

Electoral Risk and Vote Buying, Introducing Prospect Theory in the Experimental Study of Clientelism

HECTOR BAHAMONDE ^{*1} and

ANDREA CANALES ^{†2}

¹Senior Researcher, University of Turku, Finland

²Assistant Professor, O'Higgins University, Chile

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^{*}hibano@utu.fi; www.HectorBahamonde.com.

[†]andrea.canales@uoh.cl; <http://sites.google.com/view/andrea-canales-g>.

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Abstract

Leveraging on the expected utility theory framework, most research asserts that parties in need of securing electoral support invest in vote buying. We consider this framework is limited in a number of ways. First, it assumes that losses and gains affect party's decision-making process in a comparable way—i.e., winning elections feels good as losing one hurts. Second, it assumes that the decision-making process of clientelist political parties focuses only on incremental outcomes while overlooking prior outcomes. Whether these assumptions hold is very important for understanding why parties buy votes. By introducing prospect theory in the clientelism literature, we hypothesize that parties are risk averse in the domain of gains and risk-seeking in the domain of losses—i.e., losing an election hurts more than winning an election pleases. This explains why clientelism is most likely when parties are probable winners or have experienced important losses in the past. Unfortunately, the expected utility theory (wrongly) predicts that under these scenarios clientelism should not occur. After formalizing a theory of vote buying and vote selling within the expected utility theory, we tested it in the lab by designing an economic experiment. The voting experiment was carefully designed to capture different domains of gains/losses as well as varying reference points. Exploiting these novel experimental data, we show that prospect theory provides a better explanation of clientelism than do other theories based on the expected-utility theory. As the statistical analyses suggest, because of risk-seeking with respect to losses, experimental subjects adopt a more risky alternative buying votes in a way that is unpredicted by a standard expected-value calculations.

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I. PARTIES WITH A GAMBLING PROBLEM: VOTE BUYING AS A RISKY YET PERSISTENT STRATEGY

Vote buying is a very risky strategy.¹ First, it is illegal.² Buying votes requires extra care to avoid both reputational costs and legal issues. For instance, due to stigma associated with vote buying, clientelist political parties might risk electoral support from the wealthy (Weitz-Shapiro 2012) or from society in general (González-Ocantos, Kiewiet de Jonge, and Nickerson 2014). Second, vote choices are secret, thus preventing parties from effective monitoring and enforcing (Nichter 2008). Even in developing contexts such as Africa (Wantchekon 2003; Vicente 2014) and Latin America (Hidalgo and Nichter 2015; Oliveros 2019; Murillo, Oliveros, and Zarazaga 2021), voters might accept the private benefit but then secretly vote for another party (Stokes 2005; Nichter 2008; Szwarcberg 2013; González-Ocantos, Kiewiet de Jonge, and Nickerson 2014; Vicente 2014). In fact, since clientelism may also work even with low levels of enforcement and monitoring (Hicken and Nathan 2020), investments in clientelism are always done in contexts of very high risk.

If clientelism is risky (Szwarcberg 2013, p. 43), expensive (Zarazaga 2014, p. 35) and uncertain (M. Rueda 2017), *How do political parties allocate scarce resources efficiently, targeting the right clients, thus preventing waste?* In other words, *Do political parties buy votes to reassure electoral loyalties (core voters) or to flip voters (swing voters)?*

While these are important questions as they speak about party’s decision-making process in risky contexts, unfortunately, the literature provides conflicting answers. In fact, Carlin and Moseley (2015, p. 14) state that “our knowledge of who parties target remains incomplete.” On the one hand, Cox and McCubbins (1986) and Zarazaga (2016, p. 7) explain that since constituencies are well known to clientelist parties, they allocate resources to core voters. On the other hand, Lindbeck and Weibull (1987), Dixit and Londregan (1996), and Stokes (2005) argue that since allocating resources to individuals who *ex-ante* vote for the party is a waste, parties target swing voters. Others who have contributed to this debate explain that clientelist parties “may simultaneously target both swing and core groups of voters” (Albertus 2013, p. 1083), while in a similar vein Diaz-Cayeros (2008, p. 148) explains that long-lasting hegemonic parties (such as the PRI in Mexico) seek “to prevent core voters from defecting in the future,” but newly elected incumbents in need of forging a

¹Vote buying is defined as the distribution of rewards during elections in contingent exchange for vote choices (Nichter 2014, p. 316).

²Bahamonde (2020) explains that in the United States vote buying was illegal as early as the 1700s.

new majority coalition target swing voters.

This paper posits that these conflicting views about clientelist targeting originate in the wrong understanding about the party’s decision-making process under risk implicit in the expected utility theory, as formalized by Neumann and Morgenstern (1947).³ Leveraging on the expected utility theory framework, most research asserts that parties in need of securing electoral support invest in vote buying. We consider this framework is limited in a number of ways. First, it assumes that losses and gains affect party’s decision-making process in a comparable way—i.e., winning elections feels good as losing one hurts. Second, it assumes that the decision-making process of clientelist political parties focuses only on incremental outcomes while overlooking prior outcomes. Whether these assumptions hold is very important for understanding why parties buy votes. By introducing prospect theory in the clientelism literature, we hypothesize that parties are risk averse in the domain of gains and risk-seeking in the domain of losses—i.e., losing an election hurts more than winning an election pleases. This explains why clientelism is most likely when parties are probable winners or have experienced important losses in the past. Unfortunately, the expected utility theory (wrongly) predicts that under these scenarios clientelism should not occur. After formalizing a theory of vote buying and vote selling within the expected utility theory, we tested it in the lab by designing an economic experiment. The voting experiment was carefully designed to capture different domains of gains/losses as well as varying reference points. Exploiting these novel experimental data, we show that prospect theory provides a better explanation of clientelism than do other theories based on the expected-utility theory. As the statistical analyses suggest, because of risk-seeking with respect to losses, experimental subjects adopt a more risky alternative buying votes in a way that is unpredicted by a standard expected-value calculations.

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proceeds as
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II. THE UNEXPECTED FINDINGS OF THE EXPECTED UTILITY THEORY

As its core, the expected utility theory considers that the value of an outcome is equal to its payoff times its probability, and that agents choose the option with the highest weighted sum (McDermott 1998, p. 15, Levy 1992a, p. 173, Levy 1997, p. 88). Importantly, it is commonly assumed that all political agents obey the maxims of consistency and coherence leading to the maximization of utility

³For the purposes of this paper, I focus exclusively on quantitative research. Just to name a few important qualitative contributions who are not necessarily framed in the EUT paradigm, see Scott (1972), Auyero (2000) and Szwarberg (2013).

(Quattrone and Tversky 1988, p. 719).

Since the expected utility theory (EUT) “was one of the first theories of decision making under risk” (McDermott 1998, p. 15), EUT has dominated political science for the most part (McDermott 2004, p. 289), and the vote buying literature has been no exception. Just to name a few examples, Nichter (2008) used game-theoretical techniques to introduce the concept of “turnout buying,” suggesting that parties deliver private benefits even when monitoring is absent. Gans-Morse, Mazzuca, and Nichter (2013) offer a formal model to explain that clientelist parties offer a mix four clientelist strategies during elections (vote buying, turnout buying, abstention buying, and double persuasion), while M. R. Rueda (2015, p. 428) “present[s] a model of vote buying in which a broker sustains bribed voters’ compliance by conditioning future bribes.” Similarly, Gallego (2014, p. 401) “presents a game-theoretical model of political clientelism in which a candidate disciplines a majority of voters through the promise of a future flow of benefit.”

We contest this traditional approach focused on “gains” by shifting the attention to losses and context-dependent decision-making processes. It actually seems interesting that most vote-buying theories are framed within the EUT, without even declaring it, as if it were the default or go-to framework to build theories upon. It needs to be clarified that the root of the problem is *not* methodological (i.e., the use of game theory), but analytical, that is, the assumed decision-making process under risk present in the expected utility theory. For instance, electoral theories based on the EUT contend that voters see elections as “investments” (Downs 1957; Bassi, Morton, and Williams 2011), a notion that also holds for clientelist political parties under contexts of risk (Diaz-Cayeros 2008). In this paper we challenge this approach by offering an alternative theory of the political economy of vote buying but taking prospect theory as a starting point (Kahneman and Tversky 1979).

Theories based on the EUT contain descriptions of political behaviors that are “unrealistic” (Aldrich and Lupia 2011, p. 124). In effect, a large body of experimental research finds that the behavioral expectations under risk do not comport with the EUT (Battalio, Kagel, and Jiranyakul 1990, p. 25, Mercer 2005, p. 1). As a matter of fact, Bernoulli—the forefather of the EUT (Fishburn 1977)—“was the first to see [...] that people would not always bet solely on the basis of the expected value of a game” (McDermott 1998, pp. 15–16). From a decision-making standpoint, many find that “the assumptions underlying the classical theory of risky choice are systematically violated” (Quattrone and Tversky 1988, p. 719) and that both “variance and semivariance ideas of risk [...]

have been shown to be inconsistent with von Neumann axioms” (March and Shapira 1987, p. 1405). From an empirical perspective, there seems to be a strong consensus on the idea that “expected utility theory [...] continually failed empirically” (Vis 2011, p. 335), while others have explained that “[e]xperiments [...] have revealed that actual behavior and decisions frequently deviate from the neoclassical predictions” (Fatas, Neugebauer, and Tamborero 2007, p. 167), and that in general “people systematically violate the predictions of expected utility theory” (Barberis 2013, p. 173).

Theories of vote buying based on the EUT have not performed particularly better either. There are several examples that point out to a situation where vote buying rather seems a waste, or at least, where clientelist parties seem to “misbehave.” For instance, González-Ocantos, Jonge, et al. (2012, pp. 205–206) report that in the 2008 Nicaraguan elections, the incumbent party enjoyed 40% of the electoral support, and yet, 24% of registered voters were offered a clientelist gift in an election that “[was] not heavily contested.” Why would a party buy such a large amount of votes in a non-contested election, particularly, in a context with such low degrees of electoral risks?

“It argues that parties enjoy wide discretion to target clientelistic payoffs to inexpensive voters in their strongholds, but that head-to-head competition compels them to bid for more expensive voters.” Corstange 2018

Vote buying is an electoral technique which .

define

2. The clientelism literature focuses on utility maximization theory.
3. This theory provides several explanations for vote buying, and the way in which political parties cope with risks associated with vote buying. (Nichter, Cox, Stokes, Auyero)

III. PROSPECT THEORY AND ITS IMPLICATIONS FOR CLIENTELISM: WHEN LOSSES LOOM LARGER THAN GAINS

Kahneman and Tversky (1979, p. 279)

(Downs 1957) the value of voting decreases as the size of the electorate increases.

Levy (1992a), Levy (1992b), Levy (1997), McDermott (1998), McDermott (2004), Mercer (2005), Mercer (2005), Vis (2011), Barberis (2013), Linde and Vis (2017), and Vieider and Vis (2019) provide an excellent overview of prospect theory.

IV. FORMAL MODEL

We consider an electorate of n voters. Voters vote for a leader to implement a common policy γ from the set $\Gamma = \{1, 2, \dots, 100\}$. Each citizen i has an ideal point x_i which is an *iid* draw from a uniform distribution Γ . When policy γ is implemented, payoffs of citizen i are given by $u(D, x_i, \gamma) = D - |x_i - \gamma|$, where D represents completar acá. This payoff can be incremented by transferences from both parties to voter i .

In this election, there are two candidates. One “left-wing” party and one “right-wing” party. The left-wing (right-wing) candidate represents a policy γ_L (γ_R) which is an *iid* draw from a uniform distribution over $\{1, \dots, 50\}$ ($\{51, \dots, 100\}$). The location of this policy give us the number of voters n_L leaning towards the left-wing candidate, while the number of voters leaning towards the right-wing party is given by $n_L + n_R = n$. While we consider that voters are attached to an ideological continuum, we do so with the sole purpose of modeling preferences—both formally and experimentally.⁴

Moving forward, both parties negotiate with only one of these n voters. That voter is randomly selected from the total population n . Observe that the higher the n , the lower the representation in the election of this voter. That is, a larger n necessarily implies that every individual electoral choice matters less. However, if n is small, negotiating with this voter may be more attractive to political parties. This is because negotiating with a large number of voters is costly. We assume that each party has a budget (B) that they can use to buy votes. If a party decides not to negotiate with the voter (or the voter does not accept the offer), the party keeps this budget. The profits of party i is given by,

$$\pi_i(W, e_i, s_i) = W \cdot e_i + (1 - s_i \cdot a_j) \cdot B$$

where W ($W \geq B$) is a constant that represents how much each party values winning the election, $e_i = 1$ if party i wins the election, 0 otherwise, s_i is the fraction of B that the party offers to voter j who can accept the offer ($a_j = 1$) or not ($a_j = 0$). We study two versions of this party-voter

⁴Ultimately, experimental subjects are not told anything about ideology. They only observe that there are a number of “points” associated with the victory of party A or party B. In this sense, voters lean (“ideologically”) towards the party that gives them more points.

interaction. One is where both parties make simultaneous offers to the voter, and she decides whether to accept the offer (vote-buying case). Another one is where the voter can make private offers to both parties, and then the party decides if to pay or not for that voter's vote (vote-selling case).

The timing of the game is as follows: at the beginning of the game n voters and two political parties are randomly located on their respective ideal points: voters along Γ , the "left-wing" candidate along $\{1, \dots, 50\}$, and the "right-wing" candidate on $\{51, \dots, 100\}$. All locations are public information, as well as every party's budget B , the total number of voters (n) and the number of supporters of each party (n_L and n_R). What follows then, depends on the specific game. On the vote-buying case, each party simultaneously decides if making an offer to the voter. If a party decides to negotiate with the voter, privately offers him to buy his vote (i.e. accept the offer and vote for the party). Then the voter decides if to take the offer, or which one accept if he receives two offers. If he accepts an offer, he should vote for that candidate.⁵ On the vote-selling case, the voter may privately propose a certain amount to each party in exchange for her vote. Then the parties decide if to pay or not the offer. The voter then decides which one to accept, if any. In this case, the voter offers to one or both parties, and each proposed amount might be different.

I. Equilibrium in Vote-Buying Case

In this case, both parties can offer certain amount in exchange for electoral support. Note that parties only have incentives to negotiate with a voter if he is the pivotal voter. That means that $|n_L - n_R| \leq 1$, and that voter i supports the ex-ante winner of the election ($i \in \max\{n_L, n_R\}$). The voter prefers the party closer to her ideal point. If both parties are located at the same distance, the voter is indifferent. Denote by $i^* \in \{L, R\}$ the preferred party of the voter, and $-i^*$ the other party.

Note that, naturally, both parties want to make different offers. If the voter is pivotal, the less preferred party has incentives to offer him a certain amount m_{-i^*} such that the he perceives more utility voting for that party rather than voting for the opposite party, that is:

⁵It is important to consider that to simplify the game (and the experiment), accepting the offer necessarily implies compliance. That is, accepting the offer means voting for the party the voter accepted the offer from. We leave for future research the case where the voter may defect.

$$\begin{aligned}
m_{-i^*} &\geq (D - |x_{i^*} - \gamma_{i^*}|) - (D - |x_{i^*} - \gamma_{-i^*}|) \\
&= |x_{i^*} - \gamma_{-i^*}| - |x_{i^*} - \gamma_{i^*}|.
\end{aligned}$$

Parties expect winning the election but have limited budgets. Hence, they want to win the election at a minimum cost. If party $-i^*$ offers the voter $m_{-i^*} = |x_{i^*} - \gamma_{-i^*}| - |x_{i^*} - \gamma_{i^*}|$, he will be indifferent between voting for party i^* or party $-i^*$. Both offers $m_{i^*} = 0$ and $m_{-i^*} = |x_{i^*} - \gamma_{-i^*}| - |x_{i^*} - \gamma_{i^*}|$ are the minimum amount, but enough to make the pivotal voter indifferent between both political parties. Indifference gives the party some electoral advantage of winning of the election. Voter indifference gives two possible Nash equilibria. In one equilibrium the voter rejects the offer and votes for i^* . In the other equilibrium, the voter accepts the offer and the elected party is $-i^*$. If individuals are utility maximizers, they should be indifferent between these two equilibria.

II. Equilibrium in Vote-Selling Case

In the case that the voter can set the a price of his vote, he may negotiate with one or both parties setting the price that he is willing to accept in exchanging of voting for that party. In this setting, the voter has incentives to set the highest price each party can pay. In our model this is given by B (which is public knowledge). When the voter is pivotal, he may swing towards party $-i^*$ only if the budget is big enough to compensate what he loses when voting for his less preferred policy ($B > |x_{i^*} - \gamma_{-i^*}| - |x_{i^*} - \gamma_{i^*}|$). When the voter decides to negotiate with both parties, and both accept to pay the price set by him, he chooses one offer, voting for his preferred political party i^* .

Since the parties-voter negotiation does not change the electoral outcome, vote-selling is not efficient to parties. When a party wins the election due to vote-selling, the party's payoff is $\pi_i(W, 1, 1) = W$, while the loser party obtains $\pi_i(W, 0, 0) = B$. If the pivotal voter decides to negotiate with both political forces, parties i^* and $-i^*$ have to decide if accept to pay B to the voter. This strategic situation is represented as follows,⁶

⁶This situation is considering that, if both parties accept to pay the price set by the voter, he prefers the party i^* .

		$-i^*$	
		Accept	Reject
i^*	Accept	W, B	W, B
	Reject	B, W	$W + B, B$

Thus, we can observe that there exists an unique equilibrium where both parties are willing to pay B to the voter.

V. EXPERIMENTAL DESIGN

Building on the game theory model, a lab economic experiment was designed. The experiment was conducted at O’Higgins University and Centre for Experimental Social Sciences (CESS) of *Universidad de Santiago*, Chile. Subjects received a minimum of \$5,000 Chilean pesos. The maximum depended on the quality of individual decisions. [summary statistics here](#). The basic flow is depicted in [Figure 1](#).

The experiment has two parts, with four stages each. The first part is the vote-buying portion. During the first stage, participants are assigned a role at random. They can be either *party A*, *party B*, or *voter*. Voters are assigned at random an “ideological” position. That is, voters receive a certain amount of points (at random) depending on whether party A or B wins the election. For instance, if party A wins election, a voter might receive 2,400 points, whereas if party B wins the election, the voter might receive 200 points. It is in this sense that the voter is “ideologically” closer to party A. The substantive correlate is that voters perceive some utility when, for instance, their preferred fiscal policies are implemented. During the first stage, both parties receive different endowments too. The idea is to reflect the fact that some parties are wealthier than others. Note that voters receive zero endowments. The clientelism literature is consistent in that both poor and rich voters are prone to receive clientelist offerings (Bahamonde [2018](#)).

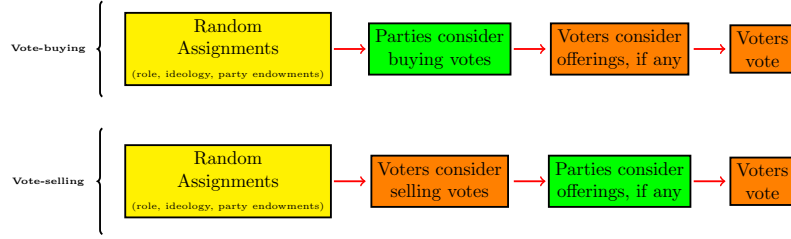


Figure 1: Experimental Flow.

Note: *Note here.*

During the second stage of the first part, parties decide whether to go out and buy votes by making clientelist offerings. Experimental subjects playing the party role enter an amount of points, which ranges from zero to the maximum assigned budget. They are told that offering zero means they do not want to buy votes. Importantly, both budgets (for party A and B) are the same. However, given that the voter-party distance is assigned at random, both parties have *relative* “different” budgets.

In the third stage voters evaluate whether to take that offer or not. If the party decided that it did not want to make an offer at that time, the voter is told that the party did not make an offer. Voters are told that accepting the offer necessarily implies voting for that party (no defecting in this experimental design). In this regard, the third and fourth stage are in reality one stage.

The second part is the vote-selling portion of the experiment. This part is run during the same experimental session, but loading a separate **Ztree** program. Right after the first part is completed, experimental subjects are then asked to continue with the study.

The second part is exactly the same, except that this time voters are first-players: they get to offer parties an amount of points, and then, parties get to decide whether to take or reject that offer. Note that the experimental currency are “points,” which later translated into actual money.⁷

I. Expected Comparative Statics

This experiment randomizes the voter’s and party’s “ideological” positions, party endowments,⁸ and whether the voter is pivotal or not (whether the voters represents $\frac{1}{3}$ or $\frac{1}{5}$ of the electorate). There is one static event, namely, the order of the experiment (the vote-buying part goes first, while the

⁷Particularly, Chilean pesos.

⁸As explained above, not directly, but by randomizing the ideological position of voters. By doing so, we are able to manipulate the *relative* purchasing power of every party.

vote-selling part goes second). This aspect is presented to all experimental subjects (both roles) before the second stage (both experimental parts). Exploiting this experimental data, we intend to shed light on the conditions that foster vote-buying/selling. Particularly, we are interested in analyzing the next aspects of a clientelist transaction.

Ideology. Since Downs (1957), spatial theorist have theorized for a long time about the role of political ideology on different electoral aspects (see Enelow and Hinich (1990) for a review). Unfortunately, one of the main criticisms of the Downsian paradigm, is its unidimensionality. That is, the big assumption of voters being concerned only about the spatial distance between their policy preferences and the ones of the available parties. Acknowledging this problem, Adams, III, and Grofman (2005, p. 20) introduce “non-policy” factors. Unfortunately, these factors are mainly socio-demographics traits, such as race, gender, income, among others. While it is true that these traits are not strictly policy-based, they are highly correlated with them. In this paper we try to advance the literature by incorporating clientelism, a non-policy issue (Kitschelt and Wilkinson 2006).

Our experimental design allows us to explore the tipping point at which voters stop caring about ideology. Since the voter-party spatial distance is randomized, our design sheds some light on the elasticity of ideology, clarifying *when* voters renounce to politics (and start selling their votes). Hence, by offering voters a non-policy choice (selling one’s vote), we complement the spatial literature, ultimately, by focusing on the question of democratic values too.

Competitiveness. The degree in which elections are contested or not has an important role in explaining clientelism. Competitive authoritarian regimes (Levitsky and Way 2010) survive not due to electoral fraud, but because of the incumbent’s capacity to mobilize a large mass of supporters, discouraging likely opposers (Magaloni 2008). Unfortunately, we still do not know at which point likely opposers feel discouraged, and abandon the electoral race. Since the experiment also randomizes the number of likely voters, we will be able to observe at which point is efficient to buy votes (when needed), and at which point is a waste.

Endowments. For the Brazilian case, Bahamonde (2018) explains that parties with access to more resources are also able to buy more expensive goods, even targeting the wealthy. However, Szwarcberg (2013, p. 32) finds that parties with access to material resources does not necessarily

imply clientelist targeting. The literature then has not been really able to explain the relationship between having resources and vote-buying: *Do parties with more resources engage in vote-buying?*

Targeting. *Who do political parties target? Swing voters or core supporters?*

Voter’s Bargaining Power. By manipulating the relative importance of a voter, we will be able to answer the following question: *Does block voting (i.e. when unions or other civic groups vote coordinately for the same candidate) increase the selling price?*

Sequence. By considering two sequences, one where the party gets to be the first player, and one where the voter does, *Does the order matter?*

VI. STATISTICAL ANALYSES

Test

	OLS	Logit
	Amount of Vote-Buying Offer	Competitive Vote-Buying Offer
(Intercept)	678.24 (1.38)	−0.32 (1.01)
vote.intention.party	152.03 (1.90)	
points.cumul.delta	−0.10** (−3.04)	−0.00 (0.00)
ideo.distance	−0.20 (−0.07)	−0.00 (0.01)
budget	0.03 (0.07)	−0.00 (0.00)
R ²	0.71	
Adj. R ²	−0.05	
Num. obs.	136	136
AIC		186.58
BIC		198.23
Log Likelihood		−89.29
Deviance		178.58

*** $p < 0.001$; ** $p < 0.01$; * $p < 0.05$; ^{cdot} $p < 0.1$. Robust standard errors in parentheses. OLS model with fixed effects (parameteres omitted).

Table 2: *Statistical models*

	role	variable	n	min	max	median	iqr	mean	sd	se	ci
1	Partido A	left.right	66	1	10	3	4	4	2	0	1
2	Partido B	left.right	66	1	10	4	3	4	2	0	1
3	votantes	left.right	68	1	10	3	3	4	2	0	1
4	Partido A	male	66	0	1	0	1	0	0	0	0
5	Partido B	male	66	0	1	0	1	0	0	0	0
6	votantes	male	68	0	1	0	1	0	0	0	0
7	Partido A	party.id	66	2	9	9	0	8	2	0	0
8	Partido B	party.id	66	1	9	9	0	9	1	0	0
9	votantes	party.id	68	1	9	9	0	8	2	0	0
10	Partido A	party.like	66	0	1	0	1	0	0	0	0
11	Partido B	party.like	66	0	1	0	0	0	0	0	0
12	votantes	party.like	68	0	1	0	0	0	0	0	0
13	Partido A	payoff	73	633	4224	2630	674	2621	670	78	156
14	Partido B	payoff	72	1148	4062	2592	710	2607	665	78	156
15	votantes	payoff	75	633	4224	2674	836	2664	697	80	160
16	Partido A	salary.enough	66	1	4	2	0	2	1	0	0
17	Partido B	salary.enough	66	1	4	2	1	2	1	0	0
18	votantes	salary.enough	68	1	3	2	0	2	1	0	0
19	Partido A	vote.last.election	66	0	1	1	0	1	0	0	0
20	Partido B	vote.last.election	66	0	1	1	0	1	0	0	0
21	votantes	vote.last.election	68	0	1	1	0	1	0	0	0
22	Partido A	vote.next.election	66	0	1	1	0	1	0	0	0
23	Partido B	vote.next.election	66	0	1	1	0	1	0	0	0
24	votantes	vote.next.election	68	0	1	1	0	1	0	0	0

Table 1: *Summary Statistics*

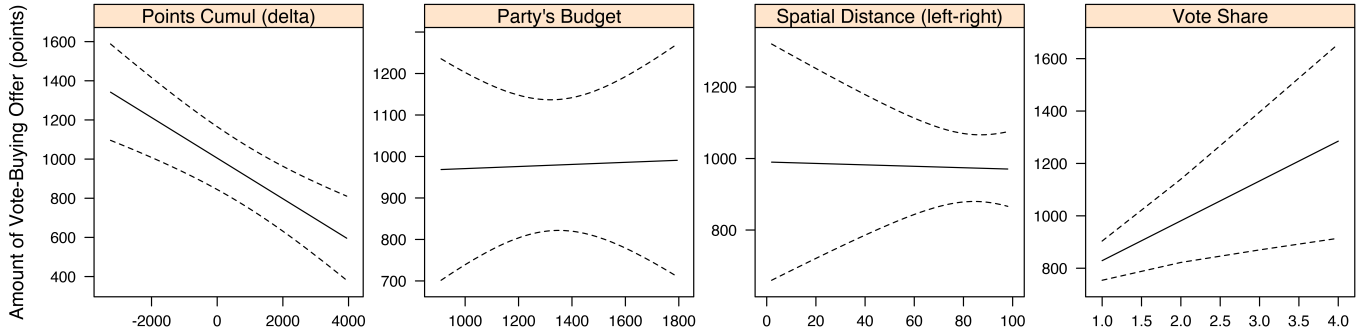


Figure 2: *Predicted Values of Vote-Buying Offer.*

Note: Based on the OLS estimates in Table 2, the figure shows the predicted values of the offer made by the party expressed in experimental points. Substantively, the figure shows that experimental subjects try to recover losses in the short run by spending more on vote-buying (panel 1) and avoid losses by over-securing electoral support even in favorable contexts (panel 4). However, subjects do not consider their own budgets nor do they take into account ideological/spatial distance with respect to their constituencies when making decisions (panel 2 and 3).

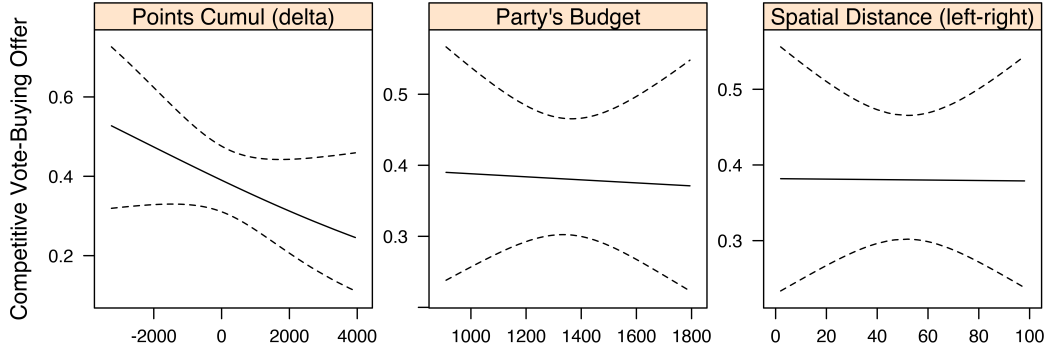


Figure 3: *Predicted Values of Competitive Vote-Buying Offer.*

Note: “Competitive vote buying” is when both parties try to buy someone’s vote at the same time. Having all players complete information, this strategy is more expensive and uncertain. Based on the MLE estimates in [Table 2](#), the figure shows the predicted values of whether parties engage in competitive vote buying strategies. Substantively, the figure shows that experimental subjects acting the “party” role engage in competitive vote buying when they try to recover losses in the short run by engaging in competitive vote buying (panel 1). However, subjects do not consider their own budgets nor their ideological/spatial distance with respect to their constituencies when making decisions (panel 3 and 4).

VII. DISCUSSION

Discussion

pending.

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