## Valence Valenc

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#### Introduction

- Valence theory: Voters are influenced not only by policy positions, but also by concepts on which all voters hold near-identical preferences (Stokes, 1992; Clark, 2009)
  - Policy-based: perceived competence on universally valued goals (Groseclose, 2001; Jacoby, 2009; Clark, 2009)
  - Character-based: traits like honesty, competence, charisma, and unity (Clark, 2009; Adams, 2001)

#### • Key questions:

- How parties strategically use valence appeals to shape voter perceptions and structure party competition in different contexts (parliamentary debates, electoral campaign)
- How they navigate the trade-off between positional and valence-based appeals (Stokes, 1992; Clark, 2009)
- How negative valence shocks, such as political scandals, affect voter perceptions of politicians

#### Structure of the Dissertation

- Three (or more) interconnected empirical papers:
  - Paper 1: Electoral Campaigns and Valence: Daily-level data on parties' valence signaling during campaigns
  - Paper 2: Economic Performance and Strategic Valence: Linking macroeconomic indicators to parties' valence strategies
  - Paper 3: Experimental Evidence on Political Scandals: Two experiments on the ..

# Donald Trump: I could "shoot somebody and I wouldn't lose any voters"



#### Political Scandals and Valence Theory

- Political scandals involve norm-breaking behavior that violates societal norms, moral codes, or values (Genovese and Farrar-Myers, 2010; Thompson, 2013)
- Allegations of illegal, unethical, or immoral conduct directed at politicians or institutions (Rottinghaus, 2023), they attract public scrutiny and attention (Thompson, 2013; Marion, 2010)
- If scandals are perceived as **negative valence information**, then voters should negatively evaluate involved politicians (Doherty, Dowling, and Miller, 2014; Rottinghaus, 2023)
- Some studies find that scandals have negative political consequences even in polarized contexts (Darr et al., 2019; Wolsky, 2022), while others suggest minimal impact on politicians' careers and electoral behavior (Funck and McCabe, 2021; Lee et al., 2023)

#### Political Scandals: A Definition

- Characterized by norm-breaking behavior deviating from societal norms, moral codes, or values (Genovese and Farrar-Myers, 2010; Thompson, 2013)
- Allegations of illegal, unethical, or immoral conduct directed at politicians or institutions (Rottinghaus, 2023), they attract public scrutiny and attention (Thompson, 2013; Marion, 2010)
  - Financial Scandal: personal financial gain from actions (e.g., corruption, bribery, tax evasion)
  - Personal Scandal: immoral, illegal or unethical personal behavior (e.g., drug use, adultery, sexual allegations, cheating on CV)
- Some studies find that scandals have negative political consequences even in polarized contexts (Darr et al., 2019; Wolsky, 2022), while others suggest minimal impact on politicians' careers and electoral behavior (Funck and McCabe, 2021; Lee et al., 2023)

#### Literature Gaps in Political Scandal Research

- Limited focus on types of scandals beyond corruption, reducing generalizability (Kumlin and Esaiasson, 2012)
- Insufficient research on voters' reactions to different types of scandals
- Lack of systematic comparisons across various contexts (moral values are country dependent), scandal types and valence informations (Kumlin and Esaiasson, 2012)
- Effects of different scandal types on electoral behavior in polarized contexts remain poorly understood (Puglisi and Snyder, 2011; Darr et al., 2019; Rottinghaus, 2023)

#### Research Design: Two Complementary Experiments

#### Main Research Question

How does different types of **political scandals** shape voter evaluations of political candidates?

#### Experiment 1: Conjoint Design (Hainmueller, Hopkins, and Yamamoto, 2014)

- How do voters weigh different political scandals relative to other candidate attributes, such as party
  affiliation, policy positions, and positive valence?
- Do shared values (co-partisanship, ideological alignment) moderate the impact of political scandals on voter evaluations?

#### Experiment 2: Audio-Based Survey Experiment

- How does the tone and rhetorical delivery of a scandal accusation (calm vs. aggressive) influence voter perceptions of the accused politician?
- Do policy positions and ideological alignment condition the effect of scandal accusations on voter attitudes?

#### The Conjoint Experiment

- Present detailed-rich fictional scenario where two candidates compete in an actual election (Galasso, Nannicini, and Nunnari, 2023)
- Participants will express a preference between two politicians with differing characteristics across various attributes
- Each respondent completes **3 tasks**, each time choosing between **2 candidates** and indicating their preferred choice
- Sample: 2,000 respondents per country (USA, UK, Italy) recruited via a survey company
- Power Analysis: Our sample size allows us to detect a 0.04 effect for an attribute with 5 levels with 0.84 statistical power (Lukac and Stefanelli, 2020)

## Experimental Design: Profile Attributes

• General Attributes: Gender, Party Affiliation, Incumbency Status, Position on Immigration, Position on Economic Policies

Attributes	Levels
	No scandal
	Investigated for unwanted sexual conduct towards staff members
Political Scandal	Falsification of credentials on curriculum vitae
	Investigated for corruption
	Participated in a violent anti-government protest while underage
	No positive valence
	$ m Had\ 95\%$ of campaign statements certified as accurate by an independent fact checker
Positive Valence	Led public-private partnership preventing layoffs during local economic downturn
	Successfully rallied party support for innovative policy agenda, turning initial 30% backing into 90% consensus
	Voted with party positions on 93% of legislative votes

### Data Analysis Approach

- AMCE: The average effect of varying one attributes of a profile on the probability that that profile will be chosen by a respondent (Bansak et al., 2022)
- Marginal Means: An alternative estimator that does not rely on reference categories and is gaining preference in recent research (Casiraghi, Curini, and Alessandro Nai, 2024)
- Exploratory Analyses:
  - ACIEs: Examining how the impact of one attribute (e.g. party affiliation) depends on another (e.g. scandal)
  - Subgroup analyses: Preference heterogeneity across respondent characteristics (Leeper, Hobolt, and Tilley, 2020)

#### Audio Experiment

- Investigate how the **tone of delivery** influences the effectiveness of valence attacks (Tigue et al., 2012; Gerstle and A. Nai, 2019; Kulz et al., 2023)
- Utilize open-source multi-voice TTS technology to simulate realistic political debates
- Sample: 2,000 respondents per country (USA, UK) recruited via a survey company
- Participants will be randomly assigned to listen to three debates or read the text version. At the end of the experiment, respondents will indicate their preferred candidate
- Debate Structure (Approx. 2 minutes):
  - An anchor introduces the two politicians
  - One politician attacks the other over a political scandal (negative valence)
  - The second politician redirects the discussion to their own policy proposals

## Experimental Manipulations

Gender "Accused" Politician	Male
Gender "Accused" Politician	Female
Gender "Attacking" Politician	Male
Gender Attacking Fontician	Female
Tone "Attacking" Politician	Calm
Tone Attacking Fontician	Aggressive
	Promote strict border controls (Right-wing)
Policy Topic	More jobs, reduced unempl (Valence issue)
	Financial support for low-income families (Left-wing)
Valence Attack	Corruption
valence Attack	Sexual Allegations

### How are we generating the audios?

- OS Text-To-Speech Model: VITS (Kim, Kong, and Son, 2021), an end-to-end speech synthesis multispeaker model trained on the CSTR-VCTK Corpus (Veaux, Yamagishi, and MacDonald, 2017)
- Pipeline 1: Pre-written Scripts + TTS
  - We manually write a set of debate scripts, covering different policy topics and valence attacks
  - A Python script processes the text with the TTS model, converting it into audio while adjusting speaker gender and voice tone
- Pipeline 2: LLM-Generated Debates + TTS
  - An LLM generates debate scripts based on prompts specifying the policy topic and the scandal
  - The generated text is fed into the TTS model for audio synthesis
- Post-processing: we apply enhancements such as noise reduction and pitch adjustments using Librosa and Soundfile to improve realism

#### Example: Pre-written Debate Script

Anchorman: Welcome to today's debate on **economic policy.** Senator Williamson, Senator Smith, thank you for being here.

Senator John Williamson: Good morning, and thank you for the opportunity to participate.

Senator Jane Smith: Good morning, I'm glad to be here.

Anchorman: Senator Williamson, let's start with you. What is your perspective on today's economic challenges?

Senator John Williamson: Our priority must be job creation and unemployment reduction. We've worked on policies that aims to reduce unemployment and provide more opportunities for our citizens. Our goal should be to improve living standards and ensure long-term stability.

Anchorman: Senator Smith, do you have a response?

**Senator Jane Smith:** Senator Williamson talks about job creation, but how can anyone take his words seriously when he's been investigated for **unwanted sexual conduct** towards staff members? This isn't just a matter of policy—it's about trust, integrity, and accountability.

## Policy Shifts and Strategic Valence Emphasis in Electoral Competition

- Research Question: How do parties adjust their emphasis on valence traits in response to changes in their policy positions?
- Theoretical Expectations:

## Research Design: Data and Methodology

- Data:
  - Valence Data: Comparative Campaign Dynamics Dataset (Debus, Somer-Topcu, and Tavits, 2018)
  - Polls Data (Jennings and Wlezien, 2018), Country-Specific Polls on Wikipedia
  - Countries & Election Years: Czech Republic (2010, 2013), Germany (2009, 2013), Spain (2008, 2011), Hungary (2010), Netherlands (2012), Poland (2007, 2011), Portugal (2009, 2011), Sweden (2010, 2014), UK (2005, 2010, 2015)
- Methodology:

## Preliminary Results

- Results
- $\bullet$  Next Steps

### Economic Performance Indicators and Strategic Valence Choices

#### Theoretical Expectations and Mechanisms

- Governing parties emphasize valence traits (e.g., competence, effective governance) when economic indicators like GDP growth and low unemployment are favorable
- Opposition parties highlight **positional issues** (e.g., inequality, redistribution) to challenge the governing party's competence and focus on unequal economic benefits
- governing parties use favorable economic indicators to underscore valence traits that reinforce public confidence and perceived competence. Conversely, without the ability to claim credit for economic gains, opposition parties may emphasize positional issues, such as inequality or social justice.

#### Research Questions

- RQ1: How do governing parties adjust their emphasis on valence traits in response to positive economic indicators?
- **RQ2:** How do opposition parties adjust their communication strategies around economic issues in response to positive economic indicators?

## Research Design: Data and Methodology

#### • Data:

- Parliamentary debates (e.g., ParlaMint)
- Economic performance indicators (e.g., GDP growth, unemployment rates)

#### • Methodology:

- Use a Natural Language Inference (NLI) approach to classify speeches into economic valence traits and positional issues
- Focus on traits such as competence in managing the economy, effective governance, and leadership during economic crises
- NLI Classifier: Political DEBATE (Burnham et al., 2024), maybe fine-tune it!
- Analyze how governing parties emphasize economic valence traits in response to positive economic indicators.
- Examine how opposition parties shift focus to positional issues under similar conditions.

## Conclusions and Next Steps

#### Conjoint Experiment

- Findings will show the relative weight of scandal information compared to party affiliation, policy positions, and positive valence in respondents evaluations
- Ensure proper randomization of valence attributes while maintaining realistic candidate profiles

#### Audio Experiment

- Offering insights into how tone and framing of political scandals related attacks influence candidate perceptions and voter decision-making
- Validate the emotional tone of political speech (Calm vs. Aggressive). Potential approach: use SpeechBrain (Ravanelli et al., 2021) trained on IEMOCAP
- Compare the advantages of LLM-generated vs. manually written debate scripts: which approach better captures natural political discourse while maintaining experimental validity

#### Thank You for Your Attention!

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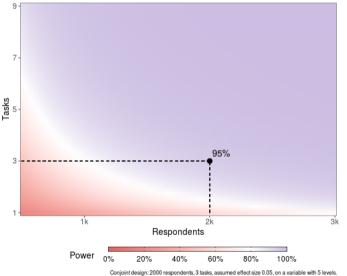
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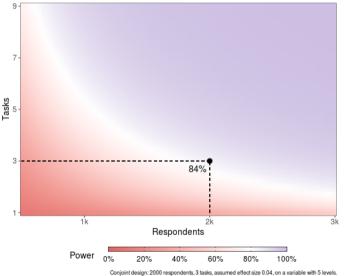
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## Appendix 1.1 - Power Analysis - 0.05 es



## Appendix 1.2 - Power Analysis - 0.04 es



## Appendix 2.1 - Prompt Example

```
prompt = (
    f"This is a dialogue between two politicians, introduced by a journalist. The debate focuses on (selected_policy). "
    f"Politician A defends their plan, while Politician B questions Politician A's competence due to a past political scandal. The political scandal is (selected_scandal)."
    "Politician A keeps emphasizing the policy, while Politician B focuses on the scandal. The debate should last 2 minutes max."
```

## Appendix 2.2 - Prompt Example

```
prompt = (
f"This is a dialogue between two politicians, introduced by a journalist. "
f"The debate focuses on {selected_policy}, with Politician A defending their
f"and Politician B criticizing them based on {selected_scandal}. They will keep doing that everytime. I will write you the start of the dialogue"
f"Policy: {selected_policy}\n"
f"Scandal: {selected_scandal}\n\n"
f"Moderator (Journalist): Welcome to today's debate on the new proposal about
fselected_policy). "
"We have two guests: First Senator John Williamson will speak and then Senator
"Let's begin.\n\n"
"Politician A: Thank you for having me. I believe our plan will bring great
f"Politician B: While Senator Williamson talks about benefits, let's not forget their involvement in {selected_scandal}.\n"
)
```

## Appendix 3.1 - Full Profile Table

Attributes	Levels
Gender	Male
Gender	Female
Party Affiliation	Right-Wing
Party Amnation	Left-Wing
Incumbency Status	Incumbent
incumbency Status	Opposition
Position on Immigration	Implement strict border controls and reduce immigration
Fosition on immigration	Promote inclusive immigration policies and increase quotas for asylum seekers
Position on Economic Policies	Advocates for tax reductions, market deregulation and business-friendly policies
1 osition on Economic 1 oncies	Supports stronger market regulations, higher corporate taxation and expanded welfare programs
	No scandal
	Investigated for unwanted sexual conduct towards staff members
Political Scandal	Falsification of credentials on curriculum vitae
	Investigated for corruption
	Participated in a violent anti-government protest while underage
	No positive valence
	Had 95% of campaign statements certified as accurate by an independent fact checker
Positive Valence	Led public-private partnership preventing layoffs during local economic downturn
	Successfully rallied party support for innovative policy agenda, turning initial 30% backing into 90% consensus
	Voted with party positions on 93% of legislative votes
	voted with party positions on 35% of registative votes

## Appendix 3.2 - Valence vs Valence

Attributes	Levels
	No scandal
	Investigated for unwanted sexual conduct towards staff members
Political Scandal	Falsification of credentials on curriculum vitae
	Investigated for appropriation of illegal funding
	Participated in a violent anti-government protest while underage
Positive Valence	No positive valence
	Received an award for championing workplace equity and inclusion from the National Diversity & Inclusion Association
	He had 95% of campaign statements certified as accurate by an independent fact checker
	Led a public-private partnership that prevented layoffs during a local economic downturn
	Received a national award for community service while underage