



Agenda

Research interests
Research questions
Methods and data
Findings
Future research

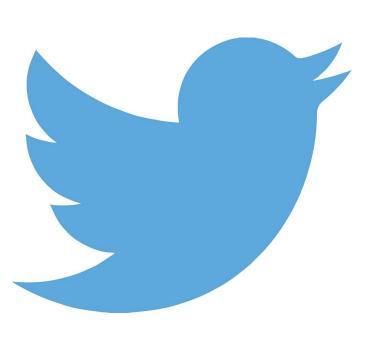
Research interests

- → Conspiracy theories: Climate denialism
- → Australian Bushfires 2019-2020
- → Network analysis on social media data: **Twitter**



Methods and data





Data acquisition

- Twitter API tools, Tweet Downloader
- Tweets with the hashtag #climatehoax
- Time frame: January 2020
- Raw data: 9315 tweets

Data analysis

- Python
- Networkx, pandas

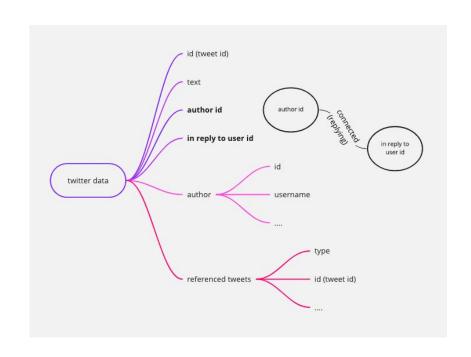
Data acquisition

		\$200V				
	id	text	author_id	in_reply_to_user_id	author	78
0	1223027619748286464	RT @ThiagoMaia2503: The ice of the Svalbard se	781531692	NaN	{"protected":false,"id":"781531692","url":"","	
1	1223021903658377216	@mgrant76308 Go back to school is freezing out	139322897	61851477.0	{"protected":false,"id":"139322897","url":"","	[{"type":"replied_to","id
2	1223017455188090881	Remember what is happening behind the curtain:	1216561117960511491	NaN	{"protected":false, "id": "1216561117960511491",	
3	1223014846976757760	"Global Warming"\n\n \\n\n#ClimateChange \n#Clim	573935794	NaN	{"protected":false,"id":"573935794","url":"htt	[{"type":"quoted","id":"1
4	1223012516084830208	RT @MannixZegge: Het merk Greta Nuff said	2447038212	NaN	{"protected":false,"id":"2447038212","url":"",	[{"type":"retweeted","id"
5	1223011624249892864	Het merk Greta Nuff said #ClimateHoax h	1213922882847293441	NaN	{"protected":false,"id":"1213922882847293441",	[{"type":"quoted","id":"1

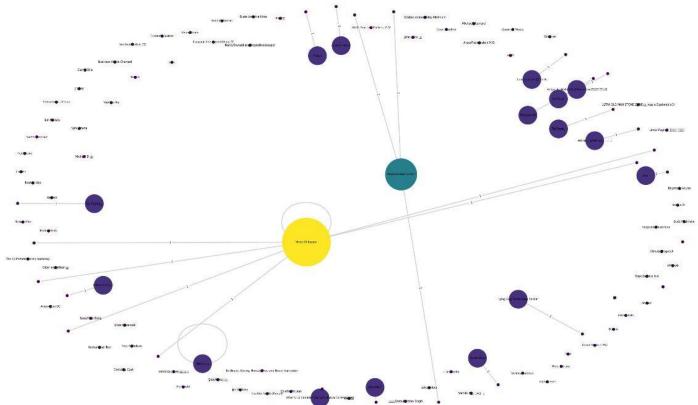
Networkx, pandas

Network analysis

- Node: author of tweets
 - Source: Author of the tweet
 - Destination: Author of the tweet that is being replied to
- Edge: author of the tweet -> replying to other user
- Network: Users replying to another users
- Metric: Out-degree centrality in directed graph
 - = The number of edges that the node directs to others / The number of nodes in graph - 1

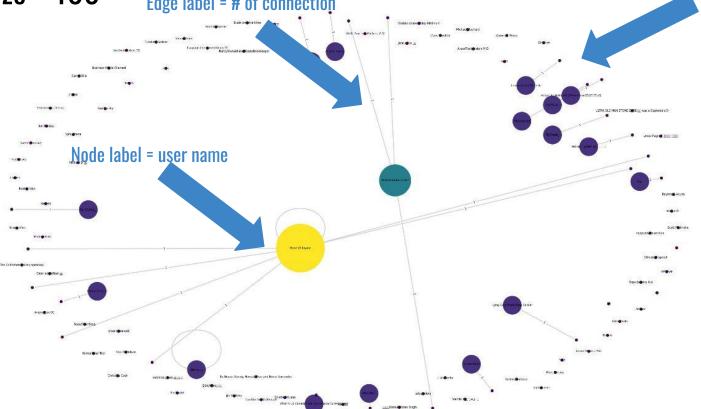


Sample size = 100

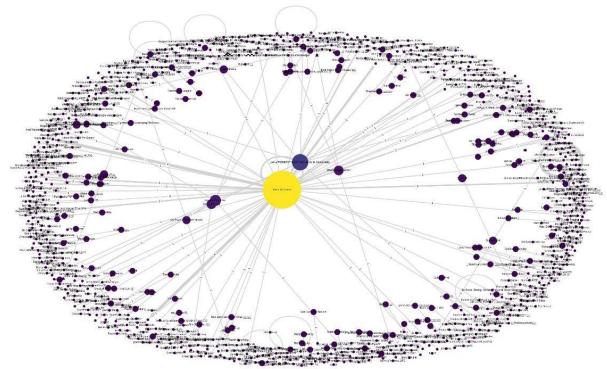


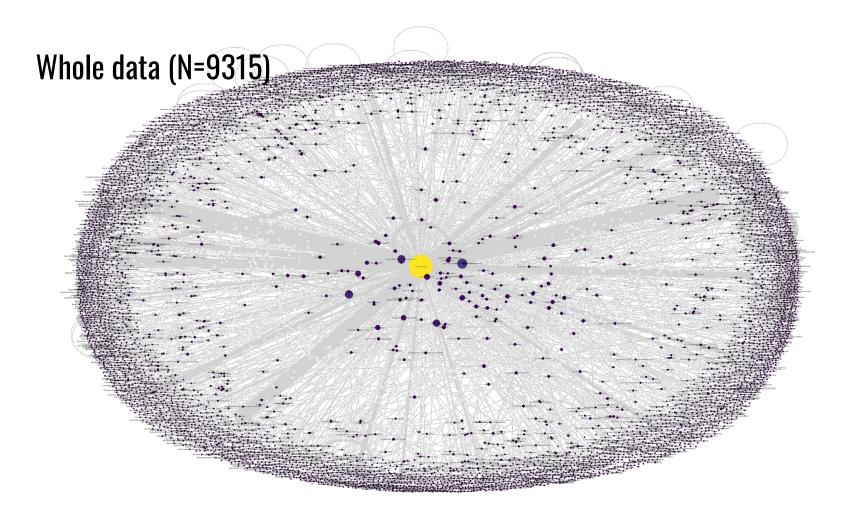
Sample size = 100

Edge label = # of connection



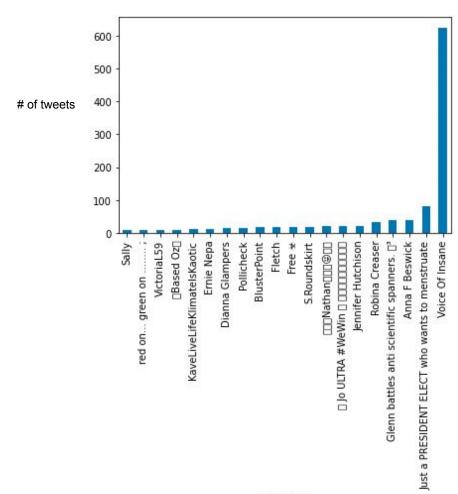
Sample size = 1000





But what did we actually find?

Top20 influencers





"@CharlieDaniels @ElizAKByrd Thank you so much. Please understand the fires are only a short term problem which could have been prevented. Please pray that the Government stops controlling our weather with Nexrad HAARP weather stations to push the #ClimateHoax & Description of the problem which could be supplied to the problem of the

"Will @abcnews @SBSNews be interviewing BOM climate-alarmists *ahem* sorry, scientists, to ask why they got it so wrong? Given that they can't forecast deluging rains, a month out - on what basis are they predicting 50 years in the future? #auspol #ClimateHoax https://t.co/VT8yF3NR90" @Robina Creaser

"@GeraldKutney Better still, if its all one big hoax, how do the skeptics explain this: #oops Ironic how bloggers know better than a trillion dollar industry set to lose money from the scam. #ClimateHoax https://t.co/YfzprHPmZs" @GlennCarr6

FINDINGS

- → The denialists combined with other conspiracy theorists. But also some activist influencers
- → Anti-MSM, anti-government, against global elites, anti-socialism, religiously loaded tweets, anti-science/technology
- → Conspiracy theory smoothie?

#climatechange	#CLIMATEHOAX	#climatebrawl	#ClimateHoax	#ClimateEmergency
613	603	586	346	55
#Auspol	#climateHoax	#climatehoax	#onyaKrill	#bushfires
45	45	43	22	20
#ClimateChange 19	#repent	#beready	#ClimateCrisis 13	#jesusreturnssoon 13
#OnyaKrill	#satancontrolselite	#devildecieves		#BushFireCrisisAustralia
#OHyaki 111	13	12	#AI Soficial gency	11
#jesussaves	#climateAlarmists	#climaterealists	#auspol	#bushfiresAustralia
10	9.	9	. 8	8
#bibletruths	#biblicalprophecy	#climate	#Climatealarmists	#ClimateCult
7	6	6	6	6
#climateEmergency	#NASAlie	#ourPM	#ClimateEmegency	#GlobalWarming
6 #Krill	6	6 #bushfireaustralia	5 #climateRealism	#ElectricVehicle
#KI'III	#WeX1t	#DUSTII IT Edus LT d I I d	#CIIMateRealism	#ETECUTIONETICIE
#FakeNews	#Agenda2030	#Bananada	#CHILDABUSE	#CI1MateAction
3	#//gc/ldd2030	2	2	2
#CLIMATEALARMISTS	#CLIMATEAPOCALYPSE	#climateChange	#climateCrisis	#CLIMATECULT
2	2	2	2	2
#ClimateDelusion	#ClimateEmergen	#Climatehoax	#climateneutral	#climatescam
. 2	2	2		2
#coronavirus	#devildeceives	#endtimesigns	#ExtinctionRebellion	#fakerefugees
#hypocrite	#MorrisonismyPM	#Only11YearsLeft	#onlyjesuscansave	#paris
#Hypocrite	#MOLLISOLLSIIIAM	#OITIYIITEALSLELL	#OITIY JESUSCATISAVE	#par 15
#ponzi	#QAnons	#satansdeception	#TrudeauWorstPM	#WWG1GWA
2	2	2	2	2
#1	#4Chan	#AGWCU2	#AlarmistCult	#AlbertaUSA
1	1	1	1	1
#Antarctic	#arson	#Asupol	#aupoli	#auspol2020
. 1	_1	1		1
#Australia	#BetterWirkingWorld	#BlairFeltmate	#britishindependence	#bushfire
#BushfireEmergency	#Canada	#Canadone	#carbonDerrangement	#CarryNancysBag
#BUSTII IT EEIIIEI GENCY	#Carlaua 1	#Cariadone 1	#Cai boilbei i aligelilei it	#Cai i yNaiicysbag
#CateBlanchette	#cbc	#cdnpoli	#Childabuse	#Climate
1	1	1	1	1
#climatealarmist	#Climatealarmist	#climatearson	#ClimateChangeIsReal	(Other)
1	1	1	1	95

Future research

- Polarized echo chambers?
- Does soft denialism lead to hardline denial?
 - Longitudinal analysis
- Compare other denialisms (e.g. anti-vaccination movements), events (natural vs political event)

Thank you for listening!

