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Parliamentary debate is at the heart of political decision making and hence manifests political power. Still, power is a complex phenomenon which has been widely theorized in the study of culture and society. We worked with a ground definition inspired by Foucauldian power-knowledge. This poster aims at shedding light on the manifestations of different aspects of power in political debate by analyzing the networks that emerge from parliamentarians mentioning one another.

Research Questions

In order to reduce the complexity of the theme of power, we have approached the networks through two questions:

- 1. Argumentative Power: How can speeches given by MPs and the mentions of them give insights into the power of MPs within political debates?
- 2. Structural Power: How do the speech practices of female and male MPs relate to topic and power distribution in parliament?

Data

We use the CLARIN ParlaMint Dataset, which contains parliamentary debates European countries. The datasets are linguistically annotated with information about part-of-speech, universal dependencies, and Named Entities. The data is based on transcripts of parliamentary debates (see Erjavec, T. et al. 2022).

a comparative perspective on active and passive roles in particular discourses we focused on three different countries:

Slovenia: Državni Zbor

United Kingdom: House of Commons

Spain: Congreso de los Diputados

Methods

DATA EXTRACTION

immigration retugee migration

We created subcorpora by handpicking a selection of non-ambiguous key terms that relate to

- healthcare,
- education,

as soft topics

energy, as hard topics (talked about by male MPs) (talked about by female MPs)

> immigration, as an ambiguous topic

(see Osborn, 2012 and Wängnerud, 1996).

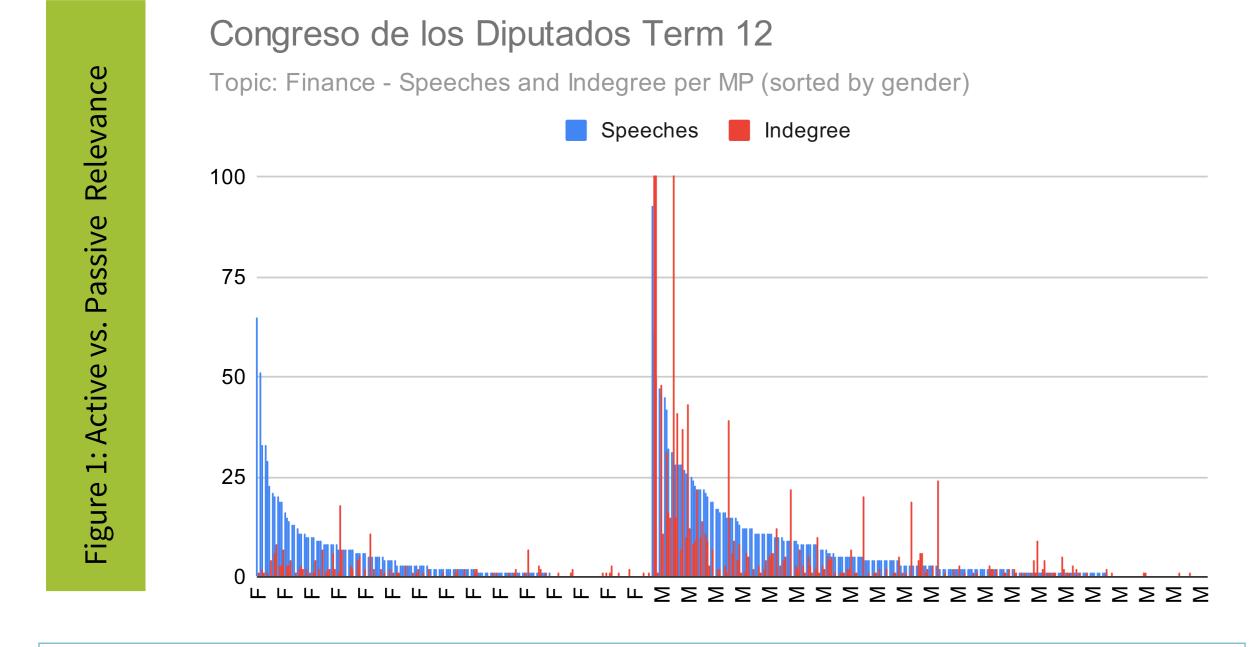
finance,

We identified Named Entities related to persons and kept/ those that target actual MPs. We improved the accuracy by adapting to country specific customs.

NETWORKS ANALYSIS AND STATISTICS

The networks have been created using Python and NetworkX and have been qualitatively analyzed in Gephi. To support the qualitative analysis, we applied general statistics on the speaker metadata and mentions.

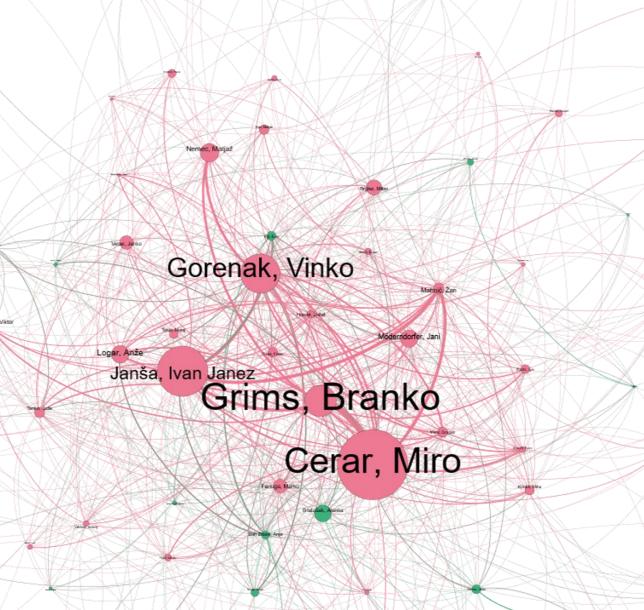
For the qualitative analysis of nodes and edges, we defined active relevance as the number of speeches and passive relevance as indegree, which represents the frequency of them being mentioned.



Discussion

- The mere presence of female MPs in the parliament does not warrant their participation in debates. They hold fewer speeches and are mentioned less than their male colleagues (see Figure 1).
- Country-specific political culture influences the networks to such a crucial extent that their analysis would not be feasible by employing solely computer-based methods.
- Although the keywords for topics were handpicked, we managed to generate networks which reflect the existing structural power (e.g. ministry positions) of the MPs within specific topics.

Selected Results



SLOVENIA- Državni Zbor

2014 – 2018 Term 7: Topic – Immigration

- Cerar was the Prime Minister.
- **Grims, Gorenak**, and **Janša** are anti-immigration far-right politicians who challenged Cerar.
- **Grims** has high active and low passive relevance.
- **Top 30** most relevant MPs
 - Active: M = 73%, F = 27%

→ dominated by male speakers.

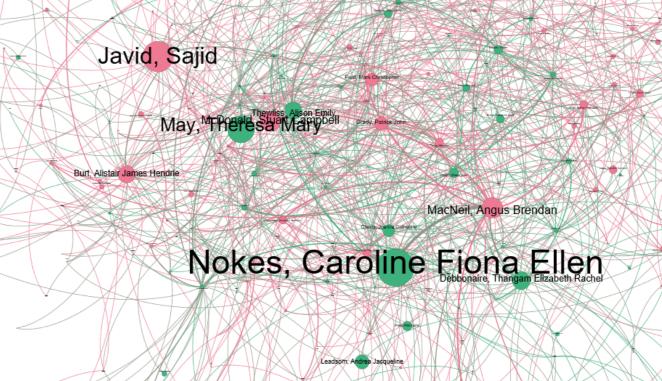
Passive: M = 83%, F = 17%

UNITED KINGDOM- House of Commons

Term 57: 2017 – 2019 Topic – Immigration

- **Nokes** was Minister of State and Immigration.
- **Javid** was Home Secretary.
- May was Prime Minister.
 - **Top 30** most relevant MPs • Active: M = 50%, F = 50%
 - Passive: M = 53%, F = 47%
 - → dominated by female speakers.

(NB: share of overall female MPs is 32.4%.)



Dastis Quecedo, Alfonso María Zoido Álvarez, Juan Ignacio Rajoy Brey, Mariano

Sánchez Perez-castejón, Pedro

SPAIN- Congreso de los Diputados

Term 12: 2016 – 2019 Topic – Immigration

- Sánchez was the opposition leader and successor of Rajoy.
- **Rajoy** was the President and a MP.
- **Zoido** was the Minister of Interior and Home Affairs.
- **Top 30** most relevant MPs
 - Active: M = 70%, F = 30%
 - Passive: M = 90%, F = 10%
 - → dominated by male speakers.

Overall Statistics

	Slovenia	UK	Spain
Total Speeches	21988	168272	11222
Total Speeches w/	13463	61663	8665
mentions	(61.2%)	(36.6%)	(77.21%)
Female MPs percentage	36.6%	32.4%	41.5%
Female Speech	27.8%	32.6%	36.8%

NETWORK LEGEND

Immigration colored by gender Speeches: text size Indegree: node size

Male MPs = Magenta Female MPs = Green