

Supplementary Online Material

Ascribing beliefs to ingroup and outgroup political candidates:

Neural correlates of perspective taking, issue importance, and days until the election

Emily B. Falk^{1,2,3}

Robert P. Spunt¹

Matthew D. Lieberman¹

Supplemental Results: Differences in neural activity when taking one's own candidate's perspective and that of the opponent.

All analyses thresholded at voxel-wise threshold of $p < .005$; results starred (*) survive cluster threshold of $k = 45$, corresponding to FDR corrected, $p < .05$; results not starred survive $k = 20$, uncorrected. All results are reported in MNI space. Note: # voxels = number of voxels in independent clusters (rows where cluster size is not specified imply subregions of the same cluster; rows where region is not listed imply separate clusters within the same region).

Table S1

Interaction between target perspective and self-rated issue importance (no regions greater for own)

Region	x,y,z (mm)	# voxels	t-val
Opponent > Own Candidate			
Hippocampus	27 -27 -9	27	4.52
Inferior occipital gyrus*	39 -78 -12	104	3.41
Middle occipital gyrus	-33 -93 3	32	3.34

Table S2

Interaction between target perspective and IRI Perspective Taking (no regions greater for opponent)

Region	x,y,z (mm)	# voxels	t-val
Own candidate > Opponent			
VMPFC*	0 36 -18	50	4.37
	3 51 -9		3.17
DMPFC	0 48 48	31	3.83
	3 60 30	33	4.43

Note: DMPFC = Dorsomedial Prefrontal Cortex; VMPFC = Ventromedial Prefrontal Cortex; OFC = Orbitofrontal Cortex.

Table S3

Increased activity for own candidate > opponent, farther from the election (no activity in reverse contrast)

Region	x,y,z (mm)	# voxels	t-val
Own candidate > Opponent			
MPFC	9 57 9	21	4.35
Cerebellum*	-18 -36 -27	1303	5.1
Amygdala*	-27 -3 -24		3.47
Hippocampus*	-27 -21 -12		3.23
TPJ*	-48 -39 21		4.51
Anterior temporal cortex*	-45 3 -24		3.63
Superior temporal gyrus*	57 -12 15	507	4.27
Inferior temporal gyrus*	57 -12 -30		4.19
Anterior temporal cortex*	42 9 -21		4.04
Posterior superior temporal gyrus	48 -54 18	24	3.8

Cerebellum*	3 -75 -39	317	5.12
	18 -69 -51	20	4.66
Inferior frontal gyrus*	-48 9 12	101	4.51
	57 36 6	27	4.25
Occipital lobe	3 -102 12	26	4.21
Fusiform gyrus*	-45 -48 -15	75	4.13
Precentral gyrus	-54 -3 36	31	3.58
Inferior frontal gyrus	54 15 12	24	3.55
Calcarine sulcus	-21 -60 12	26	3.48

Note: TPJ = Temporal-parietal junction; MPFC = Medial Prefrontal Cortex.

Table S4

Three-way interaction between target perspective, personal issue importance and trait perspective taking (no regions greater for own candidate)

Region	x,y,z (mm)	# voxels	t-val
Opponent > Own candidate			
Hippocampus*	21 -15 -12	56	3.69
Hippocampus/Amygdala	24 -6 -21		3.25
	-21 -6 -21	23	4.32

Table S5

Three-way interaction between target perspective, trait perspective taking and temporal proximity to the election

Region	x,y,z (mm)	# voxels	t-val
Own Candidate > Opponent			
TPJ	-45 -48 21	36	3.53
PrecuneusPCC	-6 -48 63	24	3.41
Superior frontal gyrus/ DMPFC (?)	15 45 39	27	3.58
DMPFC	9 48 30		3.54
	9 57 33		2.91
Dorsal striatum*	-21 9 15	78	4.72
Ventral striatum*	-18 6 -6		3.02
Middle temporal gyrus	-51 -42 -6	31	4.07
Middle frontal gyrus	-36 12 45	27	3.89
Middle Occipital Gyrus	-30 -90 0	32	3.29
Cerebellum*	-27 -75 -30	95	3.69

Opponent > Own Candidate

rACC	12 36 -9	40	3.75
------	----------	----	------

Note: rACC = Rostral Anterior Cingulate Cortex