

Title: Statistical Tests for Figures appendix for “Do language models favor their home countries? Asymmetric propagation of positive misinformation and foreign influence audits”

Authors: Ho-Chun Herbert Chang (1), Tracy Weener (1), Yung-Chun Chen (1), Sean Noh (1), Mingyue Zha (1), and Hsuan Lo (1)

Date: September 22nd, 2025

Note: The material contained herein is supplementary to the article named in the title and published in the Harvard Kennedy School (HKS) Misinformation Review.

Appendix G: Statistical Tests for Figures

Table G1. Anova results for Figure 1.

Leader	<i>F</i>	<i>p</i> -value	df _{model}	df _{resid}
RQ4_Xi_Jinping	6807.31	< .001	3	31249
RQ4_Joe_Biden	1239.34	< .001	3	31249
RQ4_Donald_Trump	1206.16	< .001	3	31249
RQ4_Vladimir_Putin	2663.93	< .001	3	31249
RQ4_Volodymyr_Zelenskyy	361.18	< .001	3	31249
RQ4_Emmanuel_Macron	3323.90	< .001	3	31049
RQ5_Xi_Jinping	5669.37	< .001	3	31249
RQ5_Joe_Biden	642.29	< .001	3	31249
RQ5_Donald_Trump	1640.23	< .001	3	31249
RQ5_Vladimir_Putin	5657.58	< .001	3	31249
RQ5_Volodymyr_Zelenskyy	3453.09	< .001	3	31249
RQ5_Emmanuel_Macron	866.11	< .001	3	31049
RQ8_Xi_Jinping	6619.72	< .001	3	31249
RQ8_Joe_Biden	161.80	< .001	3	31249
RQ8_Donald_Trump	1396.77	< .001	3	31249
RQ8_Vladimir_Putin	4438.96	< .001	3	31249

Leader	<i>F</i>	<i>p</i> -value	df _{model}	df _{resid}
RQ8_Volodymyr_Zelenskyy	463.61	< .001	3	31249
RQ8_Emmanuel_Macron	345.56	< .001	3	31049
RQ9_Xi_Jinping	7496.86	< .001	3	31249
RQ9_Joe_Biden	988.44	< .001	3	31249
RQ9_Donald_Trump	4857.64	< .001	3	31249
RQ9_Vladimir_Putin	1443.96	< .001	3	31249
RQ9_Volodymyr_Zelenskyy	1212.04	< .001	3	31249
RQ9_Emmanuel_Macron	2419.26	< .001	3	31049

Table G2. Tukey results for Figure 1.

Leader	Group 1	Group 2	Mean diff	<i>p</i> -adj	CI		Reject null
					Lower	Upper	
RQ4_Xi_Jinping	DeepSeek Chat	Mistral AI	-1.06	<0.001	-1.10	-1.03	TRUE
RQ4_Xi_Jinping	DeepSeek Chat	OpenAI GPT-4o	-1.38	<0.001	-1.41	-1.34	TRUE
RQ4_Xi_Jinping	DeepSeek Chat	xAI Grok	-1.64	<0.001	-1.67	-1.60	TRUE
RQ4_Xi_Jinping	Mistral AI	OpenAI GPT-4o	-0.31	<0.001	-0.35	-0.28	TRUE
RQ4_Xi_Jinping	Mistral AI	xAI Grok	-0.57	<0.001	-0.61	-0.54	TRUE
RQ4_Xi_Jinping	OpenAI GPT-4o	xAI Grok	-0.26	<0.001	-0.30	-0.22	TRUE
RQ4_Joe_Biden	DeepSeek Chat	Mistral AI	0.01	0.948	-0.03	0.05	FALSE
RQ4_Joe_Biden	DeepSeek Chat	OpenAI GPT-4o	0.28	<0.001	0.24	0.31	TRUE
RQ4_Joe_Biden	DeepSeek Chat	xAI Grok	-0.21	<0.001	-0.25	-0.17	TRUE

Leader	Group 1	Group 2	Mean diff	p-adj	CI		Reject null
					Lower	Upper	
RQ4_Joe_Biden	Mistral AI	OpenAI GPT-4o	0.27	<0.001	0.23	0.30	TRUE
RQ4_Joe_Biden	Mistral AI	xAI Grok	-0.22	<0.001	-0.25	-0.18	TRUE
RQ4_Joe_Biden	OpenAI GPT-4o	xAI Grok	-0.48	<0.001	-0.52	-0.45	TRUE
RQ4_Donald_Trump	DeepSeek Chat	Mistral AI	-0.60	<0.001	-0.64	-0.56	TRUE
RQ4_Donald_Trump	DeepSeek Chat	OpenAI GPT-4o	-0.57	<0.001	-0.61	-0.54	TRUE
RQ4_Donald_Trump	DeepSeek Chat	xAI Grok	-0.78	<0.001	-0.81	-0.74	TRUE
RQ4_Donald_Trump	Mistral AI	OpenAI GPT-4o	0.03	0.269	-0.01	0.06	FALSE
RQ4_Donald_Trump	Mistral AI	xAI Grok	-0.18	<0.001	-0.21	-0.14	TRUE
RQ4_Donald_Trump	OpenAI GPT-4o	xAI Grok	-0.20	<0.001	-0.24	-0.17	TRUE
RQ4_Vladimir_Putin	DeepSeek Chat	Mistral AI	-0.70	<0.001	-0.75	-0.66	TRUE
RQ4_Vladimir_Putin	DeepSeek Chat	OpenAI GPT-4o	-0.46	<0.001	-0.50	-0.41	TRUE
RQ4_Vladimir_Putin	DeepSeek Chat	xAI Grok	-1.17	<0.001	-1.21	-1.12	TRUE
RQ4_Vladimir_Putin	Mistral AI	OpenAI GPT-4o	0.25	<0.001	0.20	0.29	TRUE
RQ4_Vladimir_Putin	Mistral AI	xAI Grok	-0.46	<0.001	-0.51	-0.42	TRUE
RQ4_Vladimir_Putin	OpenAI GPT-4o	xAI Grok	-0.71	<0.001	-0.76	-0.66	TRUE
RQ4_Volodymyr_Zelenskyy	DeepSeek Chat	Mistral AI	0.00	1.000	-0.03	0.03	FALSE
RQ4_Volodymyr_Zelenskyy	DeepSeek Chat	OpenAI GPT-4o	-0.11	<0.001	-0.14	-0.09	TRUE
RQ4_Volodymyr_Zelenskyy	DeepSeek Chat	xAI Grok	0.01	0.813	-0.02	0.04	FALSE
RQ4_Volodymyr_Zelenskyy	Mistral AI	OpenAI GPT-4o	-0.12	<0.001	-0.14	-0.09	TRUE

Leader	Group 1	Group 2	Mean diff	p -adj	CI		Reject null
					Lower	Upper	
RQ4_Volodymyr_Zelenskyy	Mistral AI	xAI Grok	0.01	0.847	-0.02	0.04	FALSE
RQ4_Volodymyr_Zelenskyy	OpenAI GPT-4o	xAI Grok	0.12	<0.001	0.10	0.15	TRUE
RQ4_Emanuel_Macron	DeepSeek Chat	Mistral AI	-0.76	<0.001	-0.79	-0.73	TRUE
RQ4_Emanuel_Macron	DeepSeek Chat	OpenAI GPT-4o	-0.35	<0.001	-0.38	-0.32	TRUE
RQ4_Emanuel_Macron	DeepSeek Chat	xAI Grok	-0.99	<0.001	-1.02	-0.96	TRUE
RQ4_Emanuel_Macron	Mistral AI	OpenAI GPT-4o	0.41	<0.001	0.38	0.44	TRUE
RQ4_Emanuel_Macron	Mistral AI	xAI Grok	-0.23	<0.001	-0.26	-0.20	TRUE
RQ4_Emanuel_Macron	OpenAI GPT-4o	xAI Grok	-0.64	<0.001	-0.67	-0.61	TRUE
RQ5_Xi_Jinping	DeepSeek Chat	Mistral AI	-1.23	<0.001	-1.27	-1.19	TRUE
RQ5_Xi_Jinping	DeepSeek Chat	OpenAI GPT-4o	-1.02	<0.001	-1.06	-0.98	TRUE
RQ5_Xi_Jinping	DeepSeek Chat	xAI Grok	-1.79	<0.001	-1.83	-1.75	TRUE
RQ5_Xi_Jinping	Mistral AI	OpenAI GPT-4o	0.21	<0.001	0.17	0.25	TRUE
RQ5_Xi_Jinping	Mistral AI	xAI Grok	-0.56	<0.001	-0.60	-0.53	TRUE
RQ5_Xi_Jinping	OpenAI GPT-4o	xAI Grok	-0.77	<0.001	-0.81	-0.73	TRUE
RQ5_Joe_Biden	DeepSeek Chat	Mistral AI	-0.16	<0.001	-0.21	-0.12	TRUE
RQ5_Joe_Biden	DeepSeek Chat	OpenAI GPT-4o	-0.17	<0.001	-0.21	-0.13	TRUE
RQ5_Joe_Biden	DeepSeek Chat	xAI Grok	-0.71	<0.001	-0.76	-0.67	TRUE
RQ5_Joe_Biden	Mistral AI	OpenAI GPT-4o	-0.01	0.936	-0.05	0.03	FALSE
RQ5_Joe_Biden	Mistral AI	xAI Grok	-0.55	<0.001	-0.59	-0.51	TRUE

Leader	Group 1	Group 2	Mean diff	p -adj	CI		Reject null
					Lower	Upper	
RQ5_Joe_Biden	OpenAI GPT-4o	xAI Grok	-0.54	<0.001	-0.58	-0.50	TRUE
RQ5_Donald_Trump	DeepSeek Chat	Mistral AI	-0.21	<0.001	-0.25	-0.18	TRUE
RQ5_Donald_Trump	DeepSeek Chat	OpenAI GPT-4o	0.13	<0.001	0.10	0.17	TRUE
RQ5_Donald_Trump	DeepSeek Chat	xAI Grok	-0.26	<0.001	-0.30	-0.23	TRUE
RQ5_Donald_Trump	Mistral AI	OpenAI GPT-4o	0.35	<0.001	0.31	0.38	TRUE
RQ5_Donald_Trump	Mistral AI	xAI Grok	-0.05	0.002	-0.09	-0.01	TRUE
RQ5_Donald_Trump	OpenAI GPT-4o	xAI Grok	-0.40	<0.001	-0.43	-0.36	TRUE
RQ5_Vladimir_Putin	DeepSeek Chat	Mistral AI	-0.62	<0.001	-0.67	-0.57	TRUE
RQ5_Vladimir_Putin	DeepSeek Chat	OpenAI GPT-4o	0.13	<0.001	0.08	0.18	TRUE
RQ5_Vladimir_Putin	DeepSeek Chat	xAI Grok	-1.10	<0.001	-1.15	-1.05	TRUE
RQ5_Vladimir_Putin	Mistral AI	OpenAI GPT-4o	0.75	<0.001	0.70	0.80	TRUE
RQ5_Vladimir_Putin	Mistral AI	xAI Grok	-0.48	<0.001	-0.53	-0.43	TRUE
RQ5_Vladimir_Putin	OpenAI GPT-4o	xAI Grok	-1.23	<0.001	-1.28	-1.18	TRUE
RQ5_Volodymyr_Zelenskyy	DeepSeek Chat	Mistral AI	-0.62	<0.001	-0.66	-0.58	TRUE
RQ5_Volodymyr_Zelenskyy	DeepSeek Chat	OpenAI GPT-4o	-0.99	<0.001	-1.03	-0.95	TRUE
RQ5_Volodymyr_Zelenskyy	DeepSeek Chat	xAI Grok	-0.64	<0.001	-0.68	-0.60	TRUE
RQ5_Volodymyr_Zelenskyy	Mistral AI	OpenAI GPT-4o	-0.37	<0.001	-0.41	-0.33	TRUE
RQ5_Volodymyr_Zelenskyy	Mistral AI	xAI Grok	-0.02	0.430	-0.07	0.02	FALSE
RQ5_Volodymyr_Zelenskyy	OpenAI GPT-4o	xAI Grok	0.35	<0.001	0.31	0.39	TRUE

Leader	Group 1	Group 2	Mean diff	p-adj	CI		Reject null
					Lower	Upper	
RQ5_Emmanuel_Macron	DeepSeek Chat	Mistral AI	-0.42	<0.001	-0.46	-0.38	TRUE
RQ5_Emmanuel_Macron	DeepSeek Chat	OpenAI GPT-4o	-0.39	<0.001	-0.43	-0.35	TRUE
RQ5_Emmanuel_Macron	DeepSeek Chat	xAI Grok	-0.87	<0.001	-0.91	-0.83	TRUE
RQ5_Emmanuel_Macron	Mistral AI	OpenAI GPT-4o	0.03	0.152	-0.01	0.07	FALSE
RQ5_Emmanuel_Macron	Mistral AI	xAI Grok	-0.45	<0.001	-0.49	-0.41	TRUE
RQ5_Emmanuel_Macron	OpenAI GPT-4o	xAI Grok	-0.48	<0.001	-0.52	-0.44	TRUE
RQ8_Xi_Jinping	DeepSeek Chat	Mistral AI	-1.17	<0.001	-1.23	-1.12	TRUE
RQ8_Xi_Jinping	DeepSeek Chat	OpenAI GPT-4o	-0.03	0.425	-0.09	0.02	FALSE
RQ8_Xi_Jinping	DeepSeek Chat	xAI Grok	-1.67	<0.001	-1.72	-1.61	TRUE
RQ8_Xi_Jinping	Mistral AI	OpenAI GPT-4o	1.14	<0.001	1.09	1.20	TRUE
RQ8_Xi_Jinping	Mistral AI	xAI Grok	-0.49	<0.001	-0.55	-0.44	TRUE
RQ8_Xi_Jinping	OpenAI GPT-4o	xAI Grok	-1.63	<0.001	-1.69	-1.58	TRUE
RQ8_Joe_Biden	DeepSeek Chat	Mistral AI	-0.23	<0.001	-0.28	-0.19	TRUE
RQ8_Joe_Biden	DeepSeek Chat	OpenAI GPT-4o	-0.22	<0.001	-0.26	-0.17	TRUE
RQ8_Joe_Biden	DeepSeek Chat	xAI Grok	-0.34	<0.001	-0.39	-0.30	TRUE
RQ8_Joe_Biden	Mistral AI	OpenAI GPT-4o	0.02	0.708	-0.03	0.06	FALSE
RQ8_Joe_Biden	Mistral AI	xAI Grok	-0.11	<0.001	-0.15	-0.07	TRUE
RQ8_Joe_Biden	OpenAI GPT-4o	xAI Grok	-0.13	<0.001	-0.17	-0.08	TRUE
RQ8_Donald_Trump	DeepSeek Chat	Mistral AI	-0.37	<0.001	-0.41	-0.33	TRUE

Leader	Group 1	Group 2	Mean diff	p-adj	CI		Reject null
					Lower	Upper	
RQ8_Donald_Trump	DeepSeek Chat	OpenAI GPT-4o	-0.07	<0.001	-0.11	-0.03	TRUE
RQ8_Donald_Trump	DeepSeek Chat	xAI Grok	-0.28	<0.001	-0.32	-0.24	TRUE
RQ8_Donald_Trump	Mistral AI	OpenAI GPT-4o	0.30	<0.001	0.26	0.34	TRUE
RQ8_Donald_Trump	Mistral AI	xAI Grok	0.09	<0.001	0.05	0.12	TRUE
RQ8_Donald_Trump	OpenAI GPT-4o	xAI Grok	-0.21	<0.001	-0.25	-0.18	TRUE
RQ8_Vladimir_Putin	DeepSeek Chat	Mistral AI	-0.52	<0.001	-0.58	-0.46	TRUE
RQ8_Vladimir_Putin	DeepSeek Chat	OpenAI GPT-4o	0.53	<0.001	0.47	0.59	TRUE
RQ8_Vladimir_Putin	DeepSeek Chat	xAI Grok	-0.53	<0.001	-0.59	-0.47	TRUE
RQ8_Vladimir_Putin	Mistral AI	OpenAI GPT-4o	1.05	<0.001	0.99	1.11	TRUE
RQ8_Vladimir_Putin	Mistral AI	xAI Grok	-0.01	0.962	-0.07	0.05	FALSE
RQ8_Vladimir_Putin	OpenAI GPT-4o	xAI Grok	-1.06	<0.001	-1.12	-1.00	TRUE
RQ8_Volodymyr_Zelenskyy	DeepSeek Chat	Mistral AI	-0.16	<0.001	-0.19	-0.13	TRUE
RQ8_Volodymyr_Zelenskyy	DeepSeek Chat	OpenAI GPT-4o	-0.02	0.554	-0.05	0.02	FALSE
RQ8_Volodymyr_Zelenskyy	DeepSeek Chat	xAI Grok	0.08	<0.001	0.04	0.11	TRUE
RQ8_Volodymyr_Zelenskyy	Mistral AI	OpenAI GPT-4o	0.14	<0.001	0.11	0.18	TRUE
RQ8_Volodymyr_Zelenskyy	Mistral AI	xAI Grok	0.24	<0.001	0.20	0.27	TRUE
RQ8_Volodymyr_Zelenskyy	OpenAI GPT-4o	xAI Grok	0.09	<0.001	0.06	0.13	TRUE
RQ8_Emmanuel_Macron	DeepSeek Chat	Mistral AI	-0.28	<0.001	-0.31	-0.24	TRUE
RQ8_Emmanuel_Macron	DeepSeek Chat	OpenAI GPT-4o	-0.22	<0.001	-0.25	-0.18	TRUE

Leader	Group 1	Group 2	Mean diff	p-adj	CI		Reject null
					Lower	Upper	
RQ8_Emmanuel_Macron	DeepSeek Chat	xAI Grok	-0.47	<0.001	-0.51	-0.43	TRUE
RQ8_Emmanuel_Macron	Mistral AI	OpenAI GPT-4o	0.06	<0.001	0.02	0.10	TRUE
RQ8_Emmanuel_Macron	Mistral AI	xAI Grok	-0.19	<0.001	-0.23	-0.15	TRUE
RQ8_Emmanuel_Macron	OpenAI GPT-4o	xAI Grok	-0.25	<0.001	-0.29	-0.21	TRUE
RQ9_Xi_Jinping	DeepSeek Chat	Mistral AI	-1.64	<0.001	-1.68	-1.60	TRUE
RQ9_Xi_Jinping	DeepSeek Chat	OpenAI GPT-4o	-1.28	<0.001	-1.32	-1.24	TRUE
RQ9_Xi_Jinping	DeepSeek Chat	xAI Grok	-1.49	<0.001	-1.53	-1.45	TRUE
RQ9_Xi_Jinping	Mistral AI	OpenAI GPT-4o	0.36	<0.001	0.32	0.40	TRUE
RQ9_Xi_Jinping	Mistral AI	xAI Grok	0.16	<0.001	0.12	0.20	TRUE
RQ9_Xi_Jinping	OpenAI GPT-4o	xAI Grok	-0.21	<0.001	-0.25	-0.17	TRUE
RQ9_Joe_Biden	DeepSeek Chat	Mistral AI	-0.07	<0.001	-0.11	-0.03	TRUE
RQ9_Joe_Biden	DeepSeek Chat	OpenAI GPT-4o	-0.10	<0.001	-0.13	-0.06	TRUE
RQ9_Joe_Biden	DeepSeek Chat	xAI Grok	-0.63	<0.001	-0.66	-0.59	TRUE
RQ9_Joe_Biden	Mistral AI	OpenAI GPT-4o	-0.03	0.173	-0.06	0.01	FALSE
RQ9_Joe_Biden	Mistral AI	xAI Grok	-0.56	<0.001	-0.60	-0.52	TRUE
RQ9_Joe_Biden	OpenAI GPT-4o	xAI Grok	-0.53	<0.001	-0.57	-0.50	TRUE
RQ9_Donald_Trump	DeepSeek Chat	Mistral AI	-0.65	<0.001	-0.69	-0.61	TRUE
RQ9_Donald_Trump	DeepSeek Chat	OpenAI GPT-4o	-0.21	<0.001	-0.25	-0.17	TRUE
RQ9_Donald_Trump	DeepSeek Chat	xAI Grok	-1.20	<0.001	-1.25	-1.16	TRUE

Leader	Group 1	Group 2	Mean diff	p-adj	CI		Reject null
					Lower	Upper	
RQ9_Donald_Trump	Mistral AI	OpenAI GPT-4o	0.44	<0.001	0.40	0.48	TRUE
RQ9_Donald_Trump	Mistral AI	xAI Grok	-0.55	<0.001	-0.59	-0.51	TRUE
RQ9_Donald_Trump	OpenAI GPT-4o	xAI Grok	-0.99	<0.001	-1.03	-0.95	TRUE
RQ9_Vladimir_Putin	DeepSeek Chat	Mistral AI	-0.95	<0.001	-1.00	-0.89	TRUE
RQ9_Vladimir_Putin	DeepSeek Chat	OpenAI GPT-4o	-0.71	<0.001	-0.76	-0.66	TRUE
RQ9_Vladimir_Putin	DeepSeek Chat	xAI Grok	-0.66	<0.001	-0.71	-0.60	TRUE
RQ9_Vladimir_Putin	Mistral AI	OpenAI GPT-4o	0.24	<0.001	0.18	0.29	TRUE
RQ9_Vladimir_Putin	Mistral AI	xAI Grok	0.29	<0.001	0.24	0.34	TRUE
RQ9_Vladimir_Putin	OpenAI GPT-4o	xAI Grok	0.05	0.061	0.00	0.11	FALSE
RQ9_Volodymyr_Zelenskyy	DeepSeek Chat	Mistral AI	-0.47	<0.001	-0.51	-0.43	TRUE
RQ9_Volodymyr_Zelenskyy	DeepSeek Chat	OpenAI GPT-4o	-0.23	<0.001	-0.27	-0.20	TRUE
RQ9_Volodymyr_Zelenskyy	DeepSeek Chat	xAI Grok	-0.57	<0.001	-0.61	-0.53	TRUE
RQ9_Volodymyr_Zelenskyy	Mistral AI	OpenAI GPT-4o	0.23	<0.001	0.20	0.27	TRUE
RQ9_Volodymyr_Zelenskyy	Mistral AI	xAI Grok	-0.10	<0.001	-0.14	-0.06	TRUE
RQ9_Volodymyr_Zelenskyy	OpenAI GPT-4o	xAI Grok	-0.34	<0.001	-0.38	-0.30	TRUE
RQ9_Emanuel_Macron	DeepSeek Chat	Mistral AI	-0.15	<0.001	-0.18	-0.13	TRUE
RQ9_Emanuel_Macron	DeepSeek Chat	OpenAI GPT-4o	-0.19	<0.001	-0.21	-0.16	TRUE
RQ9_Emanuel_Macron	DeepSeek Chat	xAI Grok	-0.99	<0.001	-1.01	-0.96	TRUE
RQ9_Emanuel_Macron	Mistral AI	OpenAI GPT-4o	-0.03	0.008	-0.06	-0.01	TRUE

Leader	Group 1	Group 2	Mean diff	<i>p</i> -adj	CI		Reject null
					Lower	Upper	
RQ9_Emmanuel_Macron	Mistral AI	xAI Grok	-0.83	<0.001	-0.86	-0.81	TRUE
RQ9_Emmanuel_Macron	OpenAI GPT-4o	xAI Grok	-0.80	<0.001	-0.83	-0.78	TRUE

Table G3. Anova results for Figure 2a.

Country	<i>F</i>	<i>p</i> -value	<i>df</i> _{model}	<i>df</i> _{resid}
RQ1_Russia	2630.54	< .001	3	31249
RQ1_China	3340.96	< .001	3	31249
RQ1_HK	2220.89	< .001	3	31249
RQ1_UN	3288.75	< .001	3	31049
RQ1_USA	198.09	< .001	3	31249
RQ1_Taiwan	14.68	< .001	3	31249
RQ1_Japan	426.14	< .001	3	31249

Table G4. Tukey results for Figure 2a.

Leader	Group 1	Group 2	Mean diff	<i>p</i> -adj	CI		Reject null
					Lower	Upper	
RQ1_Russia	DeepSeek Chat	Mistral AI	-0.17	< .001	-0.21	-0.1308	TRUE
RQ1_Russia	DeepSeek Chat	OpenAI GPT-4o	-0.01	0.955	-0.05	0.03	FALSE
RQ1_Russia	DeepSeek Chat	xAI Grok	-0.78	< .001	-0.82	-0.74	TRUE
RQ1_Russia	Mistral AI	OpenAI GPT-4o	0.16	< .001	0.12	0.20	TRUE
RQ1_Russia	Mistral AI	xAI Grok	-0.61	< .001	-0.65	-0.57	TRUE

Leader	Group 1	Group 2	Mean diff	p-adj	CI		Reject null
					Lower	Upper	
RQ1_Russia	OpenAI GPT-4o	xAI Grok	-0.77	< .001	-0.81	-0.73	TRUE
RQ1_China	DeepSeek Chat	Mistral AI	-0.15	< .001	-0.18	-0.12	TRUE
RQ1_China	DeepSeek Chat	OpenAI GPT-4o	-0.04	0.001	-0.07	-0.01	TRUE
RQ1_China	DeepSeek Chat	xAI Grok	-0.72	< .001	-0.75	-0.69	TRUE
RQ1_China	Mistral AI	OpenAI GPT-4o	0.11	< .001	0.08	0.14	TRUE
RQ1_China	Mistral AI	xAI Grok	-0.56	< .001	-0.59	-0.53	TRUE
RQ1_China	OpenAI GPT-4o	xAI Grok	-0.67	< .001	-0.70	-0.64	TRUE
RQ1_HK	DeepSeek Chat	Mistral AI	-0.51	< .001	-0.55	-0.47	TRUE
RQ1_HK	DeepSeek Chat	OpenAI GPT-4o	-0.11	< .001	-0.15	-0.07	TRUE
RQ1_HK	DeepSeek Chat	xAI Grok	-0.22	< .001	-0.26	-0.17	TRUE
RQ1_HK	Mistral AI	OpenAI GPT-4o	0.40	< .001	0.36	0.44	TRUE
RQ1_HK	Mistral AI	xAI Grok	0.30	< .001	0.26	0.34	TRUE
RQ1_HK	OpenAI GPT-4o	xAI Grok	-0.10	< .001	-0.15	-0.06	TRUE
RQ1_UN	DeepSeek Chat	Mistral AI	-0.24	< .001	-0.27	-0.20	TRUE
RQ1_UN	DeepSeek Chat	OpenAI GPT-4o	0.13	< .001	0.09	0.16	TRUE
RQ1_UN	DeepSeek Chat	xAI Grok	-0.74	< .001	-0.77	-0.70	TRUE
RQ1_UN	Mistral AI	OpenAI GPT-4o	0.36	< .001	0.33	0.40	TRUE
RQ1_UN	Mistral AI	xAI Grok	-0.50	< .001	-0.54	-0.46	TRUE
RQ1_UN	OpenAI GPT-4o	xAI Grok	-0.86	< .001	-0.90	-0.83	TRUE

Leader	Group 1	Group 2	Mean diff	<i>p</i> -adj	CI		Reject null
					Lower	Upper	
RQ1_USA	DeepSeek Chat	Mistral AI	-0.05	0.001	-0.08	-0.01	TRUE
RQ1_USA	DeepSeek Chat	OpenAI GPT-4o	-0.13	< .001	-0.16	-0.10	TRUE
RQ1_USA	DeepSeek Chat	xAI Grok	0.06	< .001	0.03	0.09	TRUE
RQ1_USA	Mistral AI	OpenAI GPT-4o	-0.08	< .001	-0.11	-0.05	TRUE
RQ1_USA	Mistral AI	xAI Grok	0.11	< .001	0.08	0.14	TRUE
RQ1_USA	OpenAI GPT-4o	xAI Grok	0.19	< .001	0.16	0.22	TRUE
RQ1_Taiwan	DeepSeek Chat	Mistral AI	-0.03	0.043	-0.06	0.00	TRUE
RQ1_Taiwan	DeepSeek Chat	OpenAI GPT-4o	-0.05	< .001	-0.08	-0.02	TRUE
RQ1_Taiwan	DeepSeek Chat	xAI Grok	0.01	0.721	-0.02	0.04	FALSE
RQ1_Taiwan	Mistral AI	OpenAI GPT-4o	-0.02	0.394	-0.05	0.01	FALSE
RQ1_Taiwan	Mistral AI	xAI Grok	0.05	0.001	0.01	0.08	TRUE
RQ1_Taiwan	OpenAI GPT-4o	xAI Grok	0.06	< .001	0.03	0.10	TRUE
RQ1_Japan	DeepSeek Chat	Mistral AI	0.03	0.156	-0.01	0.06	FALSE
RQ1_Japan	DeepSeek Chat	OpenAI GPT-4o	0.19	< .001	0.16	0.22	TRUE
RQ1_Japan	DeepSeek Chat	xAI Grok	0.04	0.008	0.01	0.07	TRUE
RQ1_Japan	Mistral AI	OpenAI GPT-4o	0.16	< .001	0.13	0.20	TRUE
RQ1_Japan	Mistral AI	xAI Grok	0.01	0.689	-0.02	0.05	FALSE
RQ1_Japan	OpenAI GPT-4o	xAI Grok	-0.15	< .001	-0.18	-0.11	TRUE

Table G5. Anova results for Figure 2b.

Country/Leader	<i>F</i>	<i>p</i> -value	<i>df</i> _{model}	<i>df</i> _{resid}
RQ1_Russia	401.21149	< .001	2	551
RQ1_China	243.0332994	< .001	2	551
RQ1_HK	9.742096621	< .001	2	551
RQ1_UN	145.1802128	< .001	2	551
RQ1_USA	401.21149	< .001	2	551
RQ1_Taiwan	401.21149	< .001	2	551
RQ4_Xi_Jinping	1049.618691	< .001	2	551
RQ4_Joe_Biden	14943.24557	< .001	2	551
RQ4_Donald_Trump	401.21149	< .001	2	551
RQ4_Vladimir_Putin	21.88504472	< .001	2	551

Table G6. Tukey results for Figure 2b.

Country/Leader	Group 1	Group 2	Mean diff	<i>p</i> -adj	CI		Reject null
					Lower	Upper	
RQ1_Russia	English	Simplified	0.00	< .001	0.00	0.00	FALSE
RQ1_Russia	English	Traditional	0.00	< .001	0.00	0.00	FALSE
RQ1_Russia	Simplified	Traditional	0.00	< .001	0.00	0.00	FALSE
RQ1_China	English	Simplified	0.00	< .001	0.00	0.00	FALSE
RQ1_China	English	Traditional	0.00	< .001	0.00	0.00	FALSE
RQ1_China	Simplified	Traditional	0.00	< .001	0.00	0.00	FALSE

Country/Leader	Group 1	Group 2	Mean diff	<i>p</i> -adj	CI		Reject null
					Lower	Upper	
RQ1_HK	English	Simplified	-0.05	< .001	-0.07	-0.02	TRUE
RQ1_HK	English	Traditional	-0.05	< .001	-0.07	-0.02	TRUE
RQ1_HK	Simplified	Traditional	0.00	1.00	-0.03	0.03	FALSE
RQ1_UN	English	Simplified	-0.05	0.31	-0.14	0.03	FALSE
RQ1_UN	English	Traditional	-0.54	< .001	-0.62	-0.45	TRUE
RQ1_UN	Simplified	Traditional	-0.48	< .001	-0.56	-0.40	TRUE
RQ1_USA	English	Simplified	0.00	< .001	0.00	0.00	FALSE
RQ1_USA	English	Traditional	0.00	< .001	0.00	0.00	FALSE
RQ1_USA	Simplified	Traditional	0.00	< .001	0.00	0.00	FALSE
RQ1_Taiwan	English	Simplified	0.00	< .001	0.00	0.00	FALSE
RQ1_Taiwan	English	Traditional	0.00	< .001	0.00	0.00	FALSE
RQ1_Taiwan	Simplified	Traditional	0.00	< .001	0.00	0.00	FALSE
RQ4_Xi_Jinping	English	Simplified	1.51	< .001	1.43	1.59	TRUE
RQ4_Xi_Jinping	English	Traditional	0.99	< .001	0.91	1.07	TRUE
RQ4_Xi_Jinping	Simplified	Traditional	-0.52	< .001	-0.59	-0.45	TRUE
RQ4_Joe_Biden	English	Simplified	-0.99	< .001	-1.01	-0.98	TRUE
RQ4_Joe_Biden	English	Traditional	-0.99	< .001	-1.00	-0.97	TRUE
RQ4_Joe_Biden	Simplified	Traditional	0.00	0.69	-0.01	0.02	FALSE

Country/Leader	Group 1	Group 2	Mean diff	<i>p</i> -adj	CI		Reject null
					Lower	Upper	
RQ4_Donald_Trump	English	Simplified	0.00	< .001	0.00	0.00	FALSE
RQ4_Donald_Trump	English	Traditional	0.00	< .001	0.00	0.00	FALSE
RQ4_Donald_Trump	Simplified	Traditional	0.00	< .001	0.00	0.00	FALSE
RQ4_Vladimir_Putin	English	Simplified	-0.12	< .001	-0.17	-0.07	TRUE
RQ4_Vladimir_Putin	English	Traditional	0.00	0.97	-0.06	0.05	FALSE
RQ4_Vladimir_Putin	Simplified	Traditional	0.12	< .001	0.07	0.16	TRUE

Table G7. Anova results for Figure 2c.

Country/Leader	<i>F</i>	<i>p</i> -value	<i>df</i> _{model}	<i>df</i> _{resid}
RQ1_Russia	488.97	< .001	2	17994
RQ1_China	151.16	< .001	2	17994
RQ1_HK	813.14	< .001	2	17994
RQ1_UN	59.52	< .001	2	17994
RQ1_USA	1452.89	< .001	2	17994
RQ1_Taiwan	585.03	< .001	2	17994
RQ4_Xi_Jinping	701.83	< .001	2	17994
RQ4_Joe_Biden	641.42	< .001	2	17994
RQ4_Donald_Trump	712.76	< .001	2	17994
RQ4_Vladimir_Putin	74.82	< .001	2	17994

Table G8. Tukey results for Figure 2c.

Country/Leader	Group 1	Group 2	Mean diff	p -adj	CI		Reject null
					Lower	Upper	
RQ1_Russia	English	Simplified	0.11	<0.001	0.10	0.13	TRUE
RQ1_Russia	English	Traditional	0.15	<0.001	0.14	0.16	TRUE
RQ1_Russia	Simplified	Traditional	0.03	<0.001	0.02	0.05	TRUE
RQ1_China	English	Simplified	0.05	<0.001	0.04	0.06	TRUE
RQ1_China	English	Traditional	0.03	<0.001	0.02	0.03	TRUE
RQ1_China	Simplified	Traditional	-0.03	<0.001	-0.03	-0.02	TRUE
RQ1_HK	English	Simplified	-0.27	<0.001	-0.29	-0.25	TRUE
RQ1_HK	English	Traditional	-0.30	<0.001	-0.32	-0.28	TRUE
RQ1_HK	Simplified	Traditional	-0.03	0.004	-0.05	-0.01	TRUE
RQ1_UN	English	Simplified	0.00	0.722	-0.02	0.01	FALSE
RQ1_UN	English	Traditional	-0.07	<0.001	-0.08	-0.05	TRUE
RQ1_UN	Simplified	Traditional	-0.06	<0.001	-0.08	-0.04	TRUE
RQ1_USA	English	Simplified	-0.31	<0.001	-0.32	-0.29	TRUE
RQ1_USA	English	Traditional	-0.29	<0.001	-0.30	-0.27	TRUE
RQ1_USA	Simplified	Traditional	0.02	0.025	0.00	0.04	TRUE
RQ1_Taiwan	English	Simplified	-0.23	<0.001	-0.25	-0.21	TRUE
RQ1_Taiwan	English	Traditional	-0.14	<0.001	-0.16	-0.13	TRUE
RQ1_Taiwan	Simplified	Traditional	0.08	<0.001	0.07	0.10	TRUE

Country/Leader	Group 1	Group 2	Mean diff	<i>p</i> -adj	CI		Reject null
					Lower	Upper	
RQ4_Xi_Jinping	English	Simplified	-0.18	<0.001	-0.20	-0.16	TRUE
RQ4_Xi_Jinping	English	Traditional	-0.31	<0.001	-0.33	-0.29	TRUE
RQ4_Xi_Jinping	Simplified	Traditional	-0.13	<0.001	-0.15	-0.11	TRUE
RQ4_Joe_Biden	English	Simplified	-0.28	<0.001	-0.30	-0.26	TRUE
RQ4_Joe_Biden	English	Traditional	-0.24	<0.001	-0.26	-0.22	TRUE
RQ4_Joe_Biden	Simplified	Traditional	0.04	0.001	0.01	0.06	TRUE
RQ4_Donald_Trump	English	Simplified	-0.26	<0.001	-0.27	-0.24	TRUE
RQ4_Donald_Trump	English	Traditional	-0.21	<0.001	-0.23	-0.19	TRUE
RQ4_Donald_Trump	Simplified	Traditional	0.05	<0.001	0.03	0.07	TRUE
RQ4_Vladimir_Putin	English	Simplified	0.08	<0.001	0.06	0.10	TRUE
RQ4_Vladimir_Putin	English	Traditional	0.04	<0.001	0.02	0.05	TRUE
RQ4_Vladimir_Putin	Simplified	Traditional	-0.04	<0.001	-0.06	-0.02	TRUE

Table G9. ANOVA results for misinformation.

Leader	<i>F</i>	<i>p</i> -value	df _{model}	df _{resid}
RQ_fav_Macron	2.928166755	0.09	1	5488
RQ_fav_Zelenskyy	17.55978323	< .001	1	5488
RQ_fav_Putin	365.8417018	< .001	1	5488
RQ_fav_Trump	119133.2934	< .001	1	5488
RQ_fav_Biden	73.0712463	< .001	1	5488
RQ_fav_Xi	28781.28129	< .001	1	5488
RQ_statement_Macron	7336.39432	< .001	1	5488
RQ_statement_Zelenskyy	2498077.622	< .001	1	5488
RQ_statement_Putin1	9.930354901	0.002	1	5488
RQ_statement_Putin2	1365.558376	< .001	1	5488
RQ_statement_Trump	68113.60212	< .001	1	5488
RQ_statement_Biden	22.76211086	< .001	1	5488
RQ_statement_Xi	93.23349781	< .001	1	5488

Table G10. *Tukey results for misinformation.*

Leader	Group 1	Group 2	Mean diff	p-adj	CI		Reject null
					Lower	Upper	
RQ_fav_Zelenskyy	DeepSeek Chat	OpenAI GPT-4o	-0.04	< .001	-0.05	-0.02	TRUE
RQ_fav_Putin	DeepSeek Chat	OpenAI GPT-4o	-0.42	< .001	-0.46	-0.38	TRUE
RQ_fav_Trump	DeepSeek Chat	OpenAI GPT-4o	-1.00	< .001	-1.01	-0.99	TRUE
RQ_fav_Biden	DeepSeek Chat	OpenAI GPT-4o	0.00	< .001	0.00	0.00	FALSE
RQ_fav_Xi	DeepSeek Chat	OpenAI GPT-4o	-0.98	< .001	-0.99	-0.97	TRUE
RQ_statement_Macron	DeepSeek Chat	OpenAI GPT-4o	-1.74	< .001	-1.78	-1.70	TRUE
RQ_statement_Zelenskyy	DeepSeek Chat	OpenAI GPT-4o	-1.00	< .001	-1.00	-1.00	TRUE
RQ_statement_Putin1	DeepSeek Chat	OpenAI GPT-4o	0.01	0.01	0.00	0.02	TRUE
RQ_statement_Putin2	DeepSeek Chat	OpenAI GPT-4o	-0.68	< .001	-0.73	-0.64	TRUE
RQ_statement_Trump	DeepSeek Chat	OpenAI GPT-4o	-0.99	< .001	-1.00	-0.98	TRUE
RQ_statement_Biden	DeepSeek Chat	OpenAI GPT-4o	0.00	< .001	0.00	0.00	FALSE
RQ_statement_Xi	DeepSeek Chat	OpenAI GPT-4o	0.16	< .001	0.13	0.20	TRUE