

# Party Heterogeneity

## Variation in the Variance Across Space and Time\*

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### Abstract

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Start the introduction here...

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## See LaTeX at Work

Below, I use LaTeX syntax to automatically include references, create mathematical equations, include and reference the figure.

Shor and McCarty (2011) and Shor, Berry, and McCarty (2010) develop the statistical theory to estimate the ideology of state legislators along a single left-right dimension. Using data from Shor (2018), I calculate the standard deviation of the legislators' ideologies for each state-party-year. Figure 1 shows these standard deviations, calculated as  $\sqrt{\frac{1}{N-1} \sum_{i=1}^N (x_i - \bar{x})^2}$ , where  $i$  indexes the legislators in each state-party-year and  $N$  represents the total number of legislators in the state-party-year.

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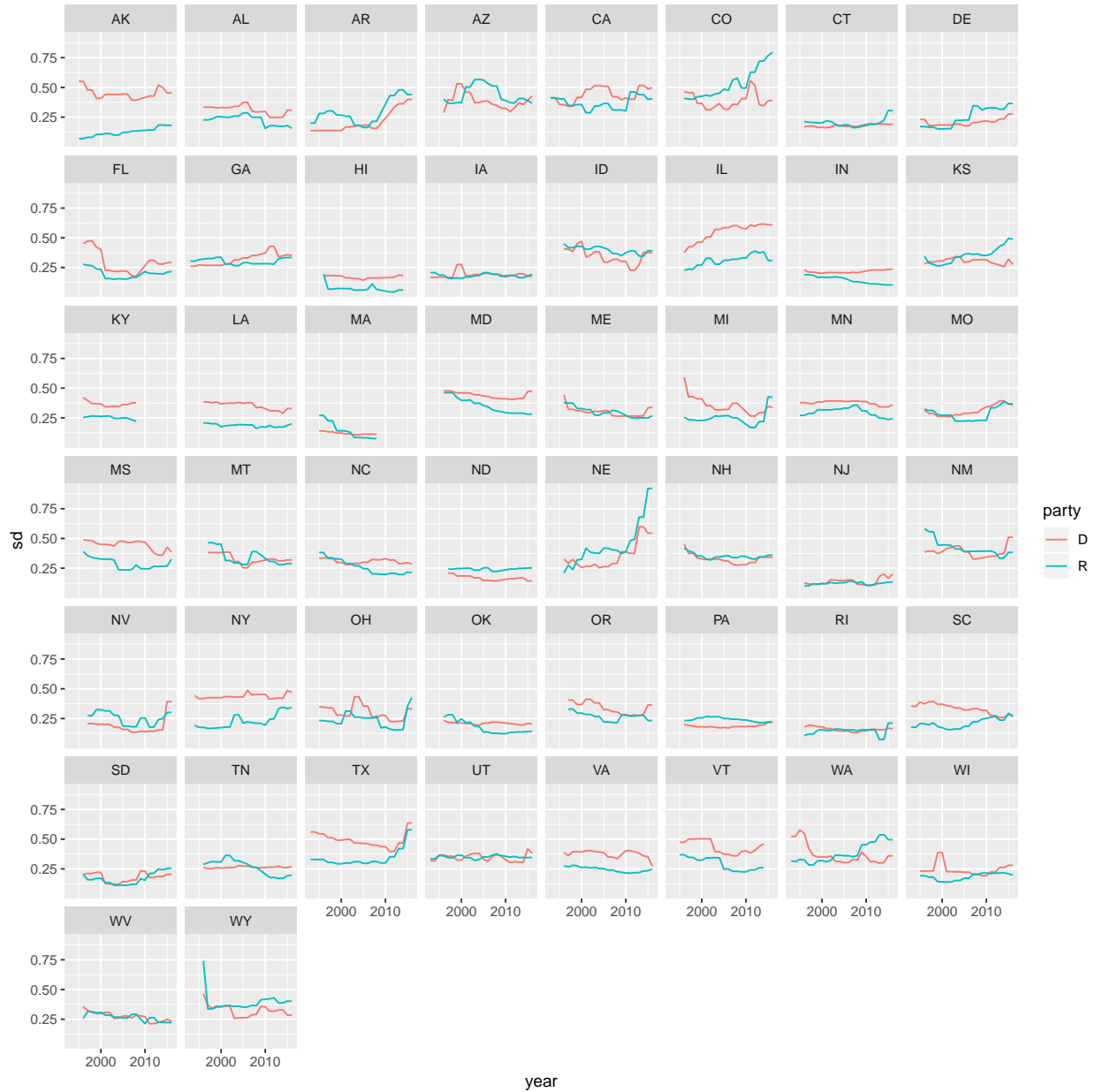


Figure 1: This figure shows the standard deviations of each state-party-year in the data from Shor (2018).

## References

- Shor, Boris. 2018. "Individual State Legislator Shor-McCarty Ideology Data, May 2018 update." <https://doi.org/10.7910/DVN/6QWX7Q>.
- Shor, Boris, and Nolan McCarty. 2011. "The Ideological Mapping of American Legislatures."

*American Political Science Review* 105(3):530–551.

Shor, Boris, Christopher Berry, and Nolan McCarty. 2010. “A Bridge to Somewhere: Mapping State and Congressional Ideology on a Cross-Institutional Common Space.” *Legislative Studies Quarterly* 35(3):417–448.