

Vote-Selling and Vote-Buying: Does The House Always Win? Gambling Votes in the Lab

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10 minute talk

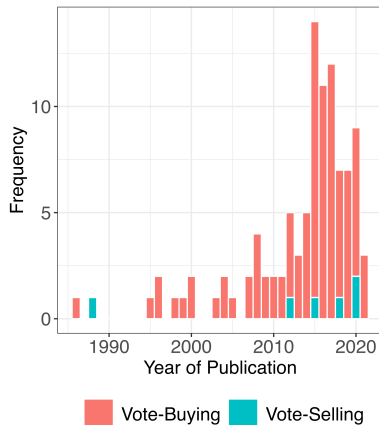
Why sequencing matters

- Two situations:
 - A buyer walks up to you: “I will give you 50 euros for that concert ticket.”
 - You post the same ticket and say: “I will sell it for 80 euros; take it or leave it.”
- Same good, buyer, seller, environment.
- But who moves first changes:
 - Bargaining power.
 - How surplus is split.
 - Which trades actually occur.
- In clientelism, we almost always assume **parties move first** (vote buying).
- This paper asks: what happens when **voters move first and sell**?

Clientelism research has a lopsided market view

- Classic quantitative view: clientelism as **party-initiated demand** for votes.
 - Who do parties buy from? Core vs swing?
 - How does electoral risk shape targeting?
- But ethnographers emphasize reciprocity:
 - Voters, neighborhood leaders, and brokers often initiate exchanges.
 - Many relationships are explicitly **client-initiated**.
- Quantitative work:
 - Heavily focused on vote buying.
 - Very few studies model vote selling; almost none treat buyers and sellers symmetrically.
- We argue that understanding clientelism requires putting **voters as strategic sellers** on equal footing with parties.

The imbalance in the literature



Annual frequency of Web of Science publications whose abstracts include the terms “vote

buying” and “vote selling”

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What we do

- Conceptual move:
 - Treat **vote buying** and **vote selling** as two institutional variants of the same clientelistic exchange.
 - The key institutional rule is **who initiates** the transaction.
- Theory:
 - Simple spatial model with one pivotal voter and two parties.
 - Variant 1: **party-initiated vote buying**.
 - Variant 2: **voter-initiated vote selling**.
- Experiment:
 - Laboratory games that mirror the model.
 - Same ideology, budgets, and electoral stakes; only sequencing differs.
- Today:
 - Intuition and minimal notation from the model.
 - Experimental design and main empirical results.
 - What we learn about **who benefits** when initiative shifts from parties to voters.

Two institutional variants of the same exchange

Game 1: Party-initiated
vote buying (VB)



Parties A, B choose offers s_A, s_B



Voter observes (s_A, s_B) and votes

Game 2: Voter-initiated
vote selling (VS)



Voter chooses minimum prices (a_A, a_B)



Parties accept or reject, then voter chooses

- **Same:** one pivotal voter, two parties, payoffs, budgets, electoral risk.

Players, preferences, and stakes

- Parties $i \in \{A, B\}$ and one pivotal voter j .
- One-dimensional policy space: $\gamma \in \{1, \dots, 100\}$ with $\gamma_A < \gamma_B$.
- Voter ideal point x_j ; ideological utility if party i wins:

$$u_j(\gamma_i) = D - |x_j - \gamma_i|, \quad D > 0.$$

- Preferred (core) party:

$$i^* = \arg \max_{i \in \{A, B\}} u_j(\gamma_i).$$

- Ideological advantage of the core party:

$$\Delta = u_j(\gamma_{i^*}) - u_j(\gamma_{-i^*}) > 0.$$

- Δ is the minimum compensating transfer needed to flip the vote.

Electoral risk and transfers

- Voter is pivotal with probability $\pi > 0$.
- Party i values winning at $W_i > 0$; its electoral stake is

$$R_i = \pi W_i.$$

- Think of R_i as the maximum the party is willing to pay for the pivotal vote.
- Transfers:
 - Vote buying: parties offer $s_i \geq 0$.
 - Vote selling: voter requests $a_i \geq 0$.
- Voter utility from voting for i and receiving transfer t_i :

$$U_j(i, t_i) = u_j(\gamma_i) + t_i.$$

Game 1: Party-initiated vote buying

- Parties observe $(x_j, \gamma_A, \gamma_B, R_A, R_B)$ and choose s_i simultaneously.
- Voter observes (s_A, s_B) and chooses a party.
- In a symmetric benchmark with $R_A = R_B = R$ and $R > \Delta$:

$$s_{i^*}^{VB} = \Delta, \quad s_{-i^*}^{VB} = 0.$$

- So:
 - The ideologically preferred party buys the vote at the minimal compensating transfer.
 - The opponent usually does not buy.
 - Transfers concentrate on **core** supporters.

Game 2: Voter-initiated vote selling

- Voter proposes (a_A, a_B) .
- Party i accepts only if $a_i \leq R_i$.
- Let W be the **electorally stronger party** with $R_W > R_{-W}$.
- When W is not the core party ($W \neq i^*$):
 - There is a range of prices where both parties accept, but the voter prefers W .
 - Voter can set a_W close to R_W , extracting more from the electorally strong opponent.
- Intuition: strong parties have higher stakes and higher willingness to pay; initiative lets voters try to exploit that.

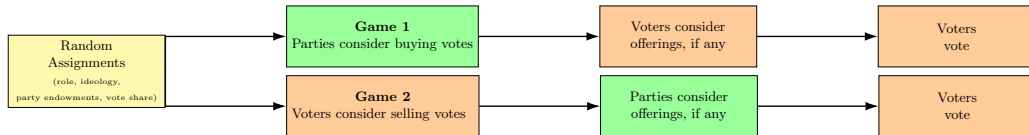
Hypotheses

- **H1 (Core Targeting Under Party Initiative):**
 - When parties initiate, transfers concentrate on ideologically proximate voters; parties mainly buy from their core.
- **H2 (Selling to the Opponent Winning Party):**
 - When voters initiate, they demand higher prices from electorally strong, often ideologically distant parties, using vote selling to hedge against electoral risk.
- **H3 (Higher Voter Payoffs Under Party Initiative):**
 - Because parties overspend under electoral risk when they initiate vote buying, while rejecting many high-priced proposals in vote selling, voters earn higher expected payoffs in VB than in VS.

Laboratory implementation

- **Subjects and implementation**
 - 102 adult participants in a Chilean laboratory, implemented in oTree.
 - Show-up fee plus performance-based earnings in experimental points.
- **Roles**
 - Each game: three real players (Party A, Party B, Voter).
 - Each subject plays three independent games; for every game we fully re-randomize roles, ideology, budgets, and fictional vote shares.
- **Information (common knowledge)**
 - Voter's ideological payoffs if A or B wins.
 - Party budgets.
 - Fictional vote shares that determine whether the real voter is pivotal.

Experimental flow



Two institutional variants in an otherwise identical strategic environment.

Ideology, budgets, and pivotality

- **Ideology**

- Voter sees how many points she gets if A wins vs B wins.
- This implements $u_j(\gamma_A)$, $u_j(\gamma_B)$, and the ideological gap Δ .

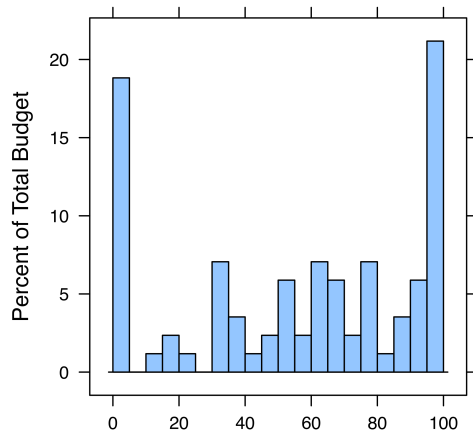
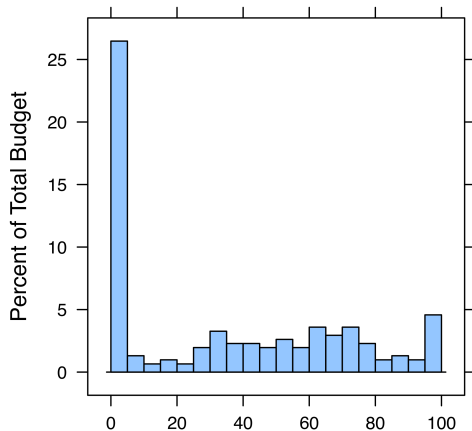
- **Party budgets**

- Drawn at random and identical for both parties within a game.
- Constrain feasible offers and requested prices.

- **Electoral risk**

- Fictional electorate of 3 or 5 additional voters.
- Vote shares for A and B imply safe vs close races.
- The real subject voter can be pivotal or not.

Vote-buying offers vs vote-selling requests



What the distributions suggest

- **Vote buying (VB):**
 - Offers cluster at zero and at a small interior value around the compensating transfer Δ .
 - Consistent with the equilibrium where the core party buys and the opponent often offers nothing.
- **Vote selling (VS):**
 - Requested prices are widely dispersed.
 - Many voters request very small transfers from at least one party.
 - Others request amounts close to the party budget, especially when bargaining with electorally strong parties.
- This motivates focusing on **pricing behavior** in VS to study how voters respond to ideology and electoral strength.

Modeling vote-buying offers

- Unit: party–voter dyad in the vote-buying game.
- We estimate:

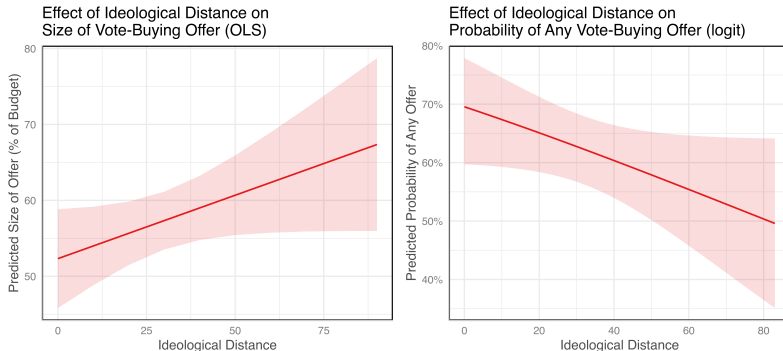
$$\text{Offer}_{di} = \gamma_0 + \gamma_1 \text{Ideology}_{di} + \gamma_2 \text{VoteShare}_{di} + \gamma_3 \text{Pivotal}_d + u_{di},$$

using a linear model for positive offers.

- Complementary logit model for the probability of making *any* offer.
- Standard errors clustered at the party level.

H1: Core targeting under party initiative

Results: parties target ideologically close voters



Predicted offer size (left) and probability of any offer (right) as a function of ideological distance. Shaded regions: 95% cluster-robust CIs.

Interpreting H1

- As ideological distance increases:
 - Parties offer **smaller** transfers.
 - They are also less likely to make any offer at all.
- When parties initiate the exchange, transfers concentrate on **ideologically proximate (core) voters**.
- This provides experimental support for **H1: Core Targeting Under Party Initiative**.

Modeling requested prices (VS)

- Unit: voter–party dyad in the vote-selling game.
- Dependent variable:

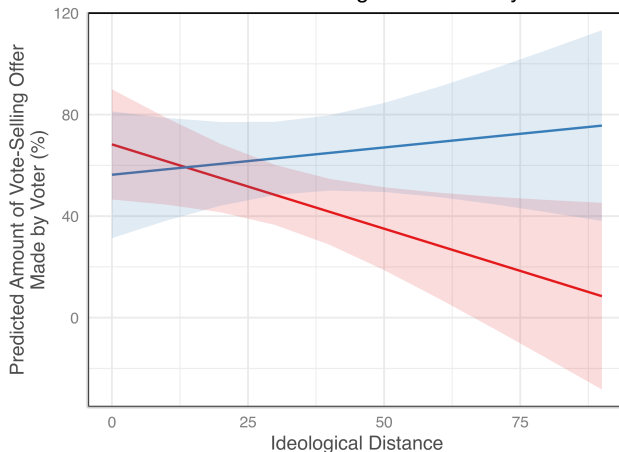
$$Y_{di} = \frac{a_{di}}{B_{di}} \times 100,$$

requested price as a percentage of the party budget.

- Covariates:
 - Ideological distance Ideology_{di} .
 - Party vote share VoteShare_{di} (electoral strength).
 - Interaction $\text{Ideology}_{di} \times \text{VoteShare}_{di}$.
 - Indicator for whether the real voter is pivotal.
- Linear model with standard errors clustered by voter.

Requested prices by ideology and electoral strength

Partial Conditional Effect of Ideological Distance and
Vote Share On Vote-Selling Offer Made by Voters



Interpreting H2

- With **electorally weak** parties:
 - Requested prices **decrease** with ideological distance.
 - When the weak party is ideologically close, voters ask for relatively high transfers to insure against its likely loss.
 - When it is distant, requested prices approach zero.
- With **electorally strong** parties:
 - Requested prices **increase** with ideological distance.
 - When the strong party is distant, voters often escalate demands toward the party's full budget.
 - Voters exploit stronger parties' higher electoral stakes R_i .
- This pricing pattern is consistent with **H2**: when voters initiate, they use vote selling to hedge against electoral risk by demanding more from electorally strong, often ideologically distant parties.

H3: Who gains from each institution?

Payoffs by role and institutional variant



Mean payoffs for voters and parties under party-initiated vote buying (VB) and voter-initiated vote selling (VS). Error bars: non-parametric 90% CIs.

Does initiative change who wins the game?

- **Parties:**
 - Party payoffs are similar or slightly higher in VS than in VB.
 - Shifting initiative to voters does not reduce party utilities in our setting.
- **Voters:**
 - Voters earn **higher average payoffs** when parties move first (VB) than when voters move first (VS).
 - One-sided test of the difference in means is statistically significant (p-value from the t-test in the paper).
- **Interpretation:**
 - In VB, parties often overspend relative to the minimal compensating transfer Δ , especially under electoral risk.
 - In VS, very high requested prices are often rejected, leaving some voters with only ideological payoffs.
 - Overall, initiative shapes how surplus is split: voters do better when parties initiate, while parties do at least as well when voters initiate.

Main takeaways

- Treating vote buying and vote selling as **institutional variants of the same market** clarifies:
 - Who is targeted (core vs strong opponent).
 - How much is paid.
 - How surplus is allocated between parties and voters.
- When **parties initiate** (VB):
 - Transfers concentrate on core voters.
 - Parties tend to overspend under electoral risk.
 - Voters capture a larger share of surplus.
- When **voters initiate** (VS):
 - Voters demand higher prices from electorally strong, ideologically distant parties.
 - Many of these high demands are rejected, lowering average voter payoffs.
 - Parties' payoffs are stable or higher relative to VB.

Implications and next steps

- Conceptually:
 - Clientelism is a **market** with both demand (parties) and supply (voters).
 - Initiative is a core institutional rule that helps explain core–swing targeting and surplus allocation.
- Methodologically:
 - Experiments that vary who initiates the exchange can uncover mechanisms that are hard to see in observational data.
- Limitations:
 - One-shot lab games, no brokers, no repeated interactions or sanctions.
 - Bilateral monopoly: two parties and one voter; no networks or groups of sellers.
- Future work:
 - Multi-voter and multi-party environments, with brokers and networks.
 - Lab-in-the-field and survey experiments varying initiative.
 - Linking this institutional perspective to ethnographic evidence on how often exchanges are party- vs voter-initiated.

Thank you



- Paper and abstract: www.HectorBahamonde.com
- Feedback very welcome.