Revision of XGE-2023-1359R1 as invited by the action editor, Tara Mandalaywala, Ph.D. **Supplemental Information** "Psychological underpinnings of partisan bias in tie formation on social media" Mohsen Mosleh<sup>1,2\*</sup>, Cameron Martel<sup>2</sup>, and David G. Rand<sup>2,3,4</sup> <sup>1</sup>Management Department, University of Exeter Business School, United Kingdom; <sup>2</sup>Sloan School of Management, Massachusetts Institute of Technology, United States; <sup>3</sup>Institute for Data, Systems, and Society, Massachusetts Institute of Technology, United States; <sup>4</sup>Department of Brain and Cognitive Sciences, Massachusetts Institute of Technology, United States. \*Corresponding author: m.mosleh@exeter.ac.uk †Authors contributed equally **Table of Contents.** 1. Field Experiment. a. Bot versus human discernment pre-testing. b. Bot versus human informativeness & partisan slant pre-testing. c. Primary Analyses d. Secondary Analyses 2. Survey Experiment. a. Descriptive Statistics. b. Principal Component Analysis of Political Measures. c. Primary Analyses. d. Secondary Analyses – Filtering for Attention. e. Secondary Analyses – Filtering for Fox or MSNBC Retweeting. f. Secondary Analyses – Filtering for Frequent Twitter Users. g. Secondary Analyses – Examining Reasons for Follow-back and Ignoring Behavior.

h. Exploratory Analyses – Examining Free Response Text Data.

1. Field Experiment.

Note: For all analysis tables: \*p < .05, \*\*p < .01, \*\*\*p < .001.

*Ia. Bot versus human discernment pre-testing.* We conducted a pretest of our field experiment accounts to verify that our human-presenting bot accounts were perceived as similar to humans, and that our bot-presenting bot accounts were perceived as bots compared to our human-looking accounts. We recruited N=375 participants on Prolific ( $M_{\rm age}=45.98$ , 189 female; all passed 2 trivial attention screeners and reported using Twitter) to evaluate a series of 31 Twitter profiles each (7 real Democratic accounts, 6 real politically neutral accounts, 6 real Republican accounts, 11 actual 'conspiratorial' accounts, and 1 of our constructed field experiment accounts – either a human-looking Democrat, human-looking Republican, human-looking politically neutral, bot-looking Democrat, bot-looking Republican, or bot-looking politically neutral account). For each profile, participants were asked, "Do you think this account is a bot or a human?" (1=Definitely a bot, 2=Likely a bot, 3=Likely a human, 4=Definitely a human). We then predict human versus bot perception by profile type (real, conspiratorial, human-looking, bot-looking) via a linear model, with cluster robust standard errors by participant. As shown in Table S1, we find that our bot-looking accounts are perceived as significantly more likely to be a bot than our human-looking

accounts. We also do not find evidence of a significant difference in human versus bot perception of our human-looking accounts versus real profiles, nor versus actual conspiratorial accounts.

Table S1. *Human (versus bot) perception of Twitter profiles in pretest.* 

term	estimate	std.error	Z	p.value
(Intercept –	2.866	0.07	40.657	<0.001***
Human-Looking)				
Conspiratorial	-0.093	0.059	-1.578	0.115
Real	0.104	0.063	1.648	0.099
Bot-Looking	-1.175	0.103	-11.405	<0.001***

1b. Bot versus human informativeness & partisan slant pre-testing. We also conducted a pretest of our field experiment accounts to verify that our human-presenting bot accounts and bot-presenting bot accounts were perceived as similarly informative, and that our partisan accounts were perceived as more politically slanted than our neutral accounts. We recruited N=367 participants on Prolific (Mage=45.69, 174 female; all passed 2 trivial attention screeners) to evaluate our six planned field experiment accounts (human or bot presenting; Democrat, Republican, or politically neutral). All participants were asked to "Think about the content you would expect this account to share on Twitter (and thus that you would see if you followed this account)." Participants then were randomly asked either, "How useful/informative to you would you expect that content to be?" (1=Not at all, 2=Slightly, 3=Moderately, 4=Very, 5=Extremely) or "How politically slanted would you expect that content to be?" (1=Not at all, 2=Slightly, 3=Moderately, 4=Very, 5=Extremely). We first predict informativeness rating from profile type (bot, human) via a linear model, with cluster robust standard errors by participant and profile. We do not find

 informativeness (Table S2).

Table S2. *Informativeness/usefulness expectation predicted by profile type (bot, human).* 

evidence for a significant difference between human- and bot-presenting account expected

term	estimate	std.error	Z	p.value
(Intercept-Bot)	3.039	0.124	24.447	<0.001***
Human	0.036	0.097	0.373	0.709

We then predict political slant rating from profile partisan type (neutral, partisan) via a linear model, with cluster robust standard errors by participant and profile. We find evidence that our partisan accounts are perceived as significantly more politically slanted than our neutral accounts (Table S3).

Table S3. *Political slant expectation predicted by profile partisan type (neutral, partisan).* 

term	estimate	std.error	Z	p.value
(Intercept)	3.035	0.078	39.069	<0.001***
typepart	0.684	0.096	7.116	<0.001***

1c. Primary Analyses. We pre-registered our primary analysis here:

<u>https://aspredicted.org/blind.php?x=5H6\_HBH</u>. We report two minor deviations from this pre-registered model: (1) we pre-registered a baseline shared partisanship condition of neutral partisanship, but in our model instead use discordant partisanship as baseline; (2) we pre-registered z-scoring all dummy

variables, but in our model keep dummy variables coded 0, 1. Both deviations were made to increase model interpretability, but neither substantively change the model.

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Table S4. Follow-back predicted by linear probability model of user and account political concordance (baseline = discordant; concordant dummy, neutral condition dummy), account appearance (baseline = human-looking; bot dummy), user partisanship (0=Democrat, I=Republican), and all interactions.

Term	estimate	std.error	t	p.value
(Intercept)	0.025	0.019	1.353	0.176
Concord	0.179	0.026	6.81	<0.001***
Neutral	0.099	0.026	3.731	<0.001***
Bot	0.003	0.026	0.124	0.901
UserRep	0.024	0.026	0.927	0.354
Concord:Bot	-0.132	0.037	-3.549	<0.001***
Neutral:Bot	-0.077	0.037	-2.054	0.040*
Concord:UserRep	-0.033	0.036	-0.898	0.369
Neutral:UserRep	0.012	0.037	0.333	0.739
Bot:UserRep	-0.013	0.037	-0.36	0.719
Concord:Bot:User				
Rep	0.058	0.052	1.13	0.259
Neutral:Bot:User				
Rep	0.003	0.052	0.058	0.954

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*Id. Secondary Analyses.* Our primary pre-registered analysis assesses whether bot- (versus human-) looking accounts change the absolute follow-back rate of concordant (or neutral) versus discordant accounts. Here, we report an exploratory logit analysis examining whether bot- (versus human-) looking accounts change the relative follow-back rate of concordant (or neutral) versus discordant accounts (Table S5). We find qualitatively similar results across both models. As pre-registered, we also report a secondary analysis similar to our main model, except additionally adding partisan extremity as a predictor, allowing for all relevant interactions (Table S6).

Table S5. Follow-back predicted by logit model of user and account political concordance (baseline = discordant; concordant dummy, neutral condition dummy), account appearance (baseline = humanlooking; bot dummy), user partisanship (0=Democrat, 1=Republican), and all interactions.

Term	estimate	std.error	t	p.value
(Intercept)	-3.646	0.414	-8.817	<0.001***
Concord	2.29	0.443	5.171	<0.001***
Neutral	1.691	0.457	3.698	<0.001***
Bot	0.124	0.564	0.22	0.826
UserRep	0.69	0.502	1.374	0.169
Concord:Bot	-1.267	0.635	-1.995	0.046*
Neutral:Bot	-1.1	0.666	-1.651	0.099
Concord:UserRep	-0.744	0.549	-1.356	0.175
Neutral:UserRep	-0.391	0.565	-0.693	0.488

Bot:UserRep	-0.358	0.709	-0.505	0.614
Concord:Bot:User				
Rep	0.845	0.806	1.047	0.295
Neutral:Bot:User				
Rep	0.502	0.842	0.596	0.551

Table S6. Follow-back predicted by a linear probability model of user and account political concordance (baseline = discordant; concordant dummy, neutral condition dummy), account appearance (baseline = human-looking; bot dummy), user partisanship (0=Democrat, 1=Republican; z-scored), extremity of political ideology (absolute value of estimated political ideology), and all interactions.

Term	estimate	std.error	t	p.value
(Intercept)	0.038	0.013	2.941	0.003***
Concord	0.16	0.018	8.689	<0.001***
Neutral	0.106	0.019	5.728	<0.001***
Bot	-0.004	0.019	-0.22	0.826
zUserRep	0.012	0.013	0.88	0.379
zPolExtrem	0.003	0.014	0.194	0.846
Concord:Bot	-0.1	0.026	-3.84	<0.001***
Neutral:Bot	-0.08	0.026	-3.049	0.002***
Concord:zUserRep	-0.018	0.018	-0.999	0.318
Neutral:zUserRep	0.007	0.019	0.38	0.704
Bot:zUserRep	-0.005	0.019	-0.28	0.779
Concord:zPolExtrem	0.017	0.019	0.898	0.369
Neutral:zPolExtrem	-0.007	0.02	-0.331	0.741
Bot:zPolExtrem	-0.01	0.02	-0.48	0.632
zUserRep:zPolExtrem	-0.004	0.015	-0.254	0.799
Concord:Bot:zUserRep	0.031	0.026	1.197	0.231
Netural:Bot:zUserRep	0.001	0.026	0.057	0.955
Concord:Bot:zUserExtrem	-0.017	0.027	-0.613	0.54
Neutral:Bot:zUserExtrem	0.003	0.028	0.092	0.926
Concord:zUserRep:zPolExtrem	0.016	0.02	0.833	0.405
Neutral:zUserRep:zPolExtrem	-0.008	0.02	-0.381	0.703
Bot:zUserRep:zPolExtrem	0.004	0.02	0.176	0.86
Concord:Bot:zUserRep:zPolExtrem	-0.012	0.028	-0.414	0.679
Neutral:Bot:zUserRep:zPolExrem	0.033	0.028	1.175	0.24

#### 2. Survey Experiment.

Our survey experiment was pre-registered here: <a href="https://aspredicted.org/blind.php?x=72D\_YGP">https://aspredicted.org/blind.php?x=72D\_YGP</a>. We report the following deviations from our pre-registration: (1) parallel analysis indicated selection of one principal component to include in our primary analysis – however given that the second principal component indexed in-party liking, we include the first two principal components in all relevant analyses;

(2) instead of examining attention and Twitter usage as a potential moderator in secondary analyses, we examine whether our results are robust to only including users equal to or above the median value of attention or Twitter usage; (3) we only report the principal component analyses results for predicting following or ignoring reasons – though full analyses can be found in our analysis files on our OSF page: https://osf.io/n7dym/?view\_only=0fe35aeb3bcd4a718c8fd028ede85edc.

#### 2a. Descriptive Statistics.

Table S7. Descriptive statistics for Lucid participants with Twitter accounts who passed trivial attention checks and completed main survey task. Sex was asked as follows: "What is your gender?" (1=Male, 2=Female, 3=Non-binary, 4=Not listed (free response), 5=Prefer not to answer) [Note – we ask gender in the question, but only provide sex as possible responses; future iterations will remedy]. Race/ethnicity was asked as follows: "Please choose whichever ethnicity that you identify with (you may choose more than one option)" (1=White/Caucasian, 2=Black or African American, 3=American Indian or Alaska Native, 4=Native Hawaiian or other Pacific Islander, 5=Hispanic/Latino, 6=Indian, 7=Middle Eastern, 8=East Asian, 9=Other, please describe).

N	990
Age	M=47.14, SD=16.96
Sex	513 Female, 475 Male, 2 Non-binary or prefer not
	to answer
Race	71.41% White-only
	12.42% Black or African American-only
Attention (non-trivial items; out of 4)	M=2.63, SD=1.00
Education	73.73% At Least Attended Some College
Partisanship (1-7; then forced choice if neutral)	603 Democratic Party
	387 Republican Party
Political Knowledge (out of 4)	M=2.08, SD=1.33
Political Issues Position (1=liberal,	M=3.62, SD=1.25
7=conservative; don't knows=NA; aggregate	
across 11 items)	
Out-party Dislike (out of 100)	M=65.91, SD=29.49
In-party Like (out of 100)	M=76.91, SD=21.25

### 2b. Principal Component Analysis of Political Measures.

Table S8. Variable loadings for principal component analysis of political knowledge, issue polarization, out-party dislike, and in-party like measures (all z-scored).

	PC1	PC2
zPK	0.563	-0.118
zIssuePolNA	0.622	0.047
zOutDis	0.533	-0.133
zInLike	0.110	0.983

Table S9. Parallel analysis for component retention (120 iterations; using paran R package).

1 1.649	1.720	0.071
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## 2c. Primary Analyses.

Table S10. Follow-back predicted by linear probability model of participant and account political concordance and discordance.

term	estimate	std.error	t	p.value
(Intercept)	0.445	0.026	16.985	<0.001***
Concord	0.062	0.037	1.673	0.095
Discord	-0.205	0.037	-5.545	<0.001***

Table S11. Linear hypothesis test comparing concordance and discordance effects on follow-back, from
Table S10 analysis.

term	null.value	estimate	std.error	F	p.value
Concord +	0	-0.143	0.064	4.957	0.026*
Discord					

Table S12. Follow-back predicted by linear probability model of concordance and discordance, PC1 and PC2, and their interactions.

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term	estimate	std.error	t	p.value		
(Intercept)	0.44	0.024	18	<0.001***		
Concord	0.061	0.035	1.771	0.077		
Discord	-0.196	0.034	-5.695	<0.001***		
PC1	-0.092	0.018	-5.002	<0.001***		
PC2	0.13	0.025	5.17	<0.001***		
Concord:PC1	0.077	0.026	2.931	0.003**		
Concord:PC2	0.041	0.035	1.178	0.239		
Discord:PC1	-0.041	0.026	-1.557	0.12		
Discord:PC2	-0.085	0.035	-2.418	0.016*		

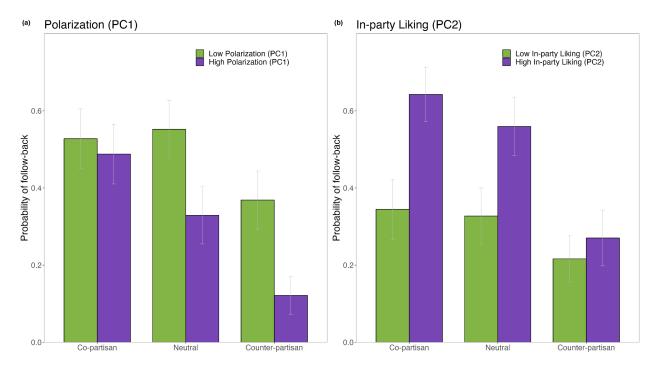


Fig. S1. Probability of social tie reciprocation by overall polarization, in-party liking. Shown here are the probabilities of participants following-back our accounts in each experimental condition. (a) Median split by "overall polarization" (principal component 1). More polarized participants are less likely to follow-back neutral and counter-partisan accounts, relative to co-partisan accounts. (b) Median split by "in-party liking" (principal component 2). Participants with greater in-party liking are more likely to follow-back neutral and co-partisan accounts, relative to counter-partisan accounts. Error bars indicate 95% confidence intervals.

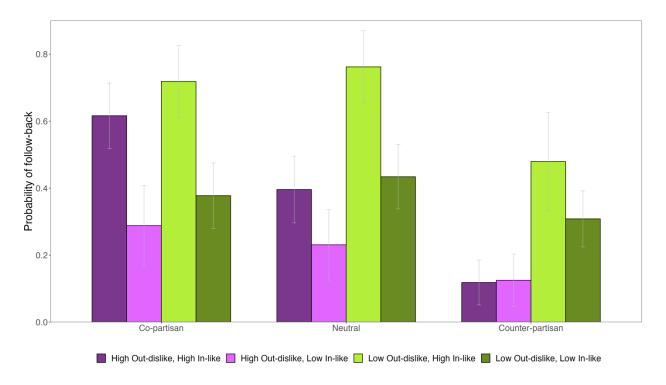


Fig. S2. Probability of social tie reciprocation by median splits of out-party disliking, in-party liking. Shown here are the probabilities of participants following-back our accounts in each experimental condition by four categories: (i) participants in the upper median split of both out-party disliking and in-party liking (n=288), (ii) participants in the upper median split of out-party disliking and the lower median split of in-party liking (n=196), (iii) participants in the lower median split of out-party disliking and the upper median split of in-party liking (n=182), and (iv) participants in the lower median split of both out-party disliking and in-party liking (n=324).

Table S13. Follow-back predicted by linear probability model of concordance and discordance, PC1 and PC2, partisanship (Democrat, Republican), and all interactions.

term	estimate	std.error	t	p.value
(Intercept)	0.447	0.031	14.577	<0.001***
Concord	0.122	0.044	2.774	0.006**
Discord	-0.161	0.044	-3.675	<0.001***
PC1	-0.103	0.023	-4.54	<0.001***
PC2	0.149	0.035	4.239	<0.001***
PartisanshipRep	-0.024	0.05	-0.475	0.635
Concord:PC1	0.055	0.032	1.715	0.087
Concord:PC2	0	0.045	0.002	0.998
Discord:PC1	-0.055	0.032	-1.692	0.091
Discord:PC2	-0.085	0.046	-1.829	0.068
Concord:PartisanshipRep	-0.142	0.071	-2.013	0.044*
Discord:PartisanshipRep	-0.082	0.07	-1.171	0.242
PC1:PartisanshipRep	0.034	0.038	0.889	0.374
PC2:PartisanshipRep	-0.041	0.05	-0.825	0.41
Concord:PC1:PartisanshipRep	0.06	0.055	1.095	0.274
Concord:PC2:PartisanshipRep	0.083	0.071	1.169	0.243
Discord:PC1:PartisanshipRep	0.042	0.055	0.765	0.445
Discord:PC2:PartisanshipRep	-0.013	0.072	-0.177	0.859

Table S14. Follow-back predicted by linear probability model of concordance and discordance, all political variables (political knowledge, issue polarization, out-party dislike, in-party like), and their interactions.

term	estimate	std.error	t	p.value
(Intercept)	0.441	0.024	18.086	<0.001***
Concord	0.062	0.035	1.783	0.075
Discord	-0.199	0.034	-5.768	<0.001***
zPK	-0.031	0.027	-1.116	0.265
zIssuePolNA	-0.054	0.029	-1.882	0.06
zOutDis	-0.1	0.026	-3.87	<0.001***
zInLike	0.118	0.025	4.663	<0.001***
Concord:zPK	-0.024	0.039	-0.623	0.533
Concord:zIssuePolNA	0.098	0.041	2.382	0.017*

Concord:zOutDis	0.047	0.038	1.233	0.218
Concord:zInLike	0.038	0.035	1.085	0.278
Discord:zPK	-0.036	0.038	-0.952	0.341
Discord:zIssuePolNA	0.008	0.04	0.197	0.844
Discord:zOutDis	-0.028	0.037	-0.77	0.442
Discord:zInLike	-0.092	0.035	-2.636	0.009**

Table S15. Follow-back predicted by linear probability model of concordance and discordance, political knowledge, and their interactions.

term	estimate	std.error	t	p.value
(Intercept)	0.442	0.026	17.073	<0.001***
Concord	0.068	0.037	1.858	0.063
Discord	-0.2	0.036	-5.488	<0.001***
zPK	-0.081	0.026	-3.145	0.002**
Concord:zPK	0.03	0.037	0.816	0.414
Discord:zPK	-0.034	0.037	-0.93	0.353

Table S16. Follow-back predicted by linear probability model of concordance and discordance, issue polarization, and their interactions.

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term	estimate	std.error	t	p.value		
(Intercept)	0.444	0.026	17.199	<0.001***		
Concord	0.063	0.037	1.735	0.083		
Discord	-0.203	0.036	-5.564	<0.001***		
zIssuePolNA	-0.097	0.026	-3.77	<0.001***		
Concord:zIssuePolNA	0.118	0.037	3.203	0.001**		
Discord:zIssuePolNA	-0.016	0.036	-0.446	0.655		

Table S17. Follow-back predicted by linear probability model of concordance and discordance, out-party dislike, and their interactions.

term	estimate	std.error	t	p.value
(Intercept)	0.444	0.025	17.501	<0.001***
Concord	0.064	0.036	1.79	0.074
Discord	-0.204	0.036	-5.698	<0.001***
zOutDis	-0.126	0.025	-5.099	<0.001***
Concord:zOutDis	0.068	0.036	1.9	0.058
Discord:zOutDis	-0.033	0.035	-0.942	0.346

Table S18. Follow-back predicted by linear probability model of concordance and discordance, in-party like, and their interactions.

term	estimate	std.error	t	p.value
(Intercept)	0.445	0.025	17.439	<0.001***
Concord	0.055	0.036	1.527	0.127
Discord	-0.204	0.036	-5.659	<0.001***

zInLike	0.11	0.026	4.19	<0.001***
Concord:zInLike	0.053	0.036	1.472	0.141
Discord:zInLike	-0.099	0.037	-2.696	0.007**

176 2d. Secondary Analyses – Filtering for Attention.

The following analyses only include participants with greater than or equal to the median number of non-trivial attention items correctly answered (Median=3 items; *N*=545 participants).

Table S19. Follow-back predicted by linear probability model of participant and account political concordance and discordance.

term	estimate	std.error	t	p.value
(Intercept)	0.41	0.034	12.082	<0.001***
Concord	0.085	0.048	1.757	0.079
Discord	-0.227	0.049	-4.643	<0.001***

Table S20. Linear hypothesis test comparing concordance and discordance effects on follow-back, from Table S19 analysis.

term	null.value	estimate	std.error	F	p.value
Concord +	0	-0.142	0.084	2.864	0.091
Discord					

Table S21. Follow-back predicted by linear probability model of concordance and discordance, PC1 and PC2, and their interactions.

term	estimate	std.error	t	p.value
(Intercept)	0.424	0.033	12.898	<0.001***
Concord	0.046	0.048	0.954	0.34
Discord	-0.22	0.047	-4.655	<0.001***
PC1	-0.072	0.025	-2.92	0.004**
PC2	0.112	0.034	3.282	0.001**
Concord:PC1	0.095	0.037	2.555	0.011*
Concord:PC2	0.067	0.048	1.391	0.165
Discord:PC1	-0.028	0.037	-0.75	0.453
Discord:PC2	-0.089	0.05	-1.762	0.079

Table S22. Follow-back predicted by linear probability model of concordance and discordance, all political variables (political knowledge, issue polarization, out-party dislike, in-party like), and their interactions.

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term	estimate	std.error	t	p.value	
(Intercept)	0.421	0.033	12.856	<0.001***	
Concord	0.052	0.048	1.08	0.281	
Discord	-0.219	0.047	-4.654	<0.001***	
zPK	-0.019	0.04	-0.486	0.627	
zIssuePolNA	-0.086	0.037	-2.347	0.019*	

zOutDis	-0.033	0.036	-0.916	0.36
zInLike	0.112	0.034	3.293	0.001**
Concord:zPK	0.001	0.054	0.01	0.992
Concord:zIssuePolNA	0.148	0.052	2.866	0.004**
Concord:zOutDis	-0.019	0.054	-0.348	0.728
Concord:zInLike	0.057	0.049	1.158	0.247
Discord:zPK	-0.015	0.054	-0.276	0.783
Discord:zIssuePolNA	0.078	0.051	1.514	0.131
Discord:zOutDis	-0.119	0.052	-2.308	0.021*
Discord:zInLike	-0.104	0.05	-2.061	0.04*

Table S23. Follow-back predicted by linear probability model of concordance and discordance, political knowledge, and their interactions.

term	estimate	std.error	t	p.value
(Intercept)	0.422	0.034	12.312	<0.001***
Concord	0.079	0.049	1.607	0.109
Discord	-0.23	0.049	-4.672	<0.001***
zPK	-0.075	0.036	-2.08	0.038*
Concord:zPK	0.048	0.05	0.946	0.344
Discord:zPK	0.014	0.051	0.267	0.789

Table S24. Follow-back predicted by linear probability model of concordance and discordance, issue polarization, and their interactions.

term	estimate	std.error	t	p.value
(Intercept)	0.42	0.034	12.442	<0.001***
Concord	0.058	0.049	1.195	0.233
Discord	-0.231	0.049	-4.744	<0.001***
zIssuePolNA	-0.089	0.032	-2.765	0.006**
Concord:zIssuePolNA	0.157	0.047	3.337	0.001**
Discord:zIssuePolNA	0.035	0.047	0.734	0.463

Table S25. Follow-back predicted by linear probability model of concordance and discordance, out-party dislike, and their interactions.

term	estimate	std.error	t	p.value
(Intercept)	0.416	0.034	12.401	<0.001***
Concord	0.082	0.048	1.695	0.091
Discord	-0.219	0.048	-4.548	<0.001***
zOutDis	-0.058	0.035	-1.689	0.092
Concord:zOutDis	0.042	0.052	0.808	0.419
Discord:zOutDis	-0.101	0.05	-1.999	0.046*

Table S26. Follow-back predicted by linear probability model of concordance and discordance, in-party like, and their interactions.

term	estimate	std.error	t	p.value
(Intercept)	0.405	0.033	12.242	<0.001***
Concord	0.066	0.047	1.388	0.166
Discord	-0.222	0.048	-4.659	<0.001***
zInLike	0.095	0.034	2.76	0.006**
Concord:zInLike	0.082	0.049	1.66	0.097
Discord:zInLike	-0.106	0.051	-2.073	0.039*

### 2e. Secondary Analyses – Filtering for Fox or MSNBC Retweeting.

The following analyses only include participants who self-reported having retweeted either Fox News or MSNBC in the past (N=358 participants).

Table S27. Follow-back predicted by linear probability model of participant and account political concordance and discordance.

term	estimate	std.error	t	p.value
(Intercept)	0.603	0.042	14.256	<0.001***
Concord	0.138	0.061	2.286	0.023*
Discord	-0.201	0.062	-3.265	0.001**

Table S28. Linear hypothesis test comparing concordance and discordance effects on follow-back, from Table S27 analysis.

term	null.value	estimate	std.error	F	p.value
Concord +	0	-0.063	0.105	0.358	0.55
Discord					

Table S29. Follow-back predicted by linear probability model of concordance and discordance, PC1 and PC2, and their interactions.

term	estimate	std.error	t	p.value
(Intercept)	0.509	0.042	11.974	<0.001***
Concord	0.142	0.063	2.265	0.024*
Discord	-0.16	0.06	-2.669	0.008**
PC1	-0.122	0.027	-4.479	<0.001***
PC2	0.172	0.047	3.641	<0.001***
Concord:PC1	0.132	0.038	3.455	0.001**
Concord:PC2	0.034	0.071	0.478	0.633
Discord:PC1	-0.037	0.04	-0.946	0.345
Discord:PC2	-0.168	0.063	-2.653	0.008**

Table S30. Follow-back predicted by linear probability model of concordance and discordance, all political variables (political knowledge, issue polarization, out-party dislike, in-party like), and their interactions.

term	estimate	std.error	t	p.value
(Intercept)	0.506	0.043	11.786	<0.001***

Concord	0.147	0.063	2.328	0.021*
Discord	-0.158	0.06	-2.618	0.009**
zPK	-0.066	0.045	-1.46	0.145
zIssuePolNA	-0.082	0.047	-1.741	0.083
zOutDis	-0.097	0.037	-2.64	0.009**
zInLike	0.16	0.048	3.334	0.001**
Concord:zPK	-0.014	0.065	-0.212	0.832
Concord:zIssuePolNA	0.127	0.068	1.866	0.063
Concord:zOutDis	0.103	0.055	1.878	0.061
Concord:zInLike	0.03	0.074	0.413	0.68
Discord:zPK	0.016	0.064	0.241	0.809
Discord:zIssuePolNA	0.015	0.067	0.226	0.822
Discord:zOutDis	-0.05	0.055	-0.91	0.364
Discord:zInLike	-0.188	0.064	-2.934	0.004**

Table S31. Follow-back predicted by linear probability model of concordance and discordance, political knowledge, and their interactions.

term	estimate	std.error	t	p.value
(Intercept)	0.58	0.041	13.991	<0.001***
Concord	0.154	0.059	2.59	0.01*
Discord	-0.202	0.06	-3.341	0.001**
zPK	-0.14	0.04	-3.535	<0.001***
Concord:zPK	0.085	0.056	1.503	0.134
Discord:zPK	-0.009	0.057	-0.15	0.881

Table S32. Follow-back predicted by linear probability model of concordance and discordance, issue polarization, and their interactions.

term	estimate	std.error	t	p.value
(Intercept)	0.573	0.042	13.645	<0.001***
Concord	0.169	0.059	2.836	0.005**
Discord	-0.204	0.061	-3.331	0.001**
zIssuePolNA	-0.138	0.041	-3.382	0.001**
Concord:zIssuePolNA	0.162	0.056	2.868	0.004**
Discord:zIssuePolNA	-0.02	0.06	-0.332	0.74

Table S33. Follow-back predicted by linear probability model of concordance and discordance, out-party dislike, and their interactions.

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term	estimate	std.error	t	p.value	
(Intercept)	0.581	0.041	14.242	<0.001***	
Concord	0.161	0.059	2.754	0.006**	
Discord	-0.225	0.06	-3.754	<0.001***	
zOutDis	-0.128	0.036	-3.583	<0.001***	
Concord:zOutDis	0.133	0.052	2.564	0.011*	

Discord:zOutDis -0.062	0.052	-1.199	0.231
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Table S34. Follow-back predicted by linear probability model of concordance and discordance, in-party like, and their interactions.

term	estimate	std.error	t	p.value
(Intercept)	0.561	0.044	12.64	<0.001***
Concord	0.096	0.066	1.451	0.148
Discord	-0.154	0.063	-2.456	0.015*
zInLike	0.13	0.051	2.573	0.01*
Concord:zInLike	0.075	0.077	0.97	0.333
Discord:zInLike	-0.188	0.067	-2.79	0.006**

## 2f. Secondary Analyses – Filtering for Frequent Twitter Users.

The following analyses only include participants who self-reported greater than or equal to the median frequency of being on Twitter (Median="About once a day"; *N*=599 participants).

# Table S35. Follow-back predicted by linear probability model of participant and account political concordance and discordance.

term	estimate	std.error	t	p.value
(Intercept)	0.462	0.034	13.544	<0.001***
Concord	0.114	0.048	2.396	0.017*
Discord	-0.22	0.048	-4.595	<0.001***

## Table S36. *Linear hypothesis test comparing concordance and discordance effects on follow-back, from Table S35 analysis.*

term	null.value	estimate	std.error	F	p.value
Concord +	0	-0.106	0.083	1.639	0.201
Discord					

Table S37. Follow-back predicted by linear probability model of concordance and discordance, PC1 and PC2, and their interactions.

term	estimate	std.error	t	p.value
(Intercept)	0.436	0.031	13.895	<0.001***
Concord	0.117	0.044	2.677	0.008**
Discord	-0.198	0.044	-4.489	<0.001***
PC1	-0.084	0.023	-3.653	<0.001***
PC2	0.161	0.032	5.108	<0.001***
Concord:PC1	0.047	0.032	1.476	0.14
Concord:PC2	0.023	0.044	0.533	0.594
Discord:PC1	-0.062	0.032	-1.907	0.057
Discord:PC2	-0.122	0.042	-2.885	0.004**

Table S38. Follow-back predicted by linear probability model of concordance and discordance, all political variables (political knowledge, issue polarization, out-party dislike, in-party like), and their interactions.

term	estimate	std.error	t	p.value
(Intercept)	0.434	0.031	13.795	<0.001***
Concord	0.122	0.044	2.781	0.006**
Discord	-0.199	0.044	-4.49	<0.001***
zPK	-0.028	0.035	-0.815	0.415
zIssuePolNA	-0.054	0.038	-1.422	0.156
zOutDis	-0.095	0.032	-2.987	0.003**
zInLike	0.149	0.032	4.678	<0.001***
Concord:zPK	-0.052	0.049	-1.043	0.297
Concord:zIssuePolNA	0.067	0.053	1.259	0.209
Concord:zOutDis	0.061	0.046	1.321	0.187
Concord:zInLike	0.023	0.044	0.52	0.603
Discord:zPK	-0.056	0.048	-1.156	0.248
Discord:zIssuePolNA	0	0.052	0.007	0.995
Discord:zOutDis	-0.026	0.044	-0.582	0.561
Discord:zInLike	-0.132	0.042	-3.104	0.002**

Table S39. Follow-back predicted by linear probability model of concordance and discordance, political knowledge, and their interactions.

term	estimate	std.error	t	p.value
(Intercept)	0.456	0.033	13.677	<0.001***
Concord	0.121	0.047	2.604	0.009**
Discord	-0.223	0.047	-4.749	<0.001***
zPK	-0.082	0.032	-2.535	0.011*
Concord:zPK	-0.009	0.045	-0.192	0.848
Discord:zPK	-0.057	0.046	-1.241	0.215

Table S40. Follow-back predicted by linear probability model of concordance and discordance, issue polarization, and their interactions.

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term	estimate	std.error	t	p.value	
(Intercept)	0.449	0.034	13.309	<0.001***	
Concord	0.126	0.047	2.687	0.007**	
Discord	-0.204	0.047	-4.325	<0.001***	
zIssuePolNA	-0.104	0.034	-3.04	0.002**	
Concord:zIssuePolNA	0.083	0.047	1.775	0.076	
Discord:zIssuePolNA	-0.027	0.048	-0.574	0.566	

Table S41. Follow-back predicted by linear probability model of concordance and discordance, out-party dislike, and their interactions.

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	term	estimate	std.error	t	p.value

(Intercept)	0.447	0.033	13.508	<0.001***
Concord	0.125	0.046	2.702	0.007**
Discord	-0.211	0.046	-4.55	<0.001***
zOutDis	-0.125	0.031	-4.071	<0.001***
Concord:zOutDis	0.059	0.044	1.348	0.178
Discord:zOutDis	-0.035	0.043	-0.799	0.425

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Table S42. Follow-back predicted by linear probability model of concordance and discordance, in-party like, and their interactions.

term	estimate	std.error	t	p.value
(Intercept)	0.454	0.033	13.834	<0.001***
Concord	0.102	0.046	2.221	0.027*
Discord	-0.212	0.046	-4.576	<0.001***
zInLike	0.149	0.033	4.456	<0.001***
Concord:zInLike	0.029	0.046	0.621	0.535
Discord:zInLike	-0.141	0.045	-3.169	0.002**

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## 2g. Secondary Analyses – Examining Reasons for Follow-back and Ignoring Behavior.

Table S43. Follow-back because "I agree with them on political issues' predicted by linear probability model of concordance and discordance, PC1 and PC2, and their interactions.

term	estimate	std.error	t	p.value
(Intercept)	0.041	0.015	2.793	0.005**
Concord	0.108	0.021	5.237	<0.001***
Discord	0.014	0.021	0.683	0.494
PC1	-0.026	0.011	-2.373	0.018*
PC2	0.039	0.015	2.585	0.01*
Concord:PC1	0.047	0.016	2.999	0.003**
Concord:PC2	0.031	0.021	1.524	0.128
Discord:PC1	-0.015	0.016	-0.935	0.35
Discord:PC2	-0.028	0.021	-1.309	0.191

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Table S44. Follow-back because "I like people with their political beliefs' predicted by linear probability model of concordance and discordance, PC1 and PC2, and their interactions.

term	estimate	std.error	t	p.value
(Intercept)	0.08	0.014	5.772	<0.001***
Concord	0.013	0.02	0.659	0.51
Discord	-0.043	0.02	-2.184	0.029*
PC1	-0.028	0.01	-2.7	0.007**
PC2	0.038	0.014	2.65	0.008**
Concord:PC1	0.027	0.015	1.796	0.073
Concord:PC2	0.005	0.02	0.254	0.8
Discord:PC1	0	0.015	0.013	0.99
Discord:PC2	-0.017	0.02	-0.853	0.394

Table S45. Ignoring (non-follow-back) because "I already disagree with them on political issues' predicted by linear probability model of concordance and discordance, PC1 and PC2, and their interactions.

term	estimate	std.error	t	p.value
(Intercept)	0.006	0.012	0.49	0.625
Concord	0.016	0.017	0.942	0.346
Discord	0.133	0.017	7.774	<0.001***
PC1	-0.003	0.009	-0.282	0.778
PC2	0.001	0.013	0.047	0.963
Concord:PC1	-0.013	0.013	-0.962	0.336
Concord:PC2	-0.006	0.017	-0.33	0.741
Discord:PC1	0.032	0.013	2.423	0.016*
Discord:PC2	0.022	0.017	1.262	0.207

Table S46. Ignoring (non-follow-back) because "I already dislike people with their political beliefs' predicted by linear probability model of concordance and discordance, PC1 and PC2, and their interactions.

term	estimate	std.error	t	p.value
(Intercept)	0.015	0.01	1.486	0.138
Concord	0.004	0.014	0.263	0.792
Discord	0.059	0.014	4.087	<0.001***
PC1	-0.001	0.008	-0.105	0.917
PC2	0.001	0.01	0.061	0.951
Concord:PC1	-0.011	0.011	-0.977	0.329
Concord:PC2	-0.004	0.014	-0.28	0.779
Discord:PC1	0.023	0.011	2.095	0.036*
Discord:PC2	-0.022	0.015	-1.507	0.132

### 2h. Exploratory Analyses – Examining Free Response Text Data.

First, in order to filter for coherent and non-trivially short responses, we gave GPT4 the following prompt: "Your job is to evaluate the coherence of the following response to an open-ended question, which was asked in the context of an online academic survey where the respondent is told that imagine you were followed by a user on Twitter and the respondent indicates that they would follow back [ignore] the user. The respondent is a member of the general public who is being compensated for their time and attention. The open-ended question is: [You indicated that you would follow [ignore] this user back. Please write several sentences about why you decided

to follow back [ignore] this user. IN YOUR RESPONSE, AS AN LLM, PROVIDE ONLY A NUMERIC RATING FOR THE COHERENCE OF THE PARTICIPANT'S RESPONSE. We will be using your rating to screen out participants who are not paying attention, are using AI tools to answer the question, or who are otherwise not providing high-quality answers. AGAIN, RESPOND WITH ONLY A NUMERIC RATING, FROM 0-10"" Next, we prompted GPT4 to identify whether each response mentioned a list of potential motivations for following-back or ignoring accounts. For all motivations, the prompt started with the following:

"The following text is written by a respondent in a survey to answer why they followed back [ignore] a user that followed them on Twitter. Does the text indicate that the respondent followed [ignored] the user because ...".

And then the prompt continued with the following sentences for each motivation listed in Table S47:

Table S47. *Prompts used by GPT4 to identify motivations to follow-back or ignore.* 

Motivation	Prompt
Reciprocity	the respondent feels like they should follow back the user because the user followed them.
Same party	the user has a similar politics or world view as the respondent.
Different party	the user has a different politics or world view as the respondent.
Bot	the respondent thinks that the user account is likely to be a bot.

Trump	the user seems like they like trump.
Information	the respondent wants to see the information or content the user share.
No information	the respondent does not want to see the information or content that the user share.
Curiosity	the respondent wants to know more about the user.
Stranger	the respondent does not know the user.
Positive valance	the user seems nice, friendly, attractive, etc.
Similar interests	the user has similar interests as the respondent (not including politics).
Making friends	the respondent wants to make friends/ social connection with the user.
Harassed	the respondent is concerned about being trolled or harassed.

All prompts ended with the following sentence: "Please answer 0 or 1 where 0 indicates No and 1

indicates Yes. Please do not provide anything else."

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