Revisiting the the Economic Consequences of Electoral Rules in Brazil*

Reproduction of 'When Do Politicians Appeal Broadly? The Economic Consequences of Electoral Rules in Brazil' (Chin, Moya. 2023).

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Election rules serve a crucial role in affecting political outcomes by controlling the way votes are converted into legislative seats, which in turn determines a nation's representation, party system, and organizational framework. By using regression discontinuity design, Chin estimated the causal effects of election rules yields three main empirical results such as the two election rounds encouraged more inclusivity given the broader regional support for the candidates in those rounds. We replicate some steps of comparing two-round election and one-round election. The results were consistent with the initial study.

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 $[\]label{eq:code} $*Code and data are available at: $$https://github.com/Yunshu921/Eco-Consequences-of-Electoral-Rules.git. A replication of various aspects in this paper are available at: $$https://www.socialsciencereproduction.org/reproductions/f44130c1-f9ae-4992-acad-59541a8582a6/index $$$$

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1 Introduction

Election law is significant because it establishes the requirements that candidates must follow in order to be included on the ballot (such as the format and submission of nominating petitions) and the guidelines that apply to write-in candidates. (Wikipedia contributors 2023) The electoral system determines who is ultimately elected, and the districts they represent will later determine the inclusiveness of government institutions, which is very important. Since according to Acemoglu and Robinson' research, a more inclusive government is good for society in the long run. (Acemoglu and Robinson 2008) On the another hand, factors such as strategic voting cause an Ortega effect, which could result in the Condorcet loser winning the race on a regular basis. (Bouton 2013) However, there is little causal evidence about the political impact of electoral laws and how they translate into economic policy, despite the abundance of theoretical research. (Chin 2023) Therefore, we want to figure out how the one of specific rules influence various aspects of election.

The original article aims to determine how a single variation in election rules—specifically, whether there are two rounds or just one for electing—affects the degree to which politicians are able to appeal to a wider range of voters. It also aims to determine how this impacts the quality of public goods offered and how they are distributed among the electorate. (Chin 2023) Chin (2023) basing their analysis focus on the times of election round. So far, we do know in democratic presidential elections, single- and two-round elections are the most commonly utilised regulations. (Bouton and Gratton 2015) Chin contrasted the single round election and second round election using regression discontinuity design to examines influence of electoral rules on political inclusivity and public goods distribution in Brazil; And then he found that two-round elections incentivize broader voter support and more equitable public goods provision, particularly in public education, leading to improved literacy rates and lower dropout rates without significantly altering broader economic conditions. The result of study was essential to highlight the strategic adjustments candidates make in two-round elections to appeal to a wider electorate, although it notes limitations in the direct attribution of socioeconomic improvements to electoral rules alone. (Chin 2023) We replicate the paper by (Chin 2023) with a focus on the following research questions:

- How does the identification of regression discontinuity design (RDD) change when we set up another threshold?
- What's the probability of being above a different threshold (285,714 inhabitants) based on registered voters?
- What's the resource index by using z-scores?

While the original paper and we both used R (R Core Team 2023a) for data processing and analysis for all data wrangling and analysis. We use R packages tidyverse (Wickham et al. 2019), 'ggplot2' (Wickham 2016) for plotting, 'gridExtra' (Auguie 2017) for arranging ggplot objects, 'rdrobust' (Calonico et al. 2023) for regression discontinuity analysis and readRDS in 'base' (R Core Team 2023b) to read the data files.

2 Data

- 2.1 Data Source and Methodology
- 2.2 Attributes
- 3 Results
- 3.1 Conclusion
- 4 Discussion
- 5 Conclusion
- 5.1 Weaknesses and next steps

References

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