

# Party Heterogeneity

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

Carlisle Rainey<sup>†</sup>

### Abstract

Put the abstract here...

Start the introduction here...

## A Heading

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## A Sub-Heading

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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.

? and ? develop the statistical theory to estimate the ideology of state legislators along a single left-right dimension. Using data from ?, 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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\*Thanks to everyone who helped me.

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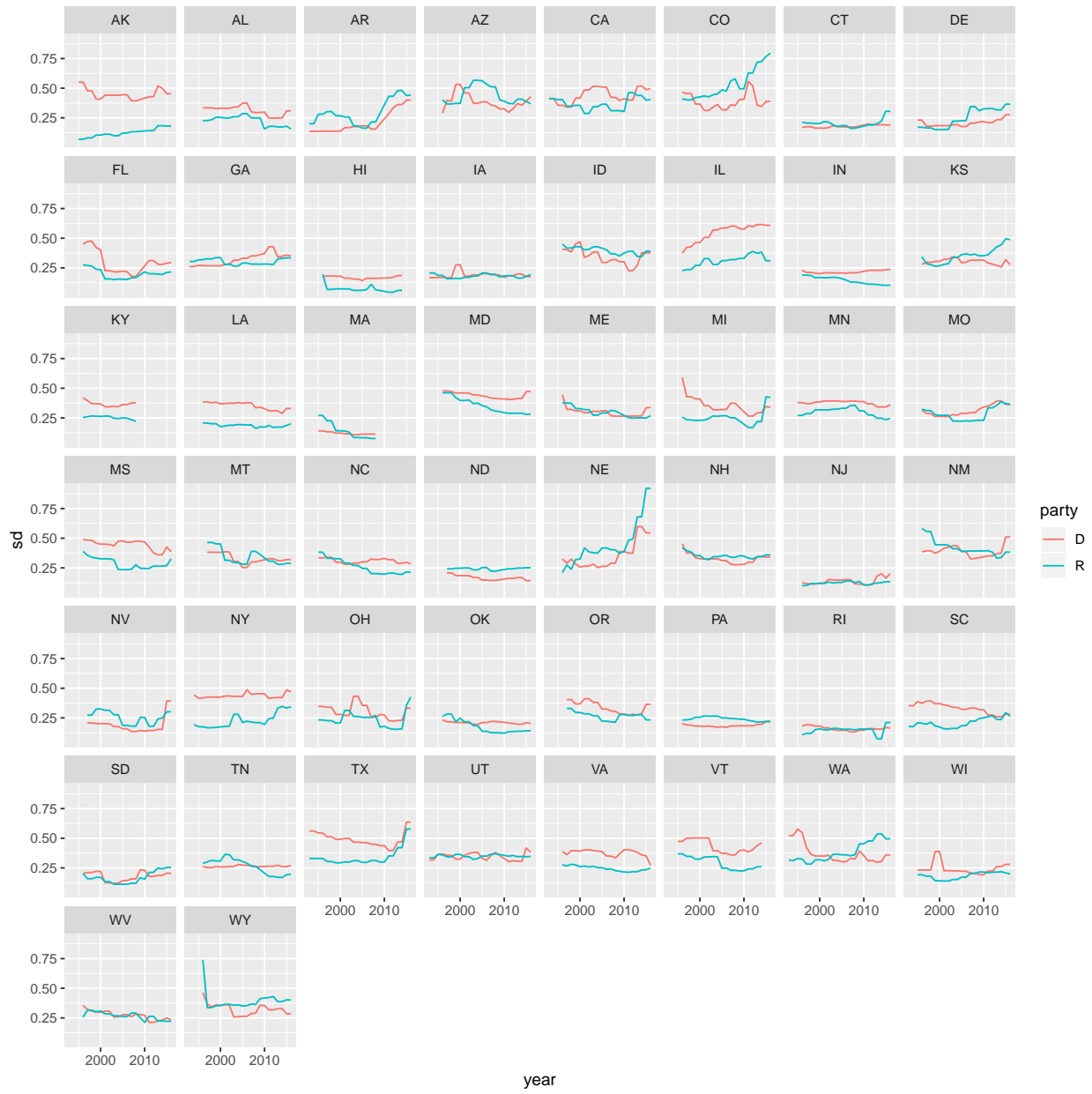


Figure 1: This figure shows the standard deviations of each state-party-year in the data from ?.