Information About Corruption and Politicians' Proposals

Guillermo Lezama Department of Economics University of Pittsburgh

September 3, 2024

- Politicians strategically choose what to communicate (e.g. Gennaro, Lecce, & Morelli, 2021).

- Politicians strategically choose what to communicate (e.g. Gennaro et al., 2021).
- Concerns about the propagation of misinformation and populist rhetoric in electoral campaigns (e.g. Batista Pereira et al., 2022; Berman, 2021; Guriev & Papaioannou, 2022).

- Politicians strategically choose what to communicate (e.g. Gennaro et al., 2021).
- Concerns about the propagation of misinformation and populist rhetoric in electoral campaigns (e.g. Batista Pereira et al., 2022; Berman, 2021; Guriev & Papaioannou, 2022).
- The rhetoric of politicians has real-life consequences (e.g. Clayton et al., 2021; Hobbs & Lajevardi, 2019).

- Politicians strategically choose what to communicate (e.g. Gennaro et al., 2021).
- Concerns about the propagation of misinformation and populist rhetoric in electoral campaigns (e.g. Batista Pereira et al., 2022; Berman, 2021; Guriev & Papaioannou, 2022).
- The rhetoric of politicians has real-life consequences (e.g. Clayton et al., 2021; Hobbs & Lajevardi, 2019).
- Corruption scandals:
 - Revealing them shows problems in the government.

- Politicians strategically choose what to communicate (e.g. Gennaro et al., 2021).
- Concerns about the propagation of misinformation and populist rhetoric in electoral campaigns (e.g. Batista Pereira et al., 2022; Berman, 2021; Guriev & Papaioannou, 2022).
- The rhetoric of politicians has real-life consequences (e.g. Clayton et al., 2021; Hobbs & Lajevardi, 2019).
- Corruption scandals:
 - Revealing them shows problems in the government.
 Does the politicians' agenda change because of corruption cases?

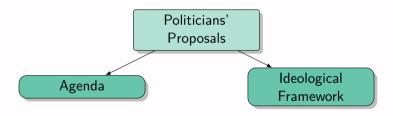
- Politicians strategically choose what to communicate (e.g. Gennaro et al., 2021).
- Concerns about the propagation of misinformation and populist rhetoric in electoral campaigns (e.g. Batista Pereira et al., 2022; Berman, 2021; Guriev & Papaioannou, 2022).
- The rhetoric of politicians has real-life consequences (e.g. Clayton et al., 2021; Hobbs & Lajevardi, 2019).
- Corruption scandals:
 - Revealing them shows problems in the government.
 Does the politicians' agenda change because of corruption cases?
 - Populist leaders often exploit public frustration with corruption (Berman, 2021).
 Do real corruption cases affect the supply of populist messages?

- Politicians strategically choose what to communicate (e.g. Gennaro et al., 2021).
- Concerns about the propagation of misinformation and populist rhetoric in electoral campaigns (e.g. Batista Pereira et al., 2022; Berman, 2021; Guriev & Papaioannou, 2022).
- The rhetoric of politicians has real-life consequences (e.g. Clayton et al., 2021; Hobbs & Lajevardi, 2019).
- Corruption scandals:
 - Revealing them shows problems in the government.
 Does the politicians' agenda change because of corruption cases?
 - Populist leaders often exploit public frustration with corruption (Berman, 2021).
 Do real corruption cases affect the supply of populist messages?

Does information about corruption affect politicians' proposals?

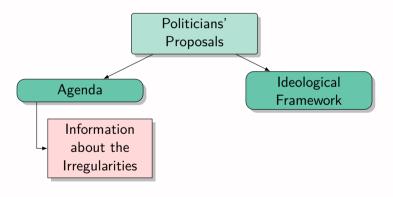
Does information about corruption affect politicians' proposals?

Does information about corruption affect politicians' proposals?



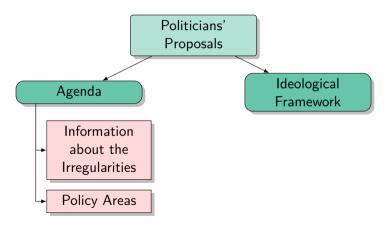
▶ What is Populism?

Does information about corruption affect politicians' proposals?

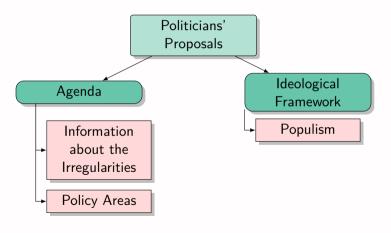


▶ What is Populism?

Does information about corruption affect politicians' proposals?

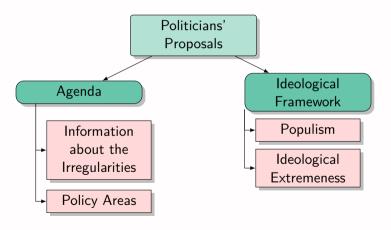


Does information about corruption affect politicians' proposals?



▶ What is Populism?

Does information about corruption affect politicians' proposals?



This Paper

Information about Corruption in **Brazilian Municipalities**

Proposals made by mayoral candidates

This Paper

Information about Corruption in **Brazilian Municipalities**

Proposals made by mayoral candidates

- Information about Corruption: Randomized Audits Program in Brazil
 - How many irregularities?
 - In which areas?
 - ▶ Irregularities

What do I do?



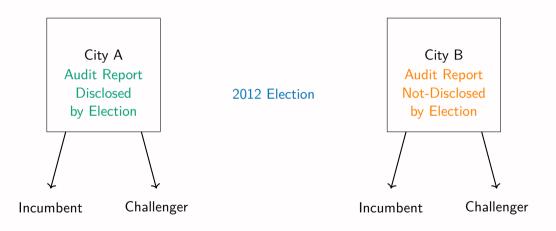
What do I do?

City A
Audit Report
Disclosed
by Election

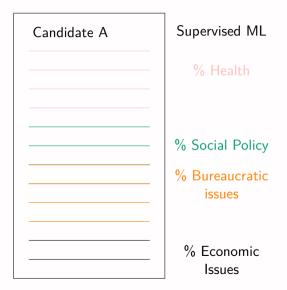
2012 Election

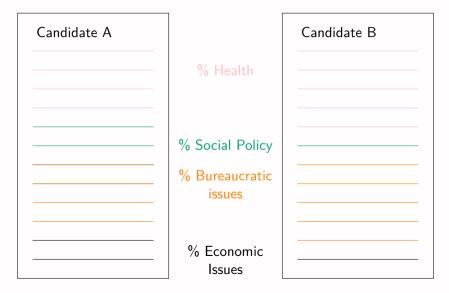
City B Audit Report Not-Disclosed by Election

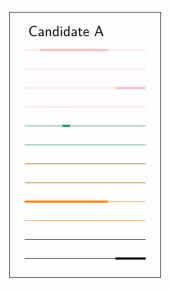
What do I do?



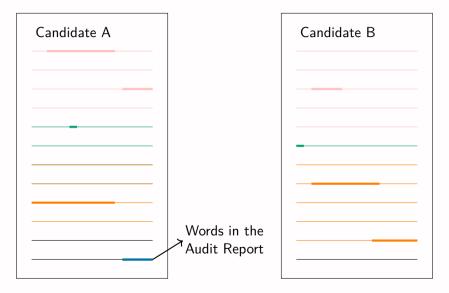
Candidate A

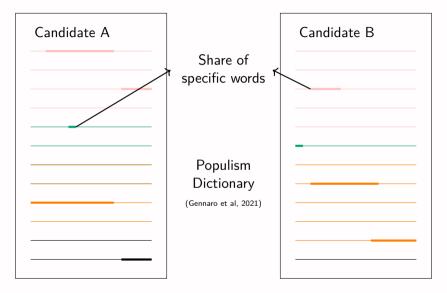


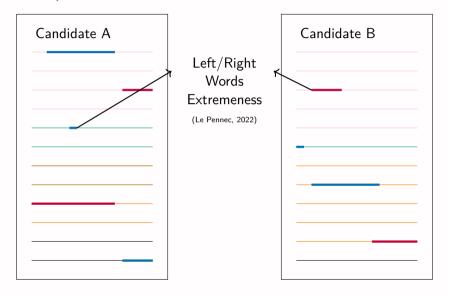












Summary of the Results

- Information about corruption affects the agenda:
 - \uparrow % vocabulary used in audit reports: 8-16% of the mean.
 - Disclosure of irregularities on a specific topic:
 - ↑ % focus on that topic **by challengers**
 - \downarrow % focus on that topic **by incumbents**

Summary of the Results

- Information about corruption affects the agenda:
 - \uparrow % vocabulary used in audit reports: 8-16% of the mean.
 - Disclosure of irregularities on a specific topic:
 - ↑ % focus on that topic **by challengers**
 - \downarrow % focus on that topic by incumbents
- Information about corruption affects political positioning:
 - High corruption municipalities:
 - Incumbents increase the use of populist rhetoric.
 - Low corruption municipalities:
 - Challengers reduce the use of populist and extreme rhetoric.

Related Work

- Responses with changes in political agenda to changes in reputation (e.g. Aragonès, Castanheira, & Giani, 2015; Dragu & Fan, 2016; Riker, 1996) Test of what politicians do.
- Factors driving the rise of populism (Berman, 2021; Gennaro et al., 2021; Guriev & Papaioannou, 2022) and extremism. Corruption affects populism supply (+ trusted sources).
- Impact of information on politicians' effort, policy choices, and electoral choices.
 - committees participation (Snyder Jr & Strömberg, 2010)
 - city council candidates' quality (Cavalcanti, Daniele, & Galletta, 2018):
 - campaign spending (Poblete-Cazenave, 2021)
 - Brazilian audits (Amorim, 2022; Avis, Ferraz, & Finan, 2018; Colonnelli & Prem, 2020; Ferraz & Finan, 2008, 2011; Gonzales, 2021; Lauletta, Rossi, & Ruzzier, 2020)

Information from scandals is used in electoral campaigns. This information affects the use of populist/extreme rhetoric.

- 1. More information about the government
- 2. Reputation shocks

- 1. More information about the government
- 2. Reputation shocks
- a. Agenda (choice about which issues to emphasize)
 - New information affects focus on or perception about optimal policies (Abou-Chadi et al., 2020; Williams et al., 2016) and candidates choose topics in which they have an advantage (Riker, 1996) or not (Aragonès et al., 2015; Dragu & Fan, 2016).

- 1. More information about the government
- 2. Reputation shocks
- a. Agenda (choice about which issues to emphasize)
 - New information affects focus on or perception about optimal policies (Abou-Chadi et al., 2020; Williams et al., 2016) and candidates choose topics in which they have an advantage (Riker, 1996) or not (Aragonès et al., 2015; Dragu & Fan, 2016).
- b. Ideological Positioning
 - Changes in reputation affect electoral competitiveness ⇒ positioning (e.g. Bernhardt et al., 2020; Buisseret & Van Weelden, 2022; Groseclose & Milyo, 2005; Serra, 2010)

- 1. More information about the government
- 2. Reputation shocks
- a. Agenda (choice about which issues to emphasize)
 - New information affects focus on or perception about optimal policies (Abou-Chadi et al., 2020; Williams et al., 2016) and candidates choose topics in which they have an advantage (Riker, 1996) or not (Aragonès et al., 2015; Dragu & Fan, 2016).
- b. Ideological Positioning
 - Changes in reputation affect electoral competitiveness ⇒ positioning (e.g. Bernhardt et al., 2020; Buisseret & Van Weelden, 2022; Groseclose & Milyo, 2005; Serra, 2010)
 - Corruption accusations are associated with populist rhetoric (Berman, 2021).
 - The existence of accurate information to negatively affect populist rhetoric (fake news are associated with this rhetoric (Guriev & Papaioannou, 2022)

Background: Brazilian's Case

Audits to Municipalities (2003-2015)

- Randomized audit policy, revealing local government corruption cases.
- Each audited municipality received a report. Irregularities
- Audits are targeted to specific areas for municipalities with population > 20,000.
- Had effects (e.g. Avis et al., 2018; Ferraz & Finan, 2008; Lauletta et al., 2020)

Background: Brazilian's Case

Audits to Municipalities (2003-2015)

- Randomized audit policy, revealing local government corruption cases.
- Each audited municipality received a report.
- Audits are targeted to specific areas for municipalities with population > 20,000.
- Had effects (e.g. Avis et al., 2018; Ferraz & Finan, 2008; Lauletta et al., 2020)

Elections and Manifestos

- Municipal elections every four years.
- Maximum two consecutive periods.
- 2.88 candidates in average.
- 48% municipalities have a candidate going for re-election.
- Since 2009, **manifestos** are required before executive election bids.
 - ▶ Manifestos in the News

Data

- 2012 election in municipalities in Brazil.
- Audits
 - Municipalities audited in 2009-2013 (11 rounds)
 - 643 audited municipalities (out of 5,568) in 2009-2012.
 - Data about corruption and irregularities Irregularities
- Municipal characteristics (IBGE).
- Candidates manifestos at the local level in Brazil for the 2012 election.
 - ▶ Manifestos in the News
 - From the electoral authority website: Downloaded 16,173 pdfs and 13,724 texts.
 - After cleaning: 13,344 candidates from 5,394 municipalities
 - ▶ Descriptives

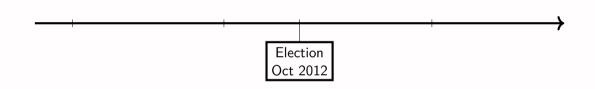
Dependent Variables: Agenda

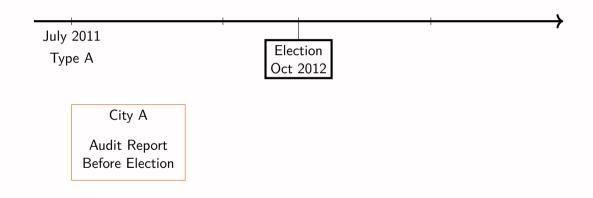
- 1. Overlap With Audit Reports
 - Measure: Share of words in reports present in manifestos.
- 2. Agenda: Classified lines into topics
 - Supervised learning: Multinomial naive Bayes classifier (manually codified pprox 1%)
 - Labels: Titles, Introduction, Health, Social Policy, Economic/Sectoral and Environmental Policies, Bureaucratic issues, Infrastructure and Urban issues, and Crime.
 - Measure: how much of a specific agenda they discuss.
- Descriptives

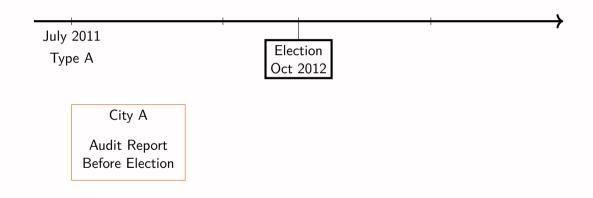
Dependent Variables: Ideological Positioning

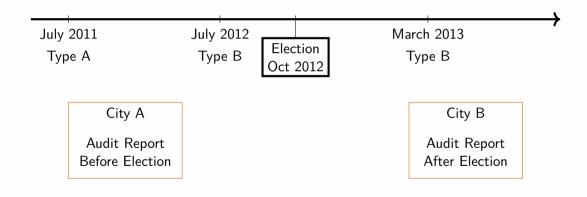
- 3. Populism (Gennaro et al., 2021)
 - Example words (in English): elite, absurd, corrupt, establishment

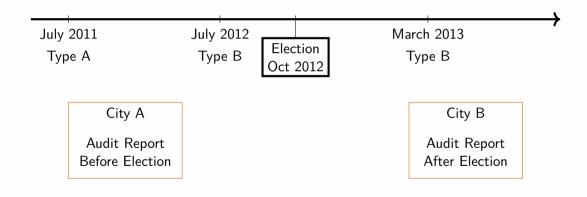
- 4. Manifestos Positioning in the Left-Right axis: Wordscores (Laver, Benoit, & Garry, 2003; Le Pennec, 2022).
 - Which words are used by the Left or the Right?
 - Data-driven
 - Compute scores for each document. Methodology Words Densities Ideological
- Descriptives

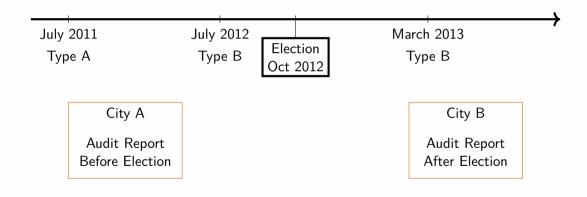


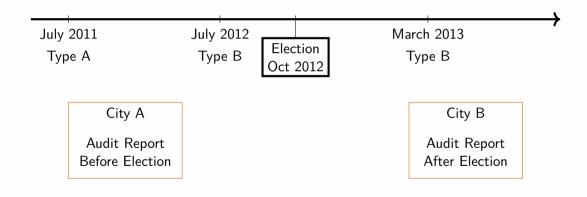












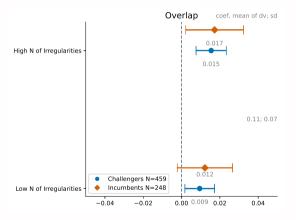
$$\begin{aligned} \textit{Outcome}_{\textit{imst}} = \alpha + \beta_0 \textit{Disclosure}_{\textit{mst}} + \beta_1 \textit{Disclosure}_{\textit{mst}} \times \textit{High_Corruption} + \\ + \beta_2 \textit{High_Corruption} + \gamma \textit{Controls}_{\textit{imst}} + \nu_{\textit{s}} + \varepsilon_{\textit{imst}} \end{aligned}$$

- $Disclosure_{mst} = 1$ (municipality audit report disclosed before the 2012 election)
- $\mathit{High_Corruption} = \mathbb{1}(\mathsf{number}\ \mathsf{of}\ \mathsf{acts}\ \mathsf{of}\ \mathsf{corruption}\ \mathsf{higher}\ \mathsf{than}\ \mathsf{the}\ \mathsf{median})$
 - ▶ Controls
- Used in Ferraz and Finan (2008) ▶ Balance ▶ Balance 2
- β_0 : effect of pre-election audit outcomes when corruption was low.
- $\beta_0 + \beta_1$: effect of pre-election audit outcomes when corruption was high.

Effects on the Agenda

Results I: Effect of the Disclosure on the Content

DV: Share of words from the audit report that overlap with the manifesto

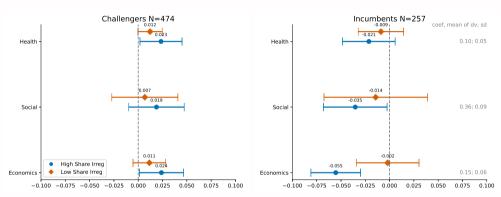


Candidates use information from irregularities on manifestos if the report was disclosed.

95% CI's. ▶ Table Incumbents ▶ Table Challengers ▶ Means ▶ Irregularities

Results II: Effect of the Disclosure on the Topics

DV: Share of Words on each Topic



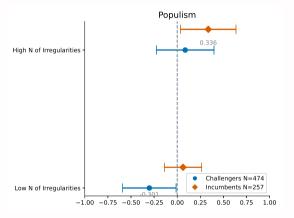
Challengers: Disclosure \Rightarrow Discuss **more** about topics with a large share of irregularities Incumbents: Disclosure \Rightarrow Discuss **less** about topics with a large share of irregularities

95% CI's. ▶ Descriptives ▶ By Population ▶ Table Incumbents ▶ Table Challengers

Effects on the Ideological Framework

Results III: Effect of the Disclosure on Populism

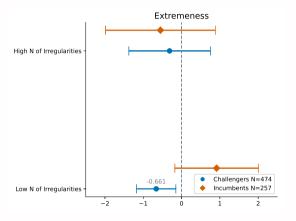
DV: Share of Words in the Manifesto used by Populists



Challengers: Disclosure \Rightarrow Use **less** populist rhetoric in cities with **low** N of irregularities Incumbents: Disclosure \Rightarrow Use **more** populist rhetoric in cities with **high** N of irregularities 95%

Results IV: Effect of the Audit on Extremeness (cond. on Corruption)

DV: Ideological Extremeness (|Ideological Score - median(Ideological Score)|)



95% CI's. Table Incumbents Table Challengers Means Challengers: Disclosure \Rightarrow Use **less** ideological extreme vocabulary in cities with **low** N of irregularities

Other Results in Progress

- Number of Words → Results
- Audits on Health Policy Results
- Corruption and Transparency ▶ Results
- Partisanship ▶ Results
- Who are the populists? In High-Corruption Incumbents, not correlated with Same Party as Governor or President, and with winning re-election.
- What happens in races without an incumbent? No significant results.
- 75th percentile.

Summary of the Results

Summary of the Results

	Challengers	Incumbents
Agenda	_	
Information about the Irregularities	†	†
Topics with a High Share of Irregularities	↑	\

Summary of the Results

	Challengers	Incumbents	
Agenda			
Information about the Irregularities	†	↑	
Topics with a High Share of Irregularities	†	\	
Ideological Framework			
Populism	Conditional on Reputation	Conditional on Reputation	
Extremeness	Conditional on Reputation	No	

- Revealing information affects the issues politicians focus on.

- Revealing information affects the issues politicians focus on.
- Politicians respond, but engagement in topics depends on reputation shocks.

- Revealing information affects the issues politicians focus on.
- Politicians respond, but engagement in topics depends on reputation shocks.
- Information about corruption also influences the ideological framework.

- Revealing information affects the issues politicians focus on.
- Politicians respond, but engagement in topics depends on reputation shocks.
- Information about corruption also influences the ideological framework.
- Future research: Role of the media (Avis et al., 2018) and measuring polarization.

- Revealing information affects the issues politicians focus on.
- Politicians respond, but engagement in topics depends on reputation shocks.
- Information about corruption also influences the ideological framework.
- Future research: Role of the media (Avis et al., 2018) and measuring polarization.
- We knew monitoring interventions have effects on corruption.

- Revealing information affects the issues politicians focus on.
- Politicians respond, but engagement in topics depends on reputation shocks.
- Information about corruption also influences the ideological framework.
- Future research: Role of the media (Avis et al., 2018) and measuring polarization.
- We knew monitoring interventions have effects on corruption.
- It affects the content of the proposals.

- Revealing information affects the issues politicians focus on.
- Politicians respond, but engagement in topics depends on reputation shocks.
- Information about corruption also influences the ideological framework.
- Future research: Role of the media (Avis et al., 2018) and measuring polarization.
- We knew monitoring interventions have effects on corruption.
- It affects the content of the proposals.
- It affects political positioning \Rightarrow political climate.

- Revealing information affects the issues politicians focus on.
- Politicians respond, but engagement in topics depends on reputation shocks.
- Information about corruption also influences the ideological framework.
- Future research: Role of the media (Avis et al., 2018) and measuring polarization.
- We knew monitoring interventions have effects on corruption.
- It affects the content of the proposals.
- It affects political positioning ⇒ political climate.

Thank you!

 $guillelezama@pitt.edu \mid guillelezama.com$

References I

- Abou-Chadi, T., Green-Pedersen, C., & Mortensen, P. B. (2020). Parties' policy adjustments in response to changes in issue saliency. *West European Politics*, 43(4), 749–771.
- Amorim, G. (2022). Monitoring transfers to public health: Evidence from randomized audits in brazil (Tech. Rep.).
- Aragonès, E., Castanheira, M., & Giani, M. (2015). Electoral competition through issue selection. *American journal of political science*, *59*(1), 71–90.
- Avis, E., Ferraz, C., & Finan, F. (2018). Do government audits reduce corruption? estimating the impacts of exposing corrupt politicians. *Journal of Political Economy*, 126(5), 1912–1964.
- Batista Pereira, F., Bueno, N. S., Nunes, F., & Pavão, N. (2022). Fake news, fact checking, and partisanship: the resilience of rumors in the 2018 brazilian elections. *The Journal of Politics*, 84(4), 2188–2201.
- Berman, S. (2021). The causes of populism in the west. *Annual Review of Political Science*, 24, 71–88.
- Bernhardt, D., Buisseret, P., & Hidir, S. (2020). The race to the base. *American Economic Review*, 110(3), 922–42.

References II

- Bolognesi, B., Ribeiro, E., & Codato, A. (2022). A new ideological classification of brazilian political parties. *Dados*, *66*.
- Buisseret, P., & Van Weelden, R. (2022). Polarization, valence, and policy competition. *American Economic Review: Insights*, 4(3), 341–352.
- Cavalcanti, F., Daniele, G., & Galletta, S. (2018). Popularity shocks and political selection. *Journal of Public Economics*, 165, 201–216.
- Clayton, K., Davis, N. T., Nyhan, B., Porter, E., Ryan, T. J., & Wood, T. J. (2021). Elite rhetoric can undermine democratic norms. *Proceedings of the National Academy of Sciences*, 118(23), e2024125118.
- Colonnelli, E., & Prem, M. (2020). Corruption and firms. Available at SSRN 2931602.
- Dragu, T., & Fan, X. (2016). An agenda-setting theory of electoral competition. *The Journal of Politics*, 78(4), 1170–1183.
- Ferraz, C., & Finan, F. (2008). Exposing corrupt politicians: the effects of brazil's publicly released audits on electoral outcomes. *The Quarterly journal of economics*, *123*(2), 703–745.
- Ferraz, C., & Finan, F. (2011). Electoral accountability and corruption: Evidence from the audits of local governments. *American Economic Review*, 101(4), 1274–1311.

References III

- Gennaro, G., Lecce, G., & Morelli, M. (2021). Mobilization and the strategy of populism theory and evidence from the united states.
- Gonzales, M. (2021). Politics never end: Public employment e ects of increased transparency.
- Groseclose, T., & Milyo, J. (2005). A measure of media bias. *The Quarterly Journal of Economics*, 120(4), 1191–1237.
- Guriev, S., & Papaioannou, E. (2022). The political economy of populism. *Journal of Economic Literature*, 60(3), 753–832.
- Hobbs, W., & Lajevardi, N. (2019). Effects of divisive political campaigns on the day-to-day segregation of arab and muslim americans. *American Political Science Review*, 113(1), 270–276.
- Lauletta, M., Rossi, M., & Ruzzier, C. (2020). Audits and the quality of government (Tech. Rep.). (Working Paper N 141, Universidad de San Andrés. Available at https://webacademicos.udesa.edu.ar/pub/econ/doc141.pdf)
- Laver, M., Benoit, K., & Garry, J. (2003). Extracting policy positions from political texts using words as data. *American political science review*, *97*(2), 311–331.
- Le Pennec, C. (2022). Strategic campaign communication: Evidence from 30,000 candidate manifestos (Tech. Rep.).

References IV

- Poblete-Cazenave, R. (2021). Reputation shocks and strategic responses in electoral campaigns. *Available at SSRN 3786253*.
- Riker, W. H. (1996). The strategy of rhetoric: Campaigning for the american constitution. Yale University Press.
- Serra, G. (2010). Polarization of what? a model of elections with endogenous valence. *The Journal of Politics*, 72(2), 426–437.
- Snyder Jr, J. M., & Strömberg, D. (2010). Press coverage and political accountability. *Journal of political Economy*, 118(2), 355–408.
- Tarouco, G. d. S., & Madeira, R. M. (2015). Os partidos brasileiros segundo seus estudiosos: análise de um expert survey. *Civitas-Revista de Ciências Sociais*, 15, e24–e39.
- Williams, L. K., Seki, K., & Whitten, G. D. (2016). You've got some explaining to do the influence of economic conditions and spatial competition on party strategy. *Political Science Research and Methods*, 4(1), 47–63.

Manifestos in the News

ELEIÇÕES 2020

Conheça o plano de governo de Pepe Vargas, candidato a prefeito de Caxias

Pioneiro apresenta as propostas dos 11 candidatos à prefeitura de Caxias

Manifestos in the News

ELEICÕES 2020

Conheça o plano d de Pepe Vargas, ca prefeito de Caxias

Pioneiro apresenta as propostas dos 11 candidatos à prefeitura

Propostas

A chapa "Curitiba Inovação e Amor" foi composta por sete partidos: PMN, PSDB, PSB, DEM, PTN, PSDC e PTdoB.

Durante a campanha, o candidato afirmou em programas eletoras, entrevistas e debates que pretende tomar o atendimento na saúde pública municipal mais eficiente. Uma das propostas, que segundo ele, pode ser concretizada em 180 dias, é implantar um modelo de agendamento nos posto de saúde que fará com que as pessoas não precisem passar a madruga na fila para conseguir constituir.

CURITIBA

População estimada (2016) 1.893.997

1.289.215

0,823

R\$ 42.934,38

Orçamento (2016)
R\$ 8,3 bilhões

* modida resumida do progresso em renda, educação e saúde: IDH do país é 0.755

Fontes: IBGE, TSE, prefeituras e câmaras

Em dois anos, afirma Greca no plano de governo, pretende criar o Centro de Especialidades Metropoltano no Portão, garantindo consultas especializadas com cardiologistas, endocrinologistas, geriatras, por exemplo, e ou jue multilisporinar.

Quando falava em mobilidade urbana, Greca era enfático ao afirmar que vai retornar a integração do transporte público de Curitiba com o da Região Metropolitana.

Ainda sobre transporte público, Greca prometeu criar uma tarifa diferenciada, para horários alternativos, diminuindo a sobrecarga nos horários de alto fluxo e revitalizar os terminais de ônibus.

Sobre educação, Greca afirmou que nos primeiros dias de gestão vai identificar a real necessidade de vagas no ensino fundamental e na educação infantil na cidade.

No plano de governo, uma das propostas e colocar Centros Municipais de Educação Infantil

(Cmeis) em funcionamento, abrir turmas de berçário e aumentar as vagas para crianças entre zero e três anos.

Manifestos in the News

Série traz as propostas de Carlos Eduardo para Natal

Prefeito eleito da capital assume o cargo no dia 1º de ianeiro de 2013. Propostas do plano de governo serão mostradas em série de 8 reportagens.



O prefeito eleito de Natal. Carlos Eduardo (PDT), assume o comando da cidade no dia 1º de igneiro de 2013. Dentre os desafos que ele se propós a enfrentar no Plano de Governo estão problemas nas áreas de saúde, educação, acessibilidade, mobilidade, moradia, esgotamento sanitário, drenagem urbana e coleta regular de lixo.

A série "Copie e Cobre" do Q1 irá apresentar as possíveis soluções que Carlos Eduardo apresentou aos eleitores. Serão oito reportagens - que irão ao ar de sexta (28) até a próxima segunda-feira (31).

▶ Back to Background

▶ Back to Data

ւ o plano d Vargas, ca de Caxias

Propostas

A chapa "Curitiba Inovação e Amor" foi composta por sete partidos: PMN, PSDB, PSB, DEM, PTN, PSDC e PTdoB.

Durante a campanha, o candidato afirmou em programas eleitorais, entrevistas e debates que pretende tomar o atendimento na saúde pública municipal mais eficiente. Uma das propostas, que segundo ele, pode ser concretizada em 180 dias, é implantar um modelo de agendamento nos posto de saúde que fará com que as pessoas não precisem passar a madruga na fila para

População estimada (2016) 1.893.997

- 1.289.215
- 0.823 PIB per capita (2013)
- R\$ 42 934 38 Orçamento (2016) R\$ 8,3 bilhões
- * medida resumida do progresso em renda, educação e

* medida resumida do prog saúde: IDH do país é 0,755

Forter IBOE TSE prefetures a climara.

- Em dois anos, afirma Greca no plano de noverno pretende criar o Centro de Especialidades Metropolitano no Portão. garantindo consultas especializadas com cardiologistas endocrinologistas periatras por exemplo, e equipe multidisciplinar
- Quando falava em mobilidade urbana. Greca era enfático ao afirmar que vai retornar a integração do transporte público de Curitiba. com o da Região Metropolitana.
- Ainda sobre transporte público. Greca prometeu criar uma tarifa diferenciada, para horários alternativos, diminuindo a sobrecarga nos borários de alto fluvo e revitalizar os terminais de Anihus
- Sobre educação. Greca afirmou que nos primeiros dias de gestão vai identificar a real necessidade de vagas no ensino fundamental e na educação infantil na cidade.
- No plano de governo, uma das propostas e colocar Centros Municipais de Educação Infantil

(Cmeis) em funcionamento, abrir turmas de bercário e aumentar as vacas para crianças entre zero e três anos.

Descriptives: Candidates

Table: Descriptives for Candidates

	Rounds 28 - 35 (2009-2012)		Rounds 36 - 38 (2012-2013)		Other	
	Mean	SD	Mean	SD	Mean	SD
Age	48.70	10.53	48.13	10.35	48.58	13.66
% College Studies	0.55	0.50	0.58	0.49	0.56	0.50
% Women	0.14	0.35	0.13	0.34	0.13	0.34
% Same party as the President	0.10	0.30	0.11	0.32	0.12	0.32
% Same party as the Governor	0.15	0.35	0.13	0.33	0.15	0.36
Running for re-election	0.18	0.38	0.19	0.39	0.18	0.38
Number of Candidates	3.38	1.50	3.39	1.45	3.29	1.46
Observations	1129		423		11548	

[▶] Back to Empirical Analysis

Descriptives: Issues and Ideological Content

Table: Descriptives for Manifestos on their content

	Mean	p50	p90	se	N
Bureaucracy	0.08	0.07	0.13	0.04	13344
Social	0.36	0.36	0.47	0.09	13344
Health	0.10	0.10	0.16	0.05	13344
Urban	0.12	0.11	0.19	0.06	13344
Economic	0.15	0.15	0.23	0.06	13344
Crime	0.02	0.02	0.04	0.02	13344
Overlap	0.11	0.10	0.19	0.07	1554
Populism	0.05	0.04	0.12	0.06	13706
Extremeness	2.47	2.14	4.77	2.18	13322
Count	2150	1446	4472	2578	13344

[▶] Back to Data 1 → Back to Data 2 → Back to Data 3 → Back to Exploratory Analysis → Back to Results 1 → Back to Results 2

[▶] Back to Results 3 ▶ Back to Results 4

Balance Audits

Table: Mean Comparisons between Audited and Nonaudited Municipalities

	Control	Treatment	Difference
GDP pc	12886.52	10805.9	-819.3
•	[14487.15]	[9571.88]	[569.971]
Share Illiterate (%)	85.3472	83.51522	-0.0758
	[8.86]	[9.33]	[0.258]
Share Urban	0.6374198	0.6262824	0.00446
	[0.22]	[0.21]	[0.007]
Share Secondary Education and above	0.2156972	0.2083799	0.000671
	[0.08]	[0.08]	[0.003]
Share of Bureaucrats with Superior Education	0.3069009	0.2967605	-0.00219
	[0.11]	[0.11]	[0.004]
HDI	0.6598012	0.6443488	-0.00108
	[0.07]	[0.07]	[0.002]
AM radio	0.2092931	0.1987315	-0.00137
	[0.41]	[0.4]	[0.025]
Gini	0.5013802	0.5095829	-0.0014
	[0.07]	[0.06]	[0.002]
Population (logs)	9.377024	9.470213	0.00526
	[1.09]	[1.1]	[0.032]
Audited Previously	0.2499018	0.2635983	-0.0113
	[0.43]	[0.44]	[0.021]
Observations	5090	478	

[▶] Back to Empirical Analysis

Balance Timing

Table: Mean Comparisons between Audited and Nonaudited Municipalities

	Control	Treatment	Difference
GDP pc	11700.37	10805.9	-483.2
	[14514.56]	[9571.88]	[1320.197]
Share Illiterate (%)	84.28	83.52	-0.16
	[8.84]	[9.33]	[0.546]
Share Urban	0.64	0.63	0
	[0.22]	[0.21]	[0.014]
Share Secondary Education and above	0.22	0.21	0
	[0.08]	[80.0]	[0.005]
Share of Bureaucrats with Superior Education	0.31	0.3	-0.01
	[0.11]	[0.11]	[0.009]
HDI	0.65	0.64	0
	[0.07]	[0.07]	[0.004]
AM radio	0.2	0.2	0
	[0.4]	[0.4]	[0.041]
Gini	0.5	0.51	0
	[0.06]	[0.06]	[0.004]
Population (logs)	9.41	9.47	0.07
	[1.11]	[1.1]	[0.053]
Audited Previously	0.24	0.26	0.03
	[0.43]	[0.44]	[0.043]
Observations	165	478	

[▶] Back to Empirical Analysis

Geographical Variation

- Platforms show variation across municipalities.
- Increase in the use of populist vocabulary (? dictionary).

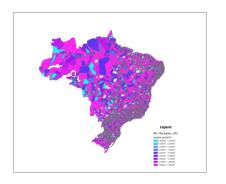




Figure: Percentage of local party manifestos in Brazil that include a populist word (Left: 2012. Right: 2020)

▶ Back to Data

Examples

Populism "It is a summarized and serious platform that I present to the people from serrano, who wish to see true progress in our municipality, coming to put an end to the excesses, corruption and dishonesty of politicians who have no commitment to the people from serrano." (Jesus dos Passos Vaz, Serra/ES)

▶ Back to Data

Ideological Positioning

- Classification of parties given by the literature, → Parties
- For each word w, frequency of w in all the manifestos in the right

$$p_w^R = \frac{\sum_{j \in R} c_{wj}}{\sum_{j \in R} m_j}$$

 c_{wj} is the count of word w in document j; m_j is the word-count of j.

- Using these frequencies, I can compute the right-wing score of each word w

$$s_w^R = \frac{p_w^R}{p_w^R + p_w^L} - \frac{p_w^L}{p_w^R + p_w^L} \tag{1}$$

- A manifesto *j* score is then calculated by:

$$S_j^R = \frac{\sum_w p_{wj}^R \times s_w^R}{S_R} \tag{2}$$

- Extremeness is computed as $|S_i|$
- Partisanship is measured by performing this for each party q (q vs. others instead of right vs. left)

Populism

What is populism?

- the people as a homogeneous and pure entity (e.g., "people")
- the elite as a homogeneous and corrupt entity (e.g., "establishment", "corruption")
- the people and the elite as two antagonistic groups (e.g., "arrogant", "betray")
- the need to give power back to the people (e.g., "direct", "referendum").

Populism

What is populism?

- the people as a homogeneous and pure entity (e.g., "people")
- the elite as a homogeneous and corrupt entity (e.g., "establishment", "corruption")
- the people and the elite as two antagonistic groups (e.g., "arrogant", "betray")
- the need to give power back to the people (e.g., "direct", "referendum").

Procedure

- (i) Computed TF-IDF matrix.
- (ii) Sum of the TF-IDF values for each word of a document on each dimension
- (iii) Standardized Variable
- ▶ Back to RQ → Back to Data

Irregularities

Table: Number of Irregularities per Policy Area

	N	Percentage
Bureaucracy	58	0.2%
Crime	138	0.4%
Economics	1,494	4.1%
Health	10,207	28.2%
Social	21,644	59.8%
Urban	1,818	5.0%
Other	811	2.2%

- Source: CGU

[▶] Back to Backgroud ▶ Back to Data

Party Classification: Parties

Table: Parties in the 2012 Election and how they are labeled to measure extremeness

Left	Center	Right
PCO	MDB	PTB
PSTU	Avante	SDD
PSOL	PMN	Podemos
PCB	PHS	PRTB
PCdoB	PSDB	PRB
PT	PSD*	PTC
PSB		PRP
PDT		PR
PV		PSL
PPS		PSC
UP*		DC
PPL*		Progre
		DEM

a Notes: This table shows distribution of parties in the left, center and right-wing groups following Tarouco and Madeira (2015). They are ordered from left (above) to right (below).

▶ Back to Data 21 / 21

^{*} Parties classified using Bolognesi, Ribeiro, and Codato (2022).

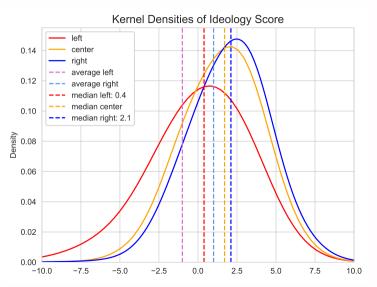
Party Classification: Words

Table: Words with the lowest (left-wing) and highest (right-wing) scores

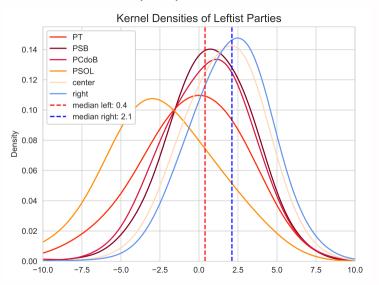
Leftist Words	Right-wing Words
cidasc	democratas
petista	cristao
capitalista	crista
petistas	democrata
socialismo	republicano
inverter	farei
deliberativos	indeb
desiguais	renova
socialistas	equoterapia
dominante	grafias

[▶] Back to Data

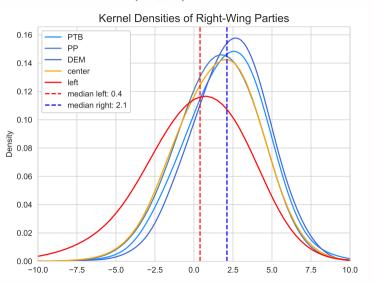
Party Classification: Densities



Party Classification: Densities (Left)



Party Classification: Densities (Right)



Effect of the Audits According to the Areas Inspected

Table: Effect of the Audit on Share Dedicated to Health Policies

	(1)	(2)	(3)	(4)
Audited	0.009*** (0.003)	0.002 (0.007)	0.001 (0.004)	0.011 (0.017)
Candidate	Challengers	Challengers	Incumbents	Incumbents
Carraraaco	Chancingers	Chancingers	meanibenes	meumbents
Population	Below 50K	Above 100K	Below 50K	Above 100K
	•	•		
Population	Below 50K	Above 100K	Below 50K	Above 100K

[▶] Other Results

Effect of the Audit on the Use of Specific Words

Table: Outcome: Frequency of words on Manifestos (% of Words on the Manifesto)

	Panel A: 0	Challengers				Panel B: I	ncumbents		
	(1) Corruption	(2) Transparency	(3) Corruption	(4) Transparency		(1) Corruption	(2) Transparency	(3) Corruption	(4) Transparency
	Согтирион	Transparency	Согараон	Transparency		Согтирающ	Transparency	Согтиранн	Transparency
Disclosure	-0.000 (0.000)	-0.000 (0.000)	-0.000 (0.000)	0.000	Disclosure	-0.000* (0.000)	-0.000 (0.000)	-0.000 (0.000)	-0.000 (0.000)
${\sf High\text{-}Corruption} \times {\sf Disclosure}$	(0.000)	(0.000)	0.000)	0.000	${\sf High\text{-}Corruption} \times {\sf Disclosure}$	(0.000)	(0.000)	-0.000 (0.000)	0.000
High-Corruption			0.000	-0.001* (0.000)	High-Corruption			0.000	-0.000 (0.000)
				, ,				, ,	
Observations	3,948	3,948	474	474	Observations	2,298	2,298	257	257
R-squared	0.027	0.069	0.130	0.107	R-squared	0.010	0.056	0.093	0.254
Mean of DV	5.46e-05	0.00200	6.14e-05	0.00181	Mean of DV	2.03e-05	0.00185	1.01e-05	0.00173
$\beta_0 + \beta_1$			-4.81e-05	0.000499	$\beta_0 + \beta_1$			-3.13e-05	0.000276
p-value			0.605	0.261	p-value			0.556	0.419

[▶] Other Results

Effect of the Audit on the Number of Words

Table: Outcome: Number of Words on the Manifesto

	(1)	(2)	(3)	(4)
Disclosure	169.3	65.533	183.5	66.836
	(146.4)	(228.117)	(113.5)	(264.176)
High-Corruption x Disclosure		121.428		-109.060
		(225.223)		(510.371)
High-Corruption		4.414		133.891
		(337.023)		(706.177)
	.			
Candidate	Challengers	Challengers	Incumbents	Incumbents
Observations	3,948	474	2,298	257
R-squared	0.1	0.619	0.1	0.788
Mean	2164	2288	1907	2051
$\beta_0 + \beta_1$		187		-42.22
pval		0.226		0.920

[▶] Other Results

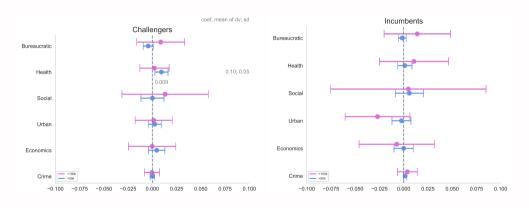
Effect of the Audit on the Ideological Framework

Table: Outcome: Frequency of words on Manifestos (% of Words on the Manifesto)

		Panel A: C	hallengers						Panel B: In	cumbents			
	(1)	(2)	(3)	(4)	(5)	(6)		(1)	(2)	(3)	(4)	(5)	(6)
	Populism	Extremeness	Partisanship	Populism	Extremeness	Partisanship		Populism	Extremeness	Partisanship	Populism	Extremeness	Partisanship
							•						
Disclosure	0.002	-0.183*	-0.055	-0.301**	-0.661**	-0.254	Disclosure	-0.023	0.212	0.073	0.063	0.914*	0.781
	(0.046)	(0.096)	(0.087)	(0.138)	(0.244)	(0.266)		(0.058)	(0.250)	(0.214)	(0.096)	(0.520)	(0.657)
High-Corruption x Disclosure				0.387**	0.348	0.194	High-Corruption x Disclosure				0.273	-1.466*	-1.881*
				(0.154)	(0.465)	(0.611)					(0.170)	(0.721)	(1.048)
High-Corruption				-0.279**	-0.026	0.105	High-Corruption				-0.322	1.233*	1.067
				(0.110)	(0.368)	(0.630)					(0.206)	(0.628)	(1.092)
Observations	3,948	3,946	3,489	474	474	422	Observations	2,298	2,261	2,181	257	254	238
R-squared	0.111	0.058	0.025	0.134	0.154	0.126	R-squared	0.15	0.05	0.03	0.28	0.16	0.15
Mean of DV	0.0800	2.248	-0.0933	0.130	2.185	-0.191	Mean of DV	-0.18	2.13	-0.04	-0.18	2.24	-0.06
$\beta_0 + \beta_1$				0.0861	-0.313	-0.0599	$\beta_0 + \beta_1$				0.34	-0.55	-1.10
p-value				0.569	0.546	0.894	p-value				0.03	0.43	0.30

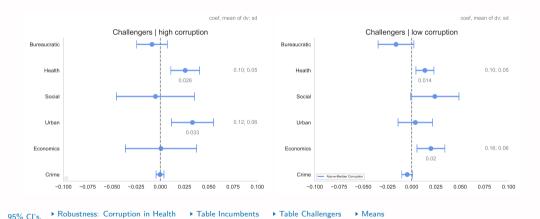
▶ Other Results

Effect of the Audit on the Agenda (cond. on Corruption) - Population



95% CI's. ▶ Back to Results

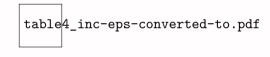
Effect of the Audit on the Agenda (cond. on Corruption) for Challengers



Effect of the Audit on the Agenda (cond. on Corruption) for Incumbents

▶ Robustness: Corruption in Health → Table Incumbents

95% Cl's.



▶ Table Challengers

Challengers Agenda

Table: Audits on Shares - Challengers

	(1) Bureaucratic	(2) Social	(3) Health	(4) Urban	(5) Economy	(6) Crime	(7) count	(8) overlapa
Audited	-0.016*	0.024*	0.014***	0.004	0.020***	-0.005	65.533	0.009**
, taured	(0.009)	(0.012)	(0.004)	(0.009)	(0.007)	(0.003)	(228.117)	(0.004)
corrup_au	0.008	-0.029*	0.012	0.029**	-0.019	0.004	121.428	0.006
•	(0.011)	(0.016)	(0.007)	(0.013)	(0.016)	(0.004)	(225.223)	(0.006)
corr	-0.009	0.016	-0.016*	-0.039**	0.009	-0.005	4.414	-0.021***
	(0.013)	(0.014)	(0.009)	(0.015)	(0.015)	(0.003)	(337.023)	(0.005)
Observations	474	474	474	474	474	474	474	459
R-squared	0.116	0.138	0.204	0.189	0.137	0.167	0.619	0.856
$\Delta_0 + \beta_1$	-0.00856	-0.00500	0.0257	0.0331	0.000665	-0.000311	187	0.0155
pval	0.271	0.798	0.00181	0.00471	0.970	0.874	0.226	0.000605

Robust standard errors in parentheses

^{***} p_i0.01, ** p_i0.05, * p_i0.1

[▶] Back to Results

Incumbents Agenda

Table: Audits on Shares - Incumbents

	(1) Bureaucratic	(2) Social	(3) Health	(4) Urban	(5) Economy	(6) Crime	(7) count	(8) overlapa
Audited	0.010	-0.023	-0.019	-0.004	0.002	-0.000	66.836	0.012*
	(0.007)	(0.020)	(0.011)	(0.010)	(0.019)	(0.003)	(264.176)	(0.007)
corrup_au	-0.000	-0.014	0.016	0.013	-0.021	-0.009	-109.060	0.005
·	(0.016)	(0.025)	(0.020)	(0.022)	(0.024)	(0.013)	(510.371)	(0.011)
corr	-0.002	-0.004	0.000	-0.007	0.023	0.008	133.891	-0.018
	(0.017)	(0.029)	(0.016)	(0.022)	(0.019)	(0.012)	(706.177)	(0.013)
Observations	257	257	257	257	257	257	257	248
R-squared	0.225	0.165	0.227	0.368	0.213	0.168	0.788	0.846
\$\beta_0 + \beta_1\$	0.00955	-0.0371	-0.00298	0.00843	-0.0194	-0.00957	-42.22	0.0172
pval	0.553	0.0124	0.854	0.708	0.264	0.475	0.920	0.0270

Robust standard errors in parentheses

^{***} pi0.01, ** pi0.05, * pi0.1

[▶] Back to Results

Challengers Agenda, Cases on same Area

Table: Audits on Shares - Challengers

	(1)	(2)	(3)	(4)	(5)	(6)
VARIABLES	Bureaucratic	Social	Health	Urban	Economy	Crime
Audited	-0.014**	0.007	0.012*	0.009	0.011	-0.004*
	(0.007)	(0.016)	(0.006)	(800.0)	(0.008)	(0.002)
corrup_au	0.016	0.012	0.011	0.001	0.009	0.006
	(0.016)	(0.019)	(0.014)	(0.007)	(0.013)	(0.007)
corr		-0.018	-0.001		0.007	
		(0.016)	(0.012)		(0.013)	
Observations	474	474	474	474	474	474
R-squared	0.117	0.136	0.207	0.183	0.146	0.169
\$\beta_0 + \beta_1\$	0.00178	0.0190	0.0235	0.0105	0.0198	0.00247
pval	0.928	0.184	0.0378	0.255	0.0684	0.731

Robust standard errors in parentheses *** pi0.01, ** pi0.05, * pi0.1

[▶] Back to Results

Challengers Agenda, Cases on same Area

Table: Audits on Shares - Incumbents

	(1) Bureaucratic	(2) Social	(3) Health	(4) Urban	(5) Economy	(6) Crime	(7) count	(8) overlapa
Adiad	0.010	0.002	0.010	0.004	0.000	0.000	66.026	0.010*
Audited	0.010 (0.007)	-0.023 (0.020)	-0.019 (0.011)	-0.004 (0.010)	0.002 (0.019)	-0.000 (0.003)	66.836 (264.176)	0.012*
corrup_au	-0.000	-0.014	0.016	0.013	-0.021	-0.009	-109.060	0.005
	(0.016)	(0.025)	(0.020)	(0.022)	(0.024)	(0.013)	(510.371)	(0.011)
corr	-0.002	-0.004	0.000	-0.007	0.023	0.008	133.891	-0.018
	(0.017)	(0.029)	(0.016)	(0.022)	(0.019)	(0.012)	(706.177)	(0.013)
Observations	257	257	257	257	257	257	257	248
R-squared	0.225	0.165	0.227	0.368	0.213	0.168	0.788	0.846
\$\beta_0 + \beta_1\$	0.00955	-0.0371	-0.00298	0.00843	-0.0194	-0.00957	-42.22	0.0172
pval	0.553	0.0124	0.854	0.708	0.264	0.475	0.920	0.0270

Robust standard errors in parentheses

^{***} pj0.01, ** pj0.05, * pj0.1

[▶] Back to Results

Political Positioning - Challengers

Table: Effect of the Audit on Political Positioning

	(1)	(2)	(3) partisan_prob	
VARIABLES	Standardized values of populis	extremeness_med		
Audited	-0.301**	-0.661**	-0.254	
	(0.138)	(0.244)	(0.266)	
corrup_au	0.388**	0.348	0.194	
	(0.154)	(0.465)	(0.611)	
corr	-0.279***	-0.026	0.105	
	(0.110)	(0.368)	(0.630)	
Observations	474	474	422	
R-squared	0.134	0.154	0.126	
$\Delta_0 + \beta_1$	0.0864	-0.313	-0.0599	
pval	0.569	0.546	0.894	

Robust standard errors in parentheses *** p_i0.01, ** p_i0.05, * p_i0.1

[▶] Back to Results 3 ▶ Back to Results 4

Political Positioning - Incumbents

Table: Effect of the Audit on Political Positioning

	(1)	(2)	(3) partisan_prob	
VARIABLES	Standardized values of populis	extremeness_med		
Audited	0.063	0.914*	0.781	
	(0.096)	(0.520)	(0.657)	
corrup_au	0.273	-1.466*	-1.881*	
	(0.170)	(0.721)	(1.048)	
corr	-0.322	1.233*	1.067	
	(0.206)	(0.628)	(1.092)	
Observations	257	254	238	
R-squared	0.283	0.157	0.148	
$\frac{1}{\text{beta}_0} + \text{beta}_1$	0.336	-0.552	-1.100	
pval	0.0298	0.430	0.302	

Robust standard errors in parentheses

^{***} pi0.01, ** pi0.05, * pi0.1

▶ Back to Results 3 ▶ Back to Results 4