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## Supplementary Material

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## Brain Responses Underlying Anthropomorphism, Agency, and Social Attribution in Autism Spectrum Disorder

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### SUPPLEMENTARY MATERIALS

**Table 1. Brain regions, cluster size, MNI coordinates, and t-scores for significant activation clusters in the Social - Fixation condition.**

Region	Hem.	<i>k</i>	MNI			<i>t</i>
<i>Within Group Results</i>						
<i>Social &gt; Fixation</i>						
<i>TD</i>						
Lingual/Calcarine	L./R.	3712	14	-88	16	7.60
Middle/Superior Temporal	R.	846	60	-40	12	5.61
Middle Frontal Gyrus	L.	420	-38	14	52	5.77
Lingual	R.	235	26	-30	-2	5.80
Middle Temporal Gyrus	L.	215	-36	-58	8	5.99
Inferior Frontal (Tri)	R.	214	56	26	22	6.23
Middle/Superior Temporal	L.	198	-56	-42	12	5.60
Superior Medial Frontal	L./R.	175	-2	38	46	4.08
Hippocampus	L.	148	-26	-34	-2	5.80
<i>ASD</i>						
Lingual/Calcarine	L./R.	6797	20	-64	-10	10.16
Putamen	L.	311	-24	8	0	6.43
Hippocampus	L.	250	-28	-22	-8	7.09
Inferior Frontal (Tri)	L.	155	-54	18	2	5.31
Middle/Superior Temporal	R.	125	62	-46	8	4.51

Note. L, left; R, right; Hem, hemisphere; *k*, cluster size defined as the number of voxels.

**Table 2. Brain regions, cluster size, MNI coordinates, and t-scores for significant activation clusters in the Social - Random condition.**

Region	Hem.	<i>k</i>	MNI			<i>t</i>
<i>Within Group Results</i>						
<i>Social &gt; Random</i>						
<i>TD</i>						
Lingual/Calcarine	L./R.	6238	12	-90	16	9.25

(Table 2) contd....

Region	Hem.	k	MNI			t
Caudate	L./R.	1433	-20	-32	2	4.50
Superior Medial Frontal	L./R.	618	6	58	34	7.26
Middle Temporal Gyrus	R.	379	44	-76	0	4.11
Middle Temporal Gyrus	L.	369	-46	-66	-20	5.70
Superior Temporal Gyrus	L.	253	-56	-42	18	5.02
Precentral Gyrus	L.	114	-46	12	46	4.92
Middle Temporal Gyrus	L.	86	-52	-22	0	4.54
<i>ASD</i>						
Lingual/Calcarine	L./R.	3717	-20	-62	-8	8.09
Middle Occipital Gyrus	L.	206	-44	-76	4	9.24
Putamen	R.	189	30	4	-6	5.19
Superior Medial Frontal	L./R.	158	4	58	24	7.15
Fusiform Gyrus	L.	131	-40	-52	-20	5.87
<i>Random &gt; Social</i>						
<i>ASD</i>						
Inferior Parietal Lobule	R.	155	44	-52	38	4.87
<i>Between Group Results</i>						
<i>Social &gt; Random</i>						
<i>TD&gt;ASD</i>						
Calcarine Sulcus	L.	97	-6	82	8	3.84

Note. L, left; R, right; Hem, hemisphere; k, cluster size defined as the number of voxels.

**Table 3. Brain regions, cluster size, MNI coordinates, and t-scores for significant activation clusters in the Human - Shape condition.**

Region	Hem.	k	MNI			t
<i>Within Group Results</i>						
<i>Human &gt; Shape</i>						
<i>TD</i>						
Lingual/Calcarine	L./R.	791	12	-72	-6	8.26
<i>ASD</i>						
Lingual/Calcarine	L./R.	1321	10	-78	-2	9.79
Inferior Parietal Lobule	R.	508	44	-52	50	8.03
Superior Medial Frontal	L./R.	254	0	22	48	5.19
Inferior Parietal Lobule	L.	166	-44	-52	46	3.95
Precentral Gyrus	L.	144	-16	-20	56	5.78
Precuneus	R.	102	16	-52	48	6.22
<i>Shape &gt; Human</i>						
<i>TD</i>						
Middle Temporal	L.	563	-40	-68	20	4.96
Lingual Gyrus	L.	455	-30	-48	-12	5.50
Middle/Superior Temporal	R.	300	52	-52	6	5.13
Inferior Occipital	R.	199	24	-90	-6	6.12
Cingulum	L./R.	195	4	-8	40	4.56
Superior Medial Frontal	R.	153	6	60	20	4.40
Superior Temporal	R.	107	56	-24	2	4.60
Superior Medial Frontal	L.	105	-10	46	16	4.06
Supplementary Motor Area	L./R.	91	8	8	68	4.50
<i>ASD</i>						
Precuneus	L./R.	2060	-16	-60	14	11.45
Superior/Middle Temporal	R.	330	54	-14	-12	7.57
Superior/Middle Temporal	L.	240	-52	-4	-14	4.21
Superior Temporal	R.	180	52	-34	6	8.31
Inferior Frontal Gyrus	R.	159	20	-90	-8	4.46
Superior Medial Frontal	L.	104	-10	50	12	5.78

(Table 3) contd....

Region	Hem.	k	MNI			t
Middle Occipital	L.	118	-44	-74	22	4.12
Superior Medial Frontal	R.	92	6	60	8	4.40
Superior Temporal Gyrus	R.	81	62	-16	8	4.32
<i>Between Group Results</i>						
<i>Human &gt; Shape</i>						
<i>ASD &gt; TD</i>						
Dorsomedial Prefrontal	L.	106	-6	30	52	3.90

Note. L, left; R, right; Hem, hemisphere; k, cluster size defined as the number of voxels.

**Table 4. Brain regions, cluster size, MNI coordinates, and t-scores for significant activation clusters in the Human – Shape condition positively correlated with RMIE scores, controlling for IQ.**

Region	Hem.	k	MNI			t
<i>All subjects</i>						
<i>Human &gt; Shape</i>						
Cingulum	L./R.	393	-10	-40	40	7.20
Superior Medial Frontal	L.	328	-16	20	42	6.77
Superior Medial Frontal	R.	281	24	26	42	6.56
Precuneus	L.	184	-2	-66	34	4.33
Putamen	R.	173	32	-10	2	4.97
Precuneus	L.	167	-2	-44	62	5.38
Angular Gyrus	R.	137	467	-60	26	6.02
Superior Medial Frontal	L.	106	-26	50	30	5.59
Mid Cingulum	R.	84	6	-10	38	5.49
Mid Cingulum	L.	83	-8	0	36	4.96
Caudate	R.	74	8	24	-4	5.25
Postcentral Gyrus	R.	69	26	-36	62	4.70
Inf Parietal/Mid Occipital	L.	60	-38	-74	30	4.08

Note. RMIE, Reading the Mind in the Eyes; L, left; R, right; Hem, hemisphere; k, cluster size defined as the number of voxels.

**Table 5. Brain regions, cluster size, MNI coordinates, and t-scores for significant activation clusters in the Social-Random condition negatively correlated with RAADS-R-SR scores, controlling for IQ.**

Region	Hem.	k	MNI			t
<i>All subjects</i>						
<i>Social &gt; Random</i>						
Temporal Parietal (TPJ)	R.	88	44	-70	34	4.59

Note: RAADS-S-SR, Ritvo Autism Asperger Diagnostic Scale Revised – Social Responsivity Subscale; L, left; R, right; Hem, hemisphere; k, cluster size defined as the number of voxels.

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