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Reporting Summary

Nature Research wishes to improve the reproducibility of the work that we publish. This form provides structure for consistency and transparency in reporting. For further information on Nature Research policies, seeAuthors & Referees and theEditorial Policy Checklist.

Statistics						
For all statistical analyses, confirm that the following items are present in the figure legend, table legend, main text, or Methods section.						
n/a Confirmed						
	ple size (n) for each experimental group/condition, given as a discrete number and unit of measurement					
	n whether measurements were taken from distinct samples or whether the same sample was measured repeatedly					
The statistical	— The statistical test(s) used AND whether they are one, or two sided					
A description	A description of all covariates tested					
X A description	A description of any assumptions or corrections, such as tests of normality and adjustment for multiple comparisons					
	A full description of the statistical parameters including central tendency (e.g. means) or other basic estimates (e.g. regression coefficient) AND variation (e.g. standard deviation) or associated estimates of uncertainty (e.g. confidence intervals)					
For null hypothesis testing, the test statistic (e.g. <i>F</i> , <i>t</i> , <i>r</i>) with confidence intervals, effect sizes, degrees of freedom and <i>P</i> value noted Give <i>P</i> values as exact values whenever suitable.						
For Bayesian a	For Bayesian analysis, information on the choice of priors and Markov chain Monte Carlo settings					
For hierarchical	For hierarchical and complex designs, identification of the appropriate level for tests and full reporting of outcomes					
Estimates of effect sizes (e.g. Cohen's d, Pearson's r), indicating how they were calculated						
Our web collection on <u>statistics for biologists</u> contains articles on many of the points above.						
Software and c	ode					
Policy information abou	ut availability of computer code					
Data collection	Twitter API					
Data analysis	https://github.com/ninoch/perception_bias/					
	om algorithms or software that are central to the research but not yet described in published literature, software must be made available to editors/reviewers.					
We strongly encourage code deposition in a community repository (e.g. GitHub). See the Nature Research guidelines for submitting code & software for further information.						
Data						
Accession codes, uniA list of figures that I	ut <u>availability of data</u> nclude a <u>data availability statement</u> . This statement should provide the following information, where applicable: que identifiers, or web links for publicly available datasets have associated raw data restrictions on data availability					
The Twitter network and used hashtags by users data are available in https://github.com/ninoch/perception_bias/tree/master/Data						
Field-speci	fic reporting					
Please select the one be	elow that is the best fit for your research. If you are not sure, read the appropriate sections before making your selection.					
Life sciences	Behavioural & social sciences					

For a reference copy of the document with all sections, see nature.com/documents/nr-reporting-summary-flat.pdf

Behavioural & social sciences study design

Study description	Observational study of social media (Twitter)		
Research sample	We collected a sample of English-language Twitter users and their social network.		
Sampling strategy	Subset of 5,599 users of Twitter with public profile, who were active in California election. For more details, see section 4.1.		
Data collection	$\begin{tabular}{ll} \begin{tabular}{ll} The data have been collected in Kristina Lerman's lab, using Twitter API. \textbf{M} ore information about data collection process is in section 4.1 and the collection of the$		
Timing	June-November 2014		
Data exclusions	We only considered tweets which have hashtags. To filter-out infrequent hashtags, we considered hashtags used by more than 1000 users, we end-up having 1153 hashtags. More information in section		
Non-participation	NA		
Randomization	NA		
enorting	for specific materials, systems and methods		

Materials & experimental systems		Methods	lethods	
n/a	Involved in the study	n/a Involv	ed in the study	
X	Antibodies	≭ ☐ Ch	nIP-seq	
×	Eukaryotic cell lines	≭ ☐ Flo	ow cytometry	
×	Palaeontology	x	RI-based neuroimaging	
×	Animals and other organisms	,		
X	Human research participants			
x	Clinical data			