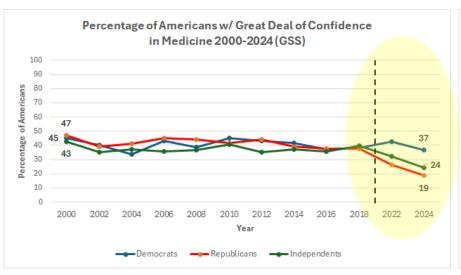


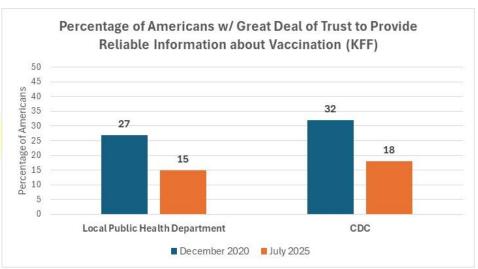
Pandemic Legacy: How the COVID Online Ecosystem of 2020–2021 Shaped Enduring Distrust in Public Health

Erik C. Nisbet Owen L. Coon Professor of Policy Analysis & Communication Director, Center for Communication and Public Policy Northwestern University

Northwestern

How did we get here?





Polarization & Distrust on Twitter (2020)

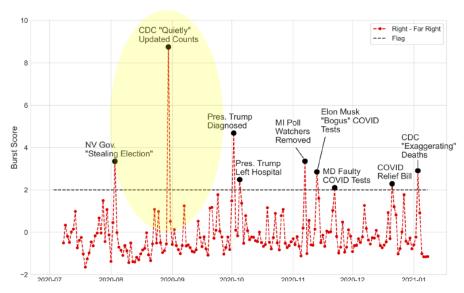


Figure 6. *Top.* Average inter-cluster similarity between the Left, Right, and Far-Right clusters for each day between July 1, 2020 and January 6, 2021. *Bottom.* Inter-cluster burst score [Equation (1)] between the Right and Far Right. Annotated days represent days in which the burst score is greater than or equal to 2. The first seven days of the observation period are omitted to establish baseline.

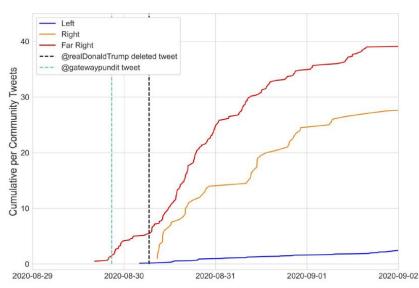


Figure 7. Cumulative per community tweet curves by cluster for tweets discussing the CDC altering its reported COVID-19 death statistics in August of 2020. The cyan dotted line denotes the time of a GatewayPundit tweet that sparked an amplification event in the Far Right and the black dotted line denotes the time of a deleted Donald Trump retweet of a QAnon account promoting the conspiracy.

Cross-Platform Diffusion of Distrust (2020)

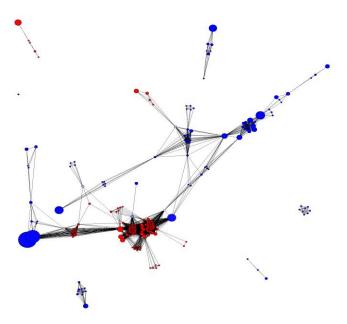
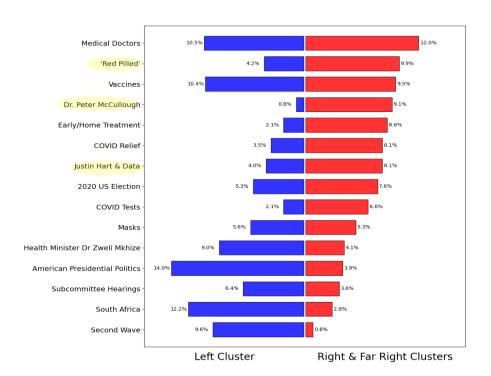


Figure 4 YouTube channel co-linkage network: Nodes correspond to YouTube channels, and the strength of the connections between them (edge weights) reflect the extent to which sentinel communities linking to videos in channel A also link to videos in channel B. Size of the nodes reflects total number of links to the channel from the sentinel Twitter accounts, and color corresponds to proportion of links from Left (blue) versus Right/Far Right (red) sentinel clusters.



COVID News Polarization (2021)



Metric is topic-level semantic similarity across all outlets, weighted by net sentiment.

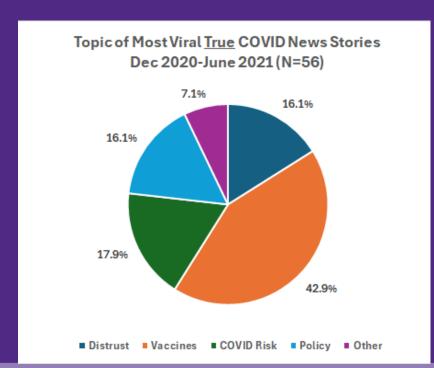
High polarization

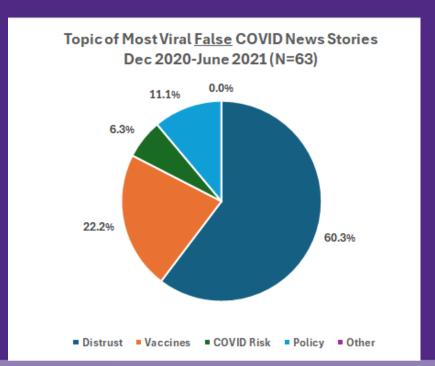
when vaccination rollout, mandates, and the FDA's Pfizer approval are most salient

Low polarization

during reopening and again during the Omicron wave

Semantic Polarization: Vaccination vs. Distrust





Downstream Consequences of Distrust

Misinformation
Endorsement is
associated with lower
trust, but NOT vaccine
hesitancy

Standardized Fixed-Effects Estimates of Information Endorsement on Public Health Trust and Vaccine Hesitancy (Dec 2020 – June 2021)

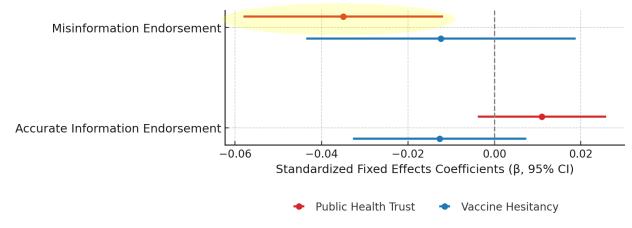


Figure displays standardized fixed-effects coefficients ($\beta \pm 95\%$ CI) from panel regression models estimating the within-individual effects of endorsing COVID-19 misinformation and accurate information on public health trust and vaccine hesitancy. Red points represent effects on Public Health Trust, while blue points represent effects on Vaccine Hesitancy. Negative coefficients indicate decreases in trust or increases in hesitancy associated with greater endorsement. Data: NU–OSU COVID Longitudinal Survey Panel, December 2020 – June 2021 (N = 1,200).

Seeds of MAHA: Deplatforming & Cross-platform Diffusion (2022-2023)

Anti-Vax & COVID Conspiracy FB Groups connected to MAGA FB through link sharing of Rumble videos.

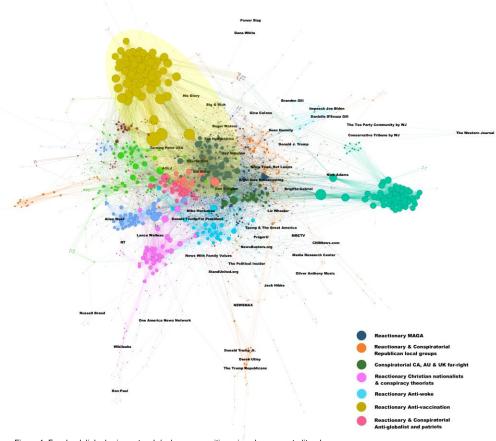


Figure 1. Facebook link-sharing network (color: communities; size: degree centrality; shape: triangle for primary, round of peripheral ports; labels: accounts with > 1M followers); Node Size = degree (# of edges, i.e., shares of links); Source: "Ports of illiberalism: Cross-platform diffusion of far right, conspiratorial, and reactionary Rumble videos on Facebook" by Gaw et. al. (2025)

So how we got here...

01 COVID-19 Exacerbated a Polarized Information System

02
Semantic
Polarization &
Amplification

03
Erosion of Trust
and Fusion w/
MAGA



Thank you!

Collaborators: Robert Bond, Graham Dixon, Hoda Fakhari, Fatima Gaw, Kelly Garrett, Shelly Hovick, Ayse Lokmanoglu, Samuel Malloy, Kilhoe Na, Matthew Osborne, Joseph Tien, Duane Wegener

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