# Measuring Issue Polarization in Congressional Elections

# Methodological Objective

Measure the ideology of candidates' issue-specific positions in campaigns

### **Data: Campaign Platforms**



• Issue text from platforms for 2018–2022 primary election candidates who had a campaign website (N = 4,554;77%)

## Method: Word Embeddings

- Candidate- and word-level embeddings trained on campaign platform text with doc2vec (Case, 2023)
- Methodological Advantages:
  - 1. Uncovers linear substructures in texts E.g.: kinq man + woman = queen
  - 2. Places candidates and words in same dimensional space

# **Methodological Innovation**

Employ linear substructures as a tool for estimating the ideology of candidates' individual issue positions

For Example:

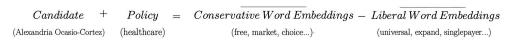
AOC + healthcare = universal $MTG + healthcare \neq universal$ 

### Colin R. Case

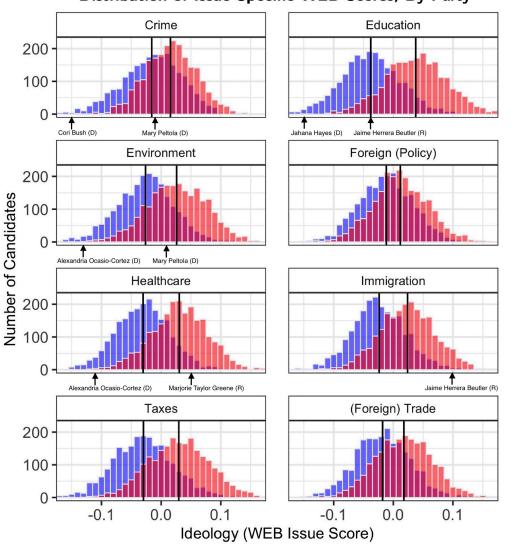
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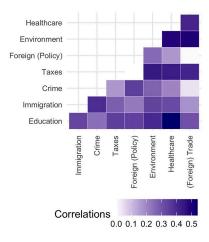
## Framework for Word Embedding Linear Substructures



# Distribution of Issue-Specific WEB Scores, By Party



#### WEB Issue Score Correlations



### **Example Issue Text**

Jaime Herrera Beutler (R-Wash.)

 $On\ Education...$ 

My priorities include alleviating the monetary burden that **student loan debt** has on graduates. *On Immigration...* 

I support enhanced border security measures such as a **wall**...I also favor making **English the national language** and a requirement for citizenship.

Mary Peltola (D-Alaska)

On Crime...

I will fight to ensure federal law enforcement focus on **public safety solutions** in all of Alaska.

On the Environment...

I support **responsible** resource development. Our abundant natural resources have provided **economic prosperity** for many in our state.

### **Next Steps**

- Keyword & missingness sensitivity
- Measurement validation
- Applications
- Electoral choice
- Democratic accountability