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

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First things first...

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Experimental Desi

tatistical Analyses

Discussion

Vote buying: distribution of private rewards to individuals during elections in exchange for electoral support (Nichter, 2014).



Motivation

Vote-Buying Literature Builds on the Wrong Framework

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Introduction

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- ? It's not clear why targeting core voters is not a waste.
- ? The role of past losses has been completely overlooked ("sunk cost fallacy").

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Statistical Analyse

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- Propose to re-think about how parties make decisions under risk (Prospect Theory).
- Empirics: we designed an economic lab experiment of vote buying.
- Results: Prospect Theory explains better parties' decision-making process in risky contexts.

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Vote-buying will be higher when parties...

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- Risk-aversion in the domain of gains:
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 - ✓ Deal with core voters (parties would hate to lose already acquired assets)
- Risk-seeking in the domain of losses.
 - √ Have experienced losses in the past (sunk costs).

Clientelism and the Expected Utility Theory

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- These assumptions have led to several empirical inconsistencies.
 - 1. Clientelist Targeting.
 - 2. Political Contestation.

The Problem: Clientelist Targeting

Not Clear Who Clientelist Parties Target

• Since constituencies are well known to clientelist parties, they allocate resources to **core voters**.

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waste, parties should target swing voters.

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• This is a *very* important question, yet the literature has failed to answer it.

Carlin and Moseley (2015).

The Problem: Political Contestation

Not Clear The Role of Political Contestation on Vote Buying

• The more contested an election, the more risks of losing the election, the more vote buying.

Scott (1972), Shefter (1977), Diaz-Cayeros (2008), Corstange (2018).

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• However, some find very high levels of vote-buying in **uncontested** elections.

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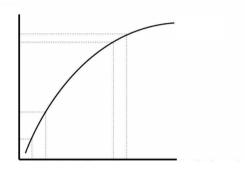
- However, some find very high levels of vote-buying in **uncontested** elections. Gonzalez-Ocantos, Jonge, et al. (2012).
- Why would a party buy such a massive amount of votes in a safe and uncontested election?

Changing the starting point

Wrong Understanding of Decision-Making Process under Risk

Change from EUT:

- Losses and gains affect in a comparable way.
- Parties focus only on absolute levels of utilities.



Changing the starting point

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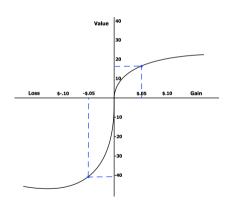
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To Prospect Theory:

Kahneman and Tversky (1979)

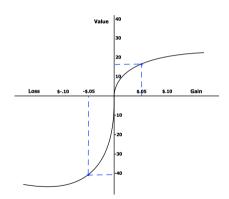
- 1. Reference dependence.
- 2. Value function.



Theory

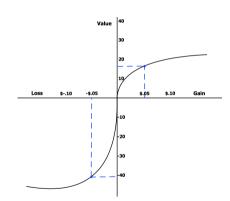
Prospect Theory

1. **Reference dependence**. Elements that influence decisions:

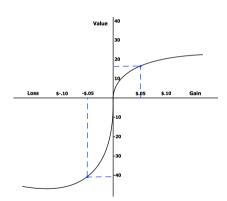


Prospect Theory

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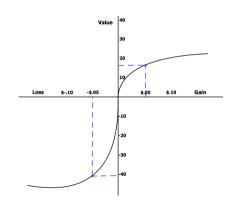
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 - changes of wealth, rather than final asset positions.



Prospect Theory

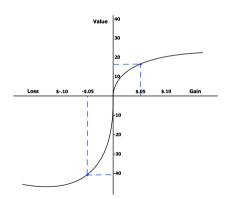
1. **Reference dependence**. Elements that influence decisions:

- context in which the decision-making processes take place.
- changes of wealth, rather than final asset positions.
- √ sunk costs do matter: loses are harder to accept.

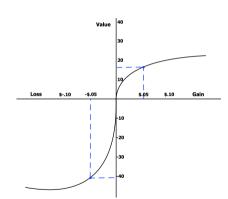


Prospect Theory

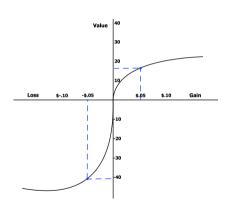
2. **Value function**. The asymmetrical curvature of the value function influences decisions:



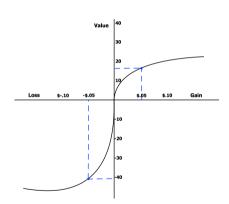
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- 2. **Value function**. The asymmetrical curvature of the value function influences decisions:
 - ✓ Individuals are risk-averse in the domain of gains.
 - ✓ Individuals are risk-acceptant in the domain of losses.
 - ✓ In simple, "loses loom larger than gains."



Prospect Theory: Implications for Vote Buying

- 1. Due to loss aversion parties will find intolerable the idea of losing the supporter base they already have.
 - ✓ Are probable winners.
 - √ When dealing with own supporters.

Prospect Theory: Implications for Vote Buying

- 1. Due to loss aversion parties will find intolerable the idea of losing the supporter base they already have.
 - ✓ Are probable winners.
 - When dealing with own supporters.
- 2. Since past loses alter the reference point, incumbents will buy more votes when they've spent/lost a lot in the past.
 - Sunk costs are high.

Setup

- The experiment was conducted in Chile (April/May 2021).
- O-tree (Z-tree). Fischbacher (2007).
- All participants were required to successfully complete two **practice rounds**.
- Every game was played between three people: two parties and one voter.
- All transactions were performed exchanging experimental "points." 1 point = \$0.42.
- 102 subjects were recruited.
- Each subject played the game three times (N = 306).
- In-between subjects experimental design.

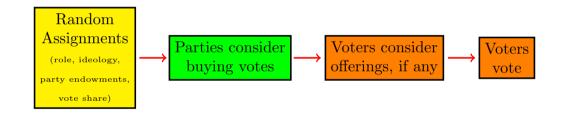
Treatments

- 1. Role: party A, party B or voter.
- 2. Voters: "ideological position" (points depending on whether party A or B wins the election). Points reflect "spatial" distance between the voter and both parties (continuum 1-100).
- 3. Parties: endowments (points to buy votes, if any).

But both parties receive the same endowment in the same game.

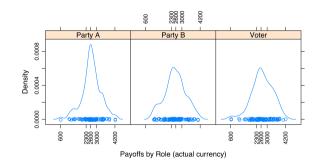
- 4. **Parties**: vote shares (number of votes each party *will* receive, excluding the "voter" participant.
- Every randomization was common knowledge.

Experimental Flow



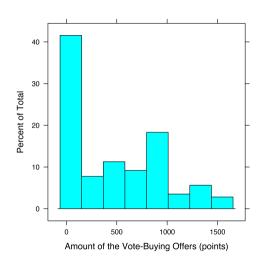
Payoffs

- Parties: payoffs depend on whether they are elected. If they spend points buying votes, that amount is discounted.
- Voters: payoffs depend on whether their party is elected, and on whether they sell their vote.



Dependent Variable and Hypotheses

- PT: parties focus on **loses** (hold on to what they "own").
 - 1. Buy more votes when parties are wining the election.
 - Buy more votes from core supporters (hurts more to lose closest voters).
 - Buy more votes when yesterday's costs are high (need to spend more to "break even").



Offer_i = β_0 + β_1 Vote Share_i+ $\beta_2\Delta$ Points Accumulated_i+ β_3 Spatial Distance_i+ β_4 Party Budget_i+ β_5 Pivotal Voter_i+ $\alpha_n + \epsilon_i$

Offer
$$_i = \beta_0 + \beta_1 \text{Vote Share}_i + \beta_2 \Delta \text{Points Accumulated}_i + \beta_3 \text{Spatial Distance}_i + \beta_4 \text{Party Budget}_i + \beta_5 \text{Pivotal Voter}_i + \alpha_n + \epsilon_i$$

• Dependent variable described.

Offer_i =
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• Number of certain votes each party.

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• Change in points respect to t-1 (prior round).

Offer_i =
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+
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• Distance from the voter (points).

Offer_i =
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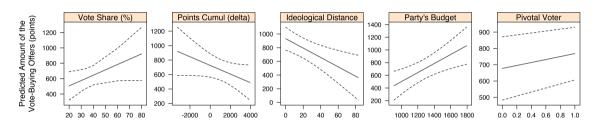
Party's budget (points).

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• Voter is pivotal.

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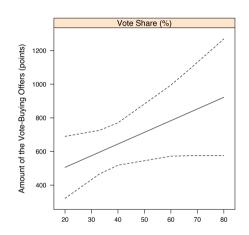
• Participant fixed effects.



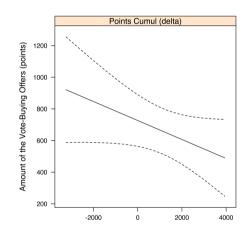
Overall, results conform with Prospect Theory.

 Parties are risk-averse in the domain of gains: due to loss aversion, parties buy more votes when they're likely winners (not losers).

Incumbents buy more votes to prevent a decline than to increasing gains.

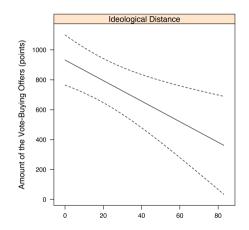


 Parties are risk-seeking in the domain of losses: unlike EUT, parties do consider sunk costs, buying more votes to compensate for past losses.

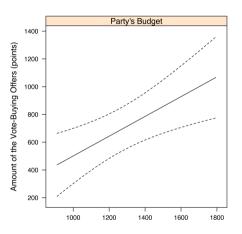


 Core/swing voters: Parties buy more votes at higher (not lower) prices from closest supporters.

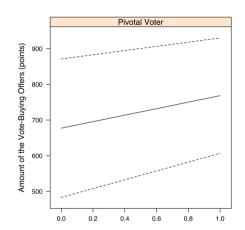
Risk aversion: It hurts more to lose **closest** supporters.



 Party budgets: Parties with larger budgets spend more on vote buying.



 Pivotal voters: don't cost more (against most of spatial theories of voting).



Wrapping Up

Main Takeaway

- Parties don't see vote buying in the typical "insurance" sense: parties don't buy more votes in tighter electoral races.
- Decision-makers are more concerned with preventing a decline than increasing gains.

- This paper identified three main gaps in the literature. We don't know,
 - 1. the rationale of clientelist targeting.
 - 2. the role of electoral contestation.
 - 3. the unstudied role of sunk costs.

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- We introduced **Prospect Theoru** in the vote-buying literature as an **alternative** way to understand decision-making under risk.

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- We introduced Prospect Theory in the vote-buying literature as an alternative way to understand decision-making under risk.
- To test this theory we designed an economic experiment of vote buying.
- PT explains better the gaps in the literature.

End

Thank you



- Paper (draft) available at www.HectorBahamonde.com.
- All feedback is welcomed!

Role	Variable	Ν	Min.	Max.	Median	Interquartile Range	Mean	Std. Dev.	Std. Error	Conf. Int.
Party A	Feel close to a political party	66	0	1	0	1	0	0	0	0
Party B	Feel close to a political party	66	0	1	0	0	0	0	0	0
Voter	Feel close to a political party	68	0	1	0	0	0	0	0	0
Party A	Left - Right	66	1	10	3	4	4	2	0	1
Party B	Left - Right	66	1	10	4	3	4	2	0	1
Voter	Left - Right	68	1	10	3	3	4	2	0	1
Party A	Male	66	0	1	0	1	0	0	0	0
Party B	Male	66	0	1	0	1	0	0	0	0
Voter	Male	68	0	1	0	1	0	0	0	0
Party A	Party identification	66	2	9	9	0	8	2	0	0
Party B	Party identification	66	1	9	9	0	9	1	0	0
Voter	Party identification	68	1	9	9	0	8	2	0	0
Party A	Payoff	73	633	4224	2630	674	2621	670	78	156
Party B	Payoff	72	1148	4062	2592	710	2607	665	78	156
Voter	Payoff	75	633	4224	2674	836	2664	697	80	160
Party A	Salary is enough	66	1	4	2	0	2	1	0	0
Party B	Salary is enough	66	1	4	2	1	2	1	0	0
Voter	Salary is enough	68	1	3	2	0	2	1	0	0
Party A	Vote in the next election	66	0	1	1	0	1	0	0	0
Party B	Vote in the next election	66	0	1	1	0	1	0	0	0
Voter	Vote in the next election	68	0	1	1	0	1	0	0	0
Party A	Voted in the last election	66	0	1	1	0	1	0	0	0
Party B	Voted in the last election	66	0	1	1	0	1	0	0	0
Voter	Voted in the last election	68	0	1	1	0	1	0	0	0

Table: Summary Statistics.

	Amount of the vote-Buying Offers
Intercept	-380.54
	(568.66)
Vote Share (%)	6.95
	(5.55)
Points Accumulated (delta)	-0.06
	(0.05)
Ideological Distance	-6.87*
-	(2.00)

OLS

> 0.71*(0.34)

91.16 (124.46)

0.66

142

(3.26)

Party Budget

Fixed effects parameteres omitted in table.

 R^2

Num. obs.

Pivotal Voter

***p < 0.001; **p < 0.01; *p < 0.05.

Robust standard errors in parentheses.