

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

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



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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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- **Motivate the problem:** vote buying literature is mostly based on the Expected Utility Theory (EUT) (von Neumann and Morgenstern).

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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.

# Argument

Vote-buying will be higher when parties...

- Risk-aversion in the domain of **gains**:
  - ✓ Are **wining** the election.
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**Vote-buying will be higher when parties...**

- Risk-aversion in the domain of **gains**:
  - ✓ Are **wining** the election.
  - ✓ Deal with their own supporters (parties would hate to lose already **acquired assets**)
- Risk-seeking in the domain of **losses**.
  - ✓ Have experienced **losses** in the past (sunk costs).

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

## Not Clear Who Clientelist Parties Target

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

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

Carlin and Moseley (2015).

# 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.

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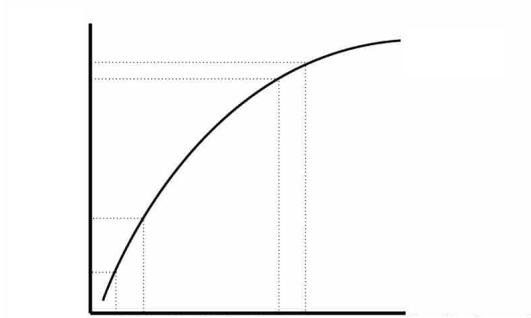
- Why would a party buy such a massive amount of votes in a safe and uncontested election?



# Wrong Understanding of Decision-Making Process under Risk

## Change from EUT:

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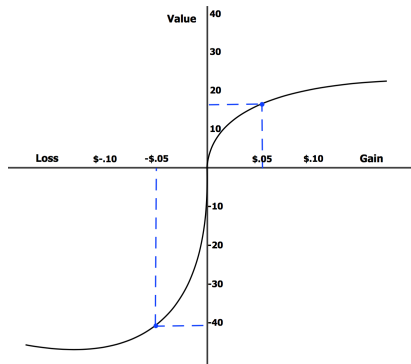
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## To Prospect Theory:

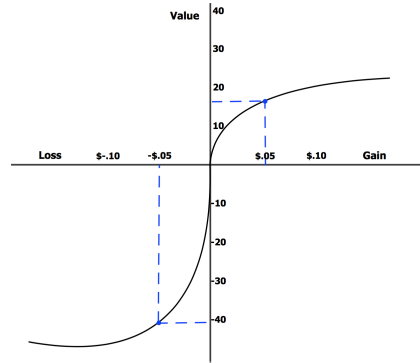
Kahneman and Tversky (1979)

1. Reference dependence.
2. Value function.



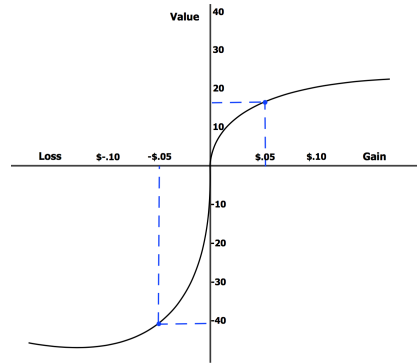
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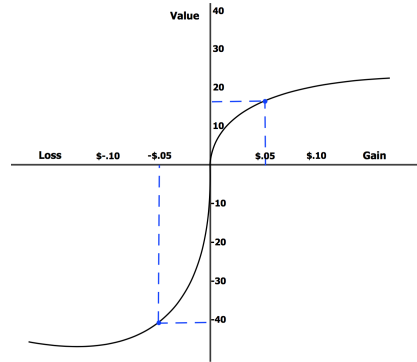
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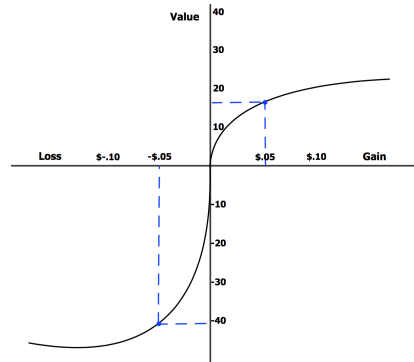
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  - ✓ **changes of wealth**, rather than final asset positions.



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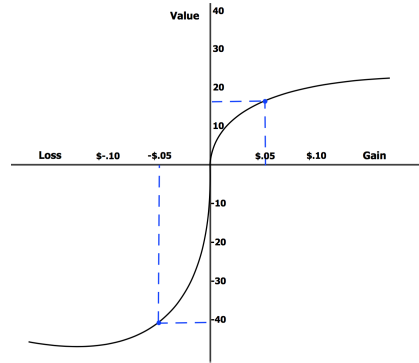
## 1. Reference dependence. Elements that influence decisions,

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



# Prospect Theory

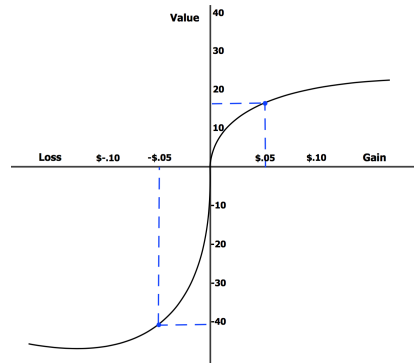
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- ✓ Individuals are **risk-averse** in the domain of **gains**.

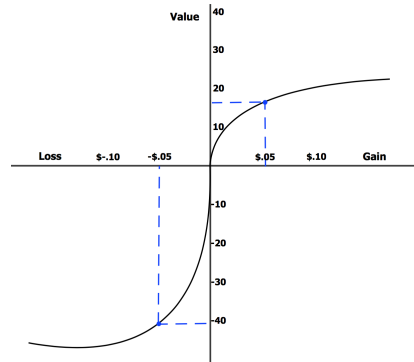




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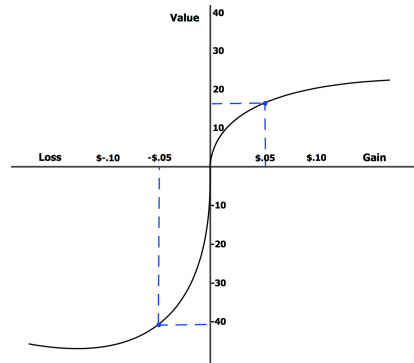
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- ✓ Individuals are **risk-averse** in the domain of **gains**.
- ✓ Individuals are **risk-acceptant** in the domain of **losses**.
- ✓ In simple, **losses loom larger than gains**.



## 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.
2. Since past losses alter the reference point, incumbents will buy more votes when they've spent/lost a lot in the past.
  - ✓ Sunk costs are high.

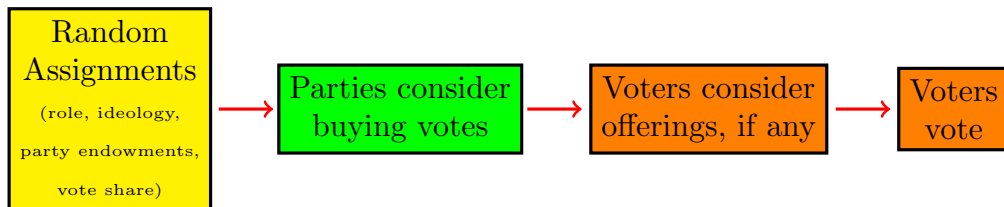
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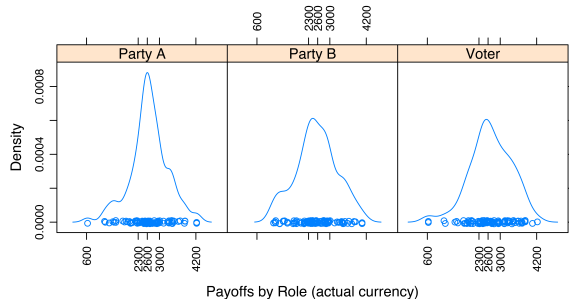
Decision-makers are more concerned with preventing a decline than increasing gains.

- The experiment was conducted in Chile (April/May 2021).
- 0-tree (Z-tree). Fischbacher 2007.
- All participants were required to successfully complete two practice rounds.
- Show-up fee of \$2,000 CLP ( $\approx 2.1\text{€}$ ).
- 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.

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.

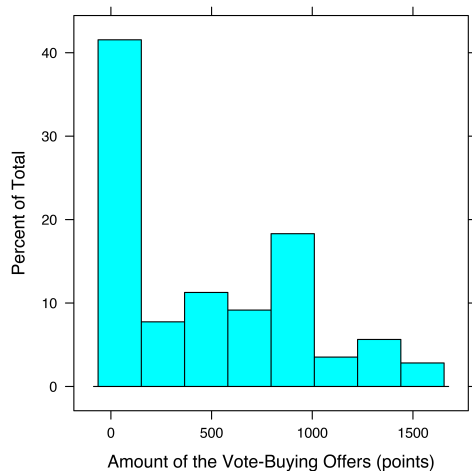


- **Parties:** payoffs depend on whether they are elected. If they spend points buying votes, that amount is discounted.
- **Voters:** payoffs depend on whether their party is elected, and on whether they sell their vote.





- EUT: offers go up when parties are **losing the election** (parties focus on **wins**).
- PT: parties focus on **loses** (hold on to what they “own”).
  1. Buy more votes when the parties are **wining** the election.
  2. Buy more votes from **core** supporters (hurts more to lose **closest** voters).
  3. Buy more votes when yesterday's costs are high (need to spend more to “*break even*”).



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

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- Dependent variable described.

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- Distance from the voter (points).

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- Party's budget (points).

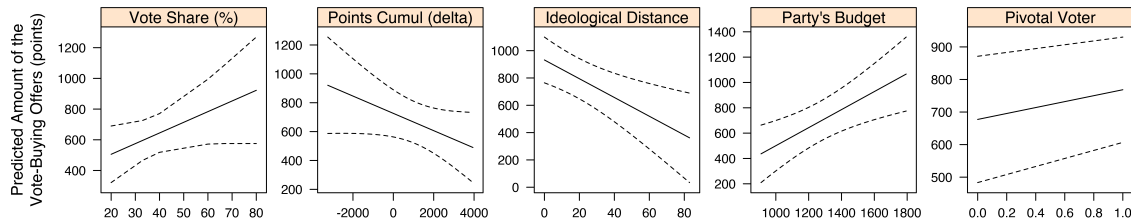
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- Voter is pivotal.



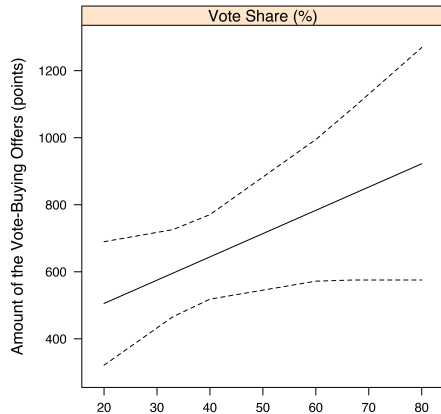
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- Participant fixed effects.

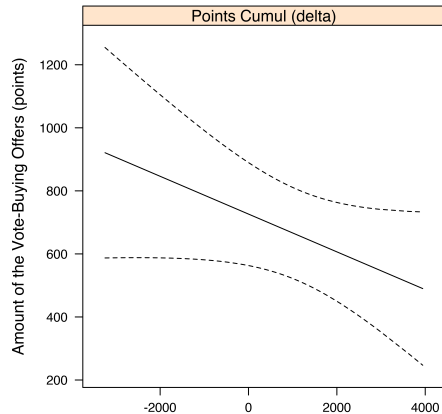


Overall, results conform with Prospect Theory.

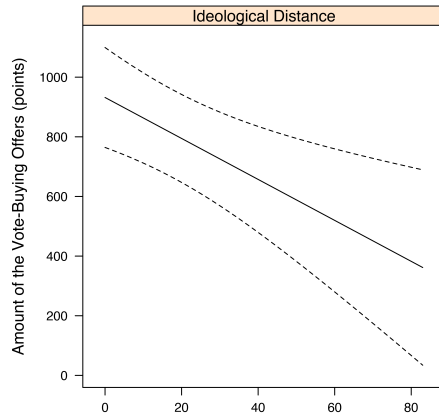
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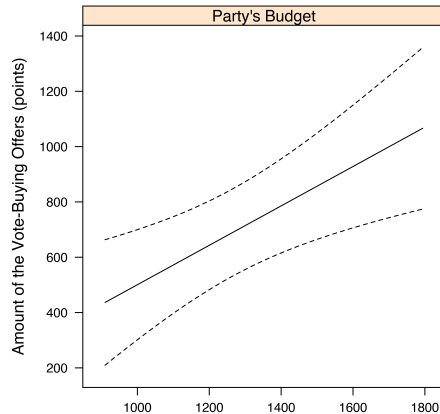
- **Parties are risk-seeking in the domain of losses:** unlike EUT, parties do consider sunk costs, buying more votes to compensate for past losses.  
Decision-makers try to break-even.



- **Core/swing voters:** Parties buy more votes at higher (not lower) prices from closest supporters.  
Unlike spatial theories of voting, core voters cost more (not less).

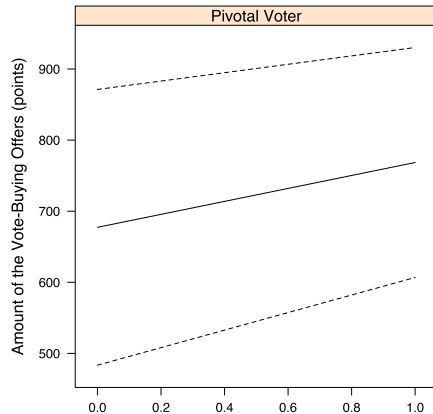


- **Party budgets:** Parties with larger budgets spend more on vote buying.



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

This implies that parties don't see vote buying in the typical "insurance" sense: they don't buy more votes in tighter electoral races.



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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.

# Thank you



- Paper (draft) available at [www.HectorBahamonde.com](http://www.HectorBahamonde.com).
- All feedback is welcomed!

| Role    | Variable                        | N  | 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.

|                            | OLS                              |
|----------------------------|----------------------------------|
|                            | Amount of the Vote-Buying Offers |
| Intercept                  | −380.54<br>(568.66)              |
| Vote Share (%)             | 6.95<br>(5.55)                   |
| Points Accumulated (delta) | −0.06<br>(0.05)                  |
| Ideological Distance       | −6.87*<br>(3.26)                 |
| Party Budget               | 0.71*<br>(0.34)                  |
| Pivotal Voter              | 91.16<br>(124.46)                |
| R <sup>2</sup>             | 0.66                             |
| Num. obs.                  | 142                              |

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

Robust standard errors in parentheses.

Fixed effects parameteres omitted in table.