Justin Farrell Yale University

Climate Change Politics and Machine Learning

What we know...

What we don't...



ExxonMobil & Climate Koch Family ----- Contrarian Foundations Movement

1. Which orgs exert the most power in the network?

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2. What is thematic content of their texts?

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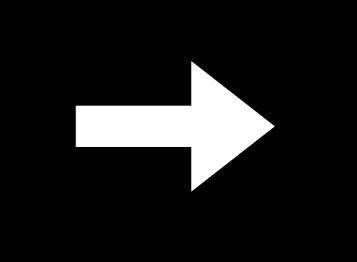
2. What is thematic content of their texts?

3. Which organizations' texts most influence media & politics?

A Quick Detour about Data

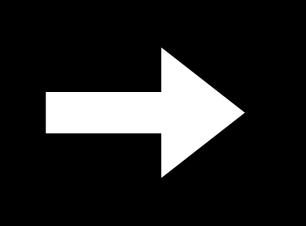
From analog to digital







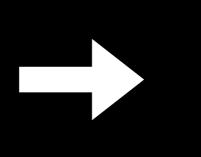






Digitizing information

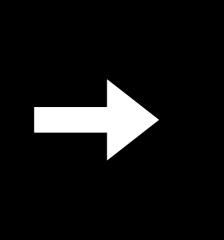




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Search -









"Your recent Amazon purchases, Tweet score and location history makes you 23.5% welcome here."

Is it useful to you?





"I can prove it or disprove it! What do you want me to do?"

<u>1. Social Network</u>

164 Organizations 4,556 Individual Actors

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*Donations from EM or KFF

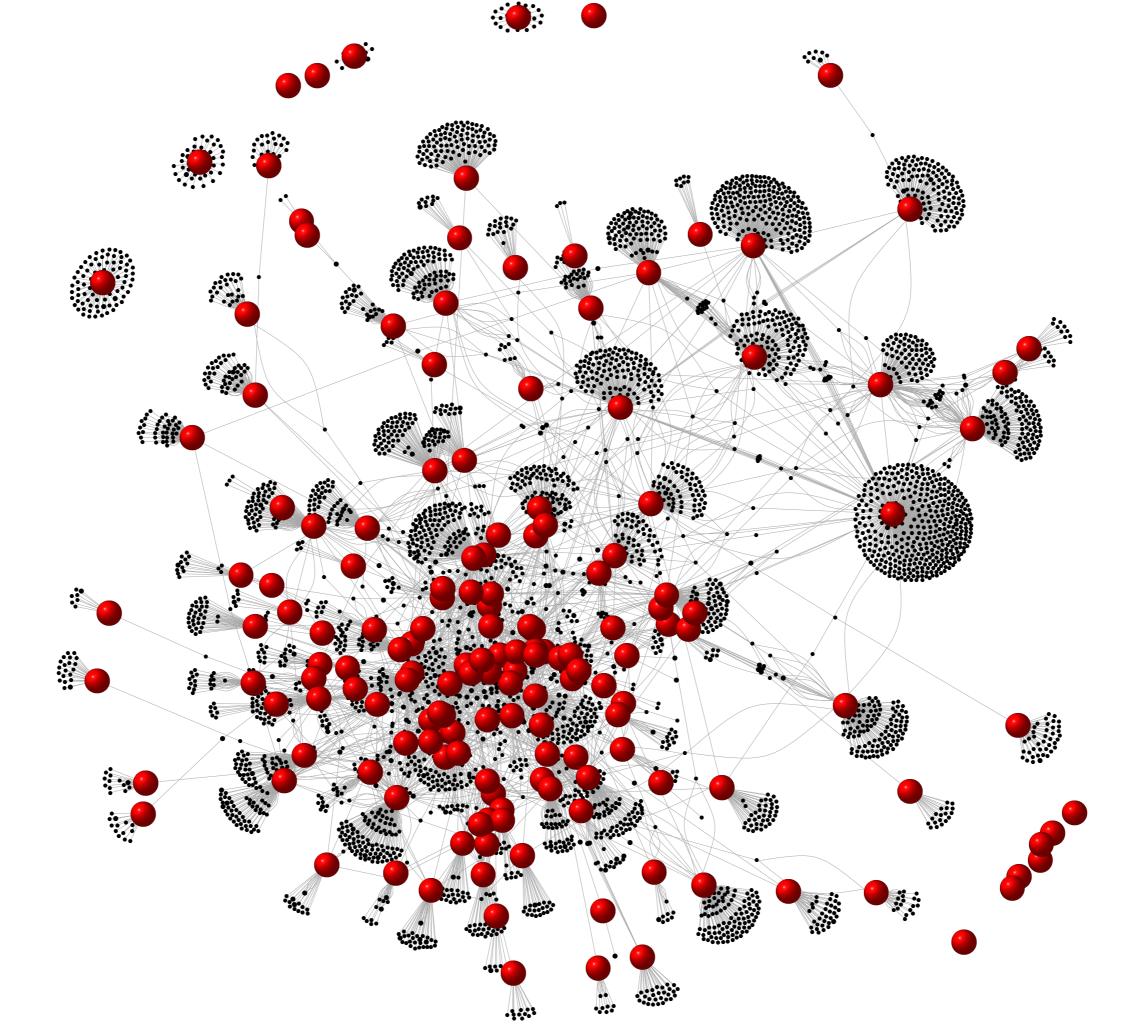
<u>1. Social Network</u>

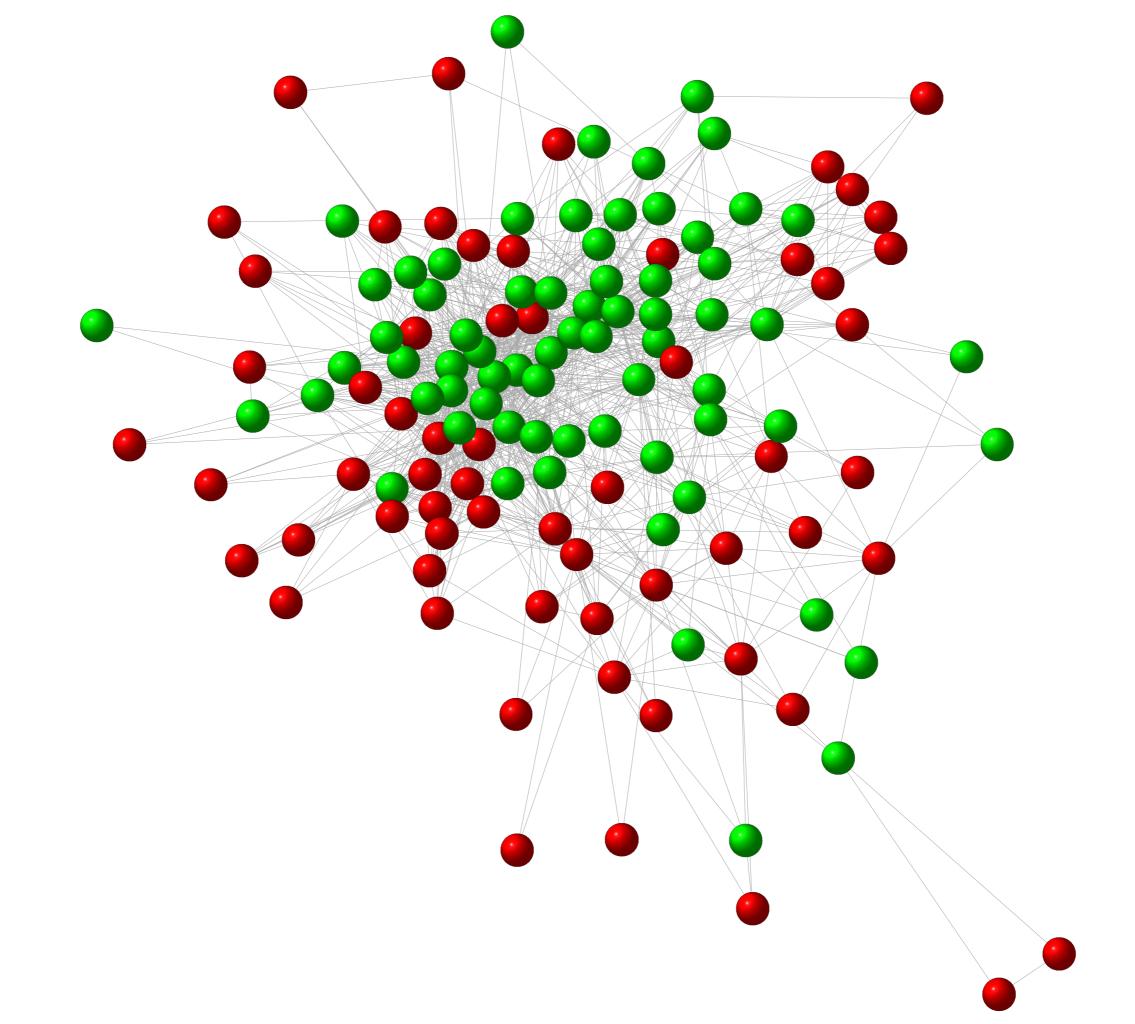
164 Organizations 164 Organizations 4,556 Individual Actors 2. Written Text 164 Organizations 40,785 Texts (1993-2013)

*Donations from EM or KFF

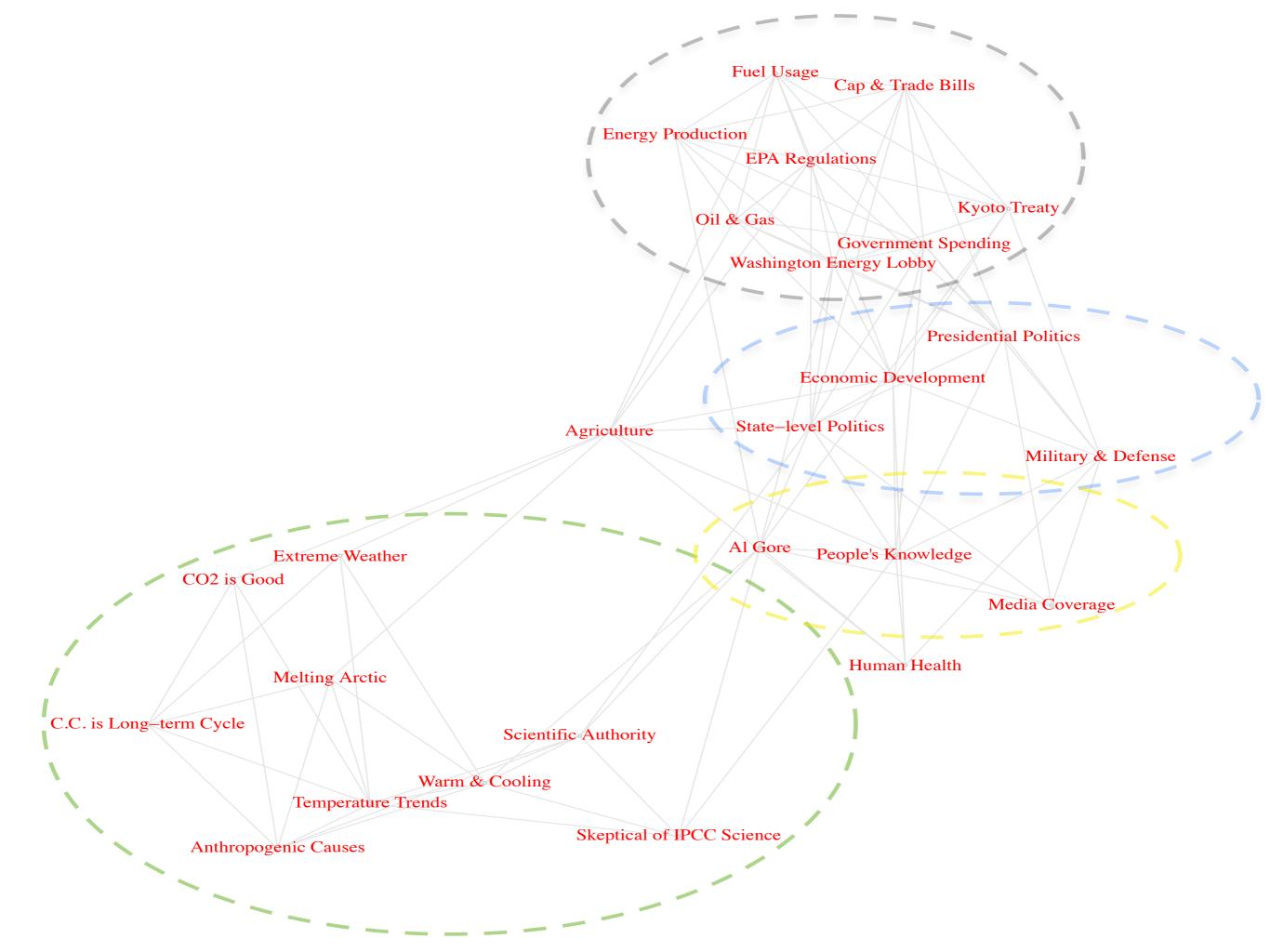
Benefits of this approach...

Results: Contrarian Network



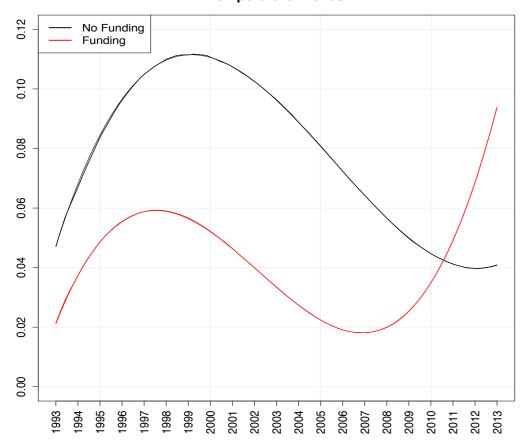


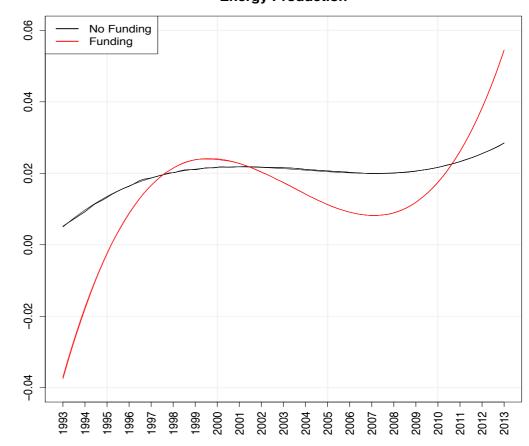
Results: Text Analysis

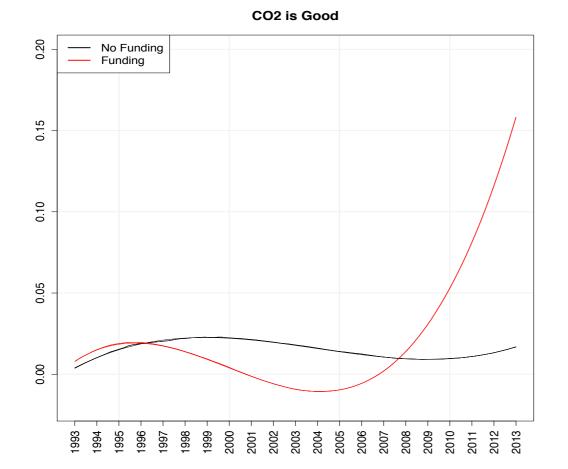


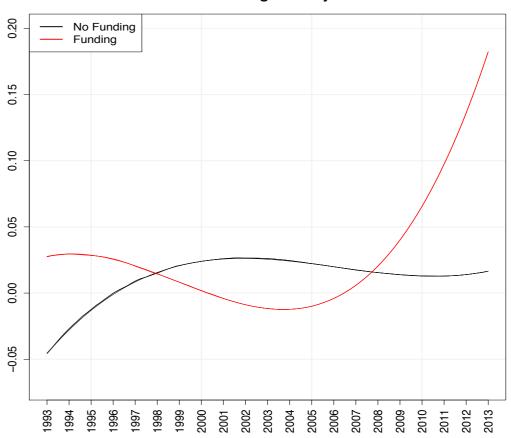
Temperature Trends

Energy Production



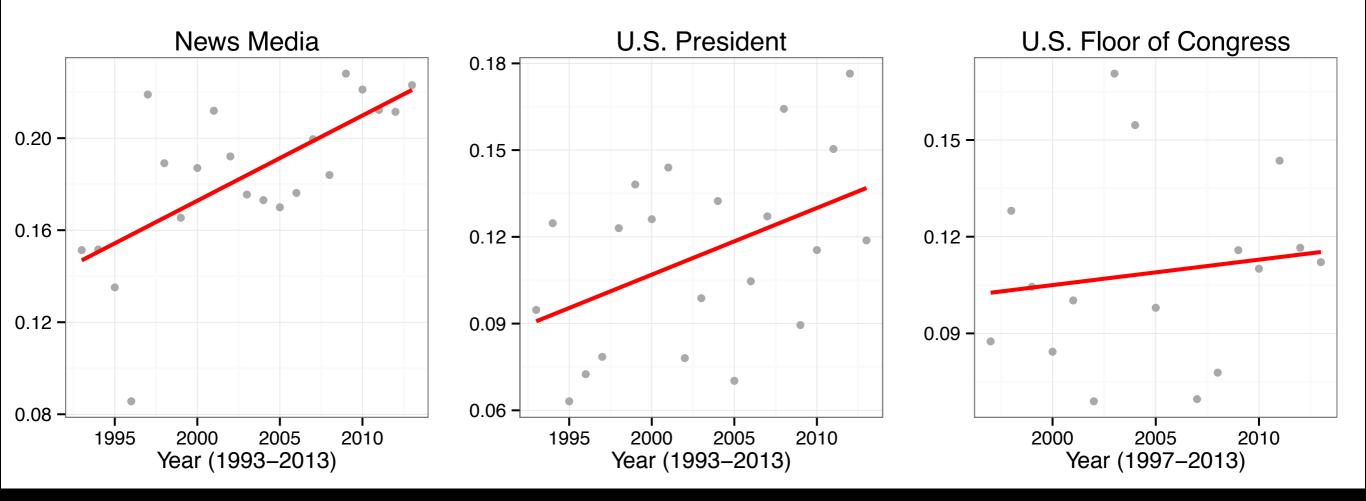




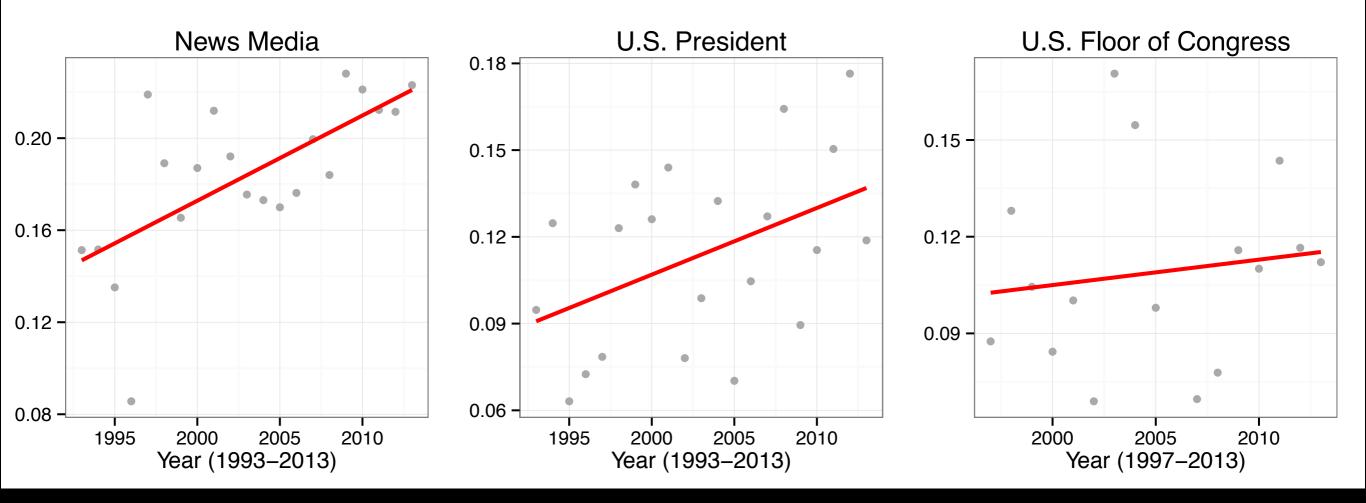


C.C. is Long-term Cycle

Semantic Presence in Media & Politics



Semantic Presence in Media & Politics



Orgs with Corporate Donations (**p<.001)

Contrarian Orgs who received funding:

- 1. are more central in the network
- 2. emphasized different thematic messages
- 3. were more semantically influential in media

Implications

Thanks!

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