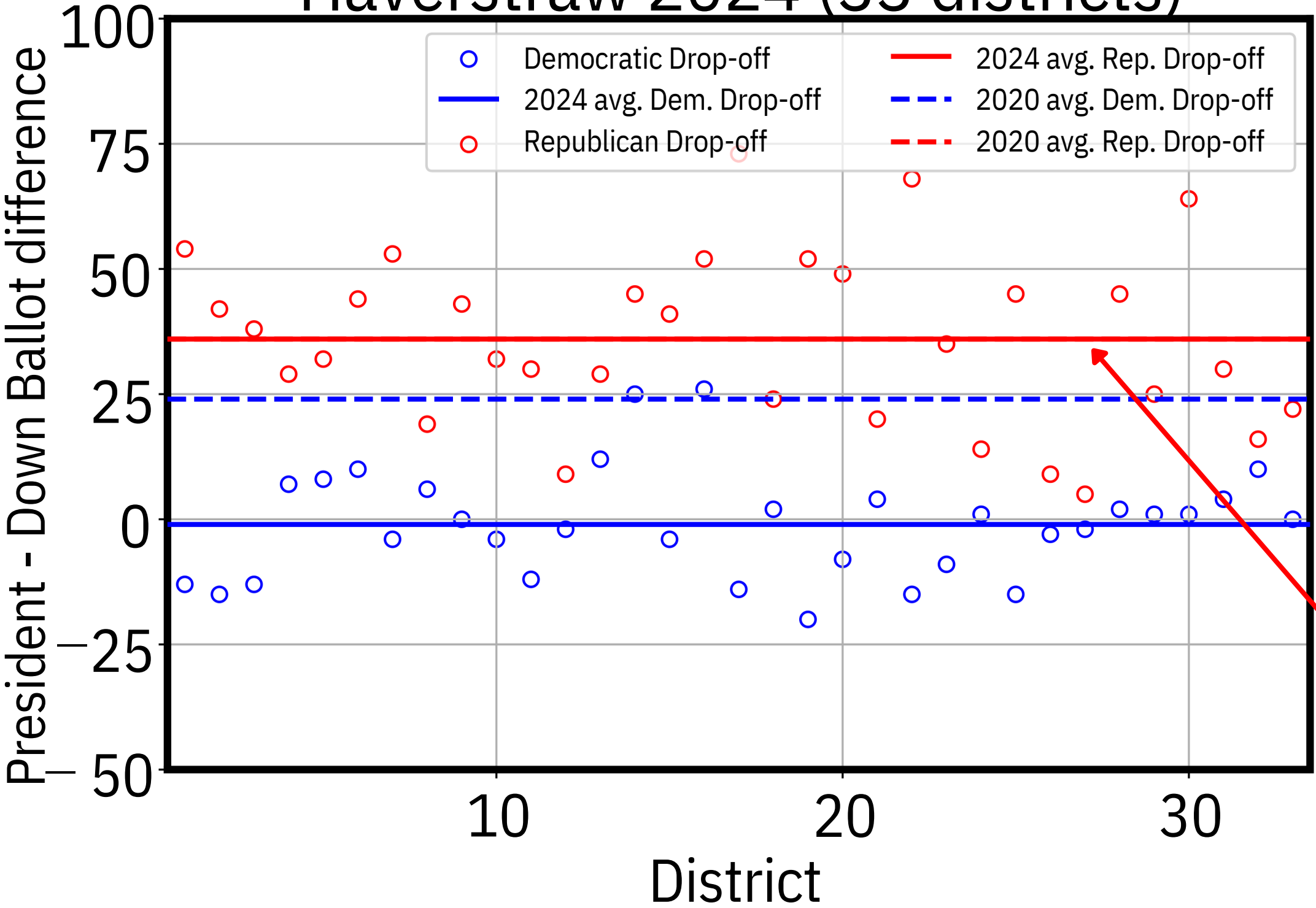


Rep. 2020 to 2024 Drop-off difference: z-score=0.000 p-Value=0.5000

Dem. 2020 to 2024 Drop-off difference: z-score=-5.841 p-Value=0.0000



Haverstraw 2024 (33 districts)



A p value of 0 is **STATISTICALLY SIGNIFICANT**. It means the difference between the Democratic votes in 2020 and 2024 is **HIGHLY** unlikely.

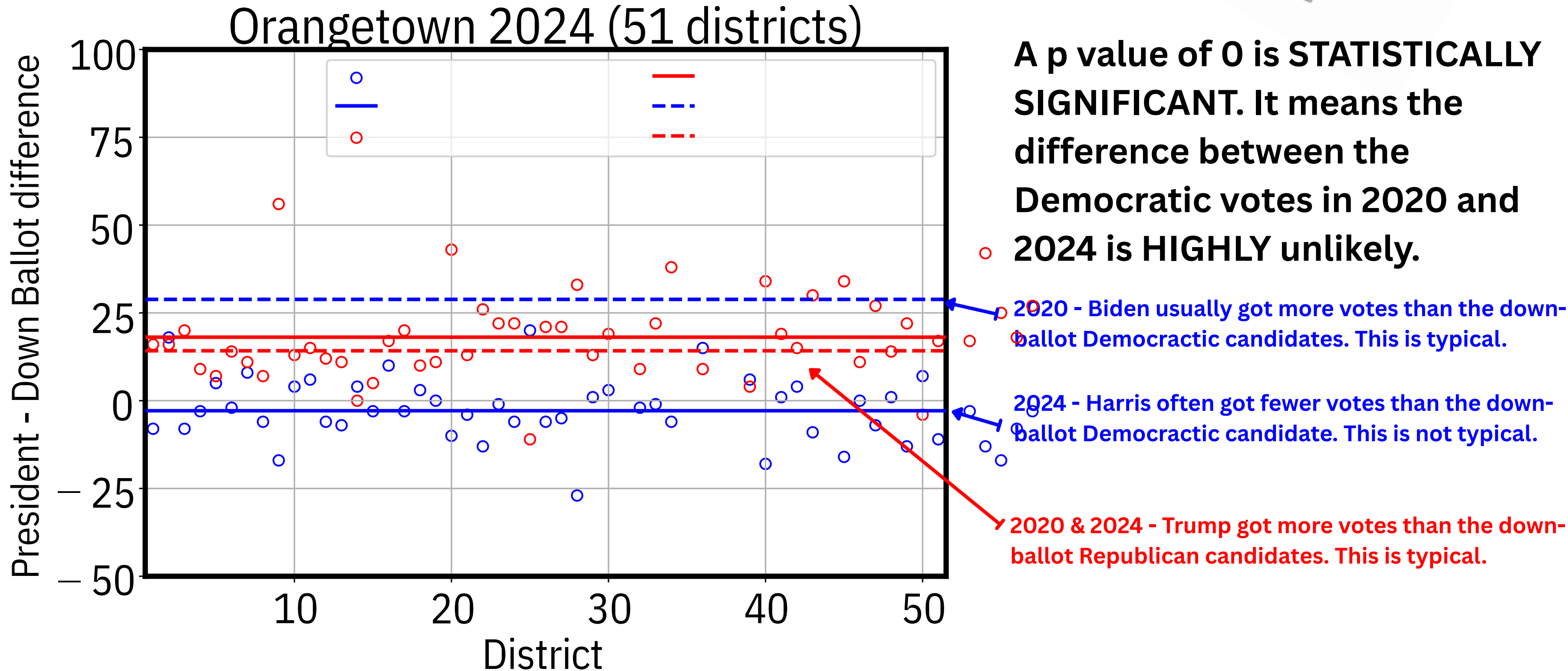
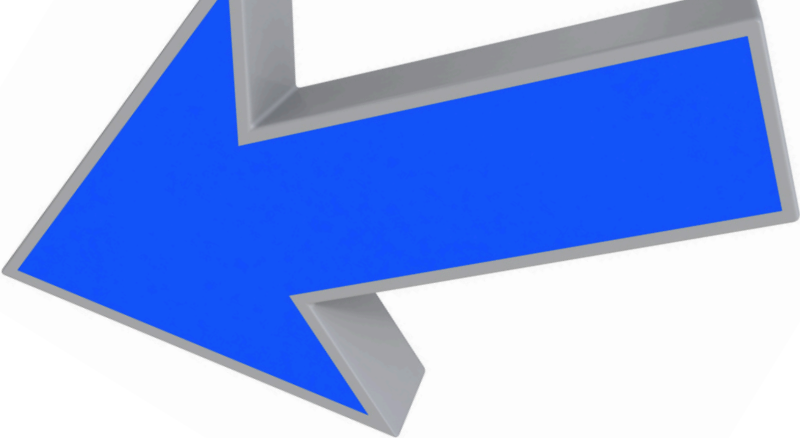
2020 - Biden usually got more votes than the down-ballot Democratic candidates. This is typical.

2024 - Harris often got fewer votes than the down-ballot Democratic candidate. This is not typical.

2020 & 2024 - Trump got more votes than the down-ballot Republican candidates. This is typical.

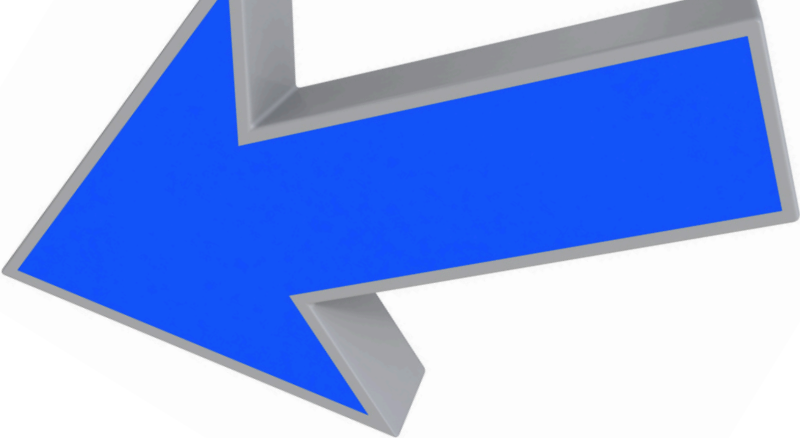
Rep. 2020 to 2024 Drop-off difference: z-score=1.431 p-Value=0.0763

Dem. 2020 to 2024 Drop-off difference: z-score=-10.176 p-Value=0.0000

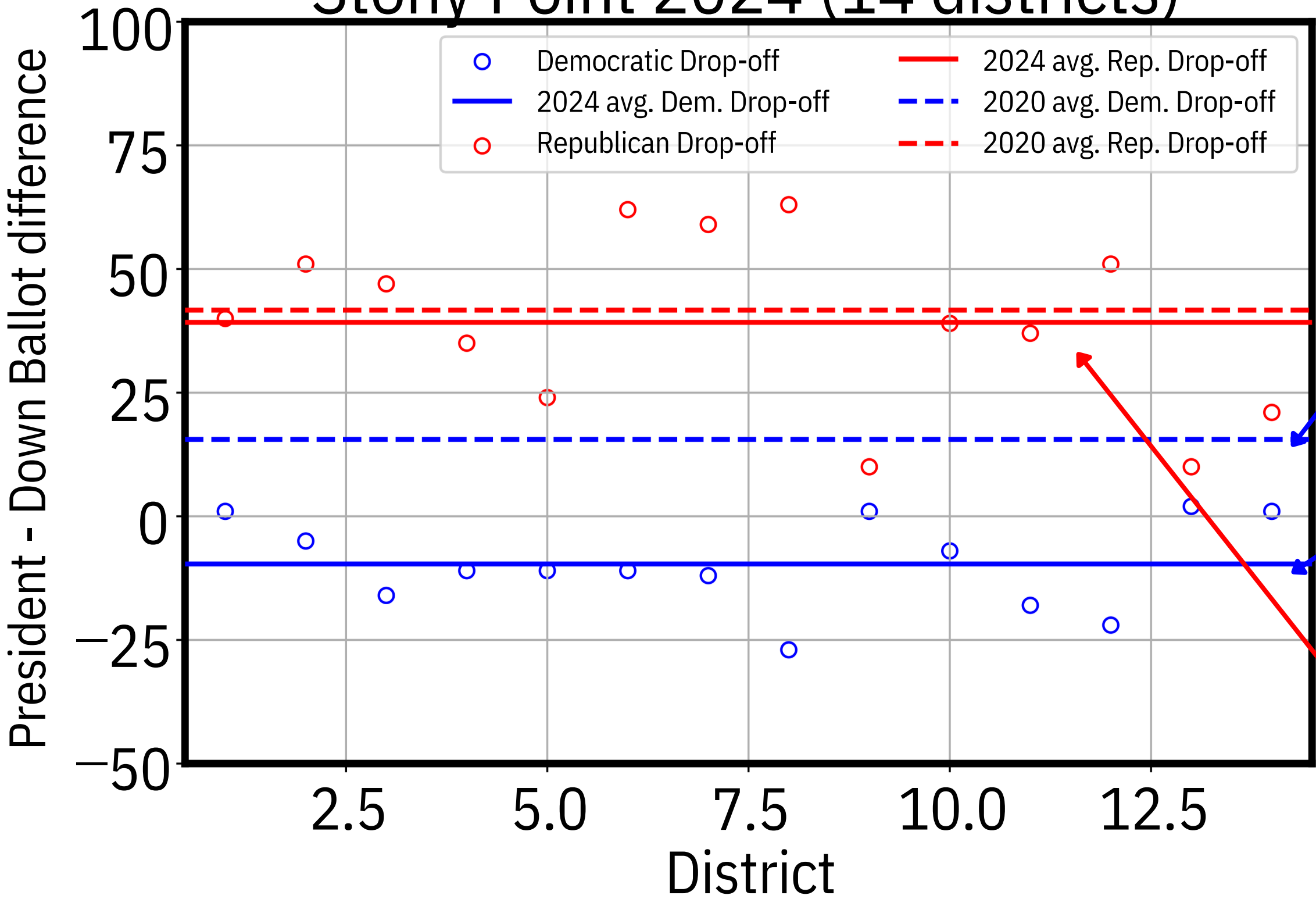


Rep. 2020 to 2024 Drop-off difference: z-score=-0.399 p-Value=0.3449

Dem. 2020 to 2024 Drop-off difference: z-score=-8.163 p-Value=0.0000



Stony Point 2024 (14 districts)



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