Table S1:

	Stimuli	Task	Participants	Diagnosis	Control condition?	Results	Bio. motion impairment in ASC group?
Moore, Hobson & Lee, 1997	40ms to 5000ms 5- & 10-pPLDs of walking person	Name what the dots are stuck to.	ASC: N = 17 (Range = 10- 19years). Ctrls:learning disabled, matched on CA and BPVS.	ASD with impaired language processing	40ms to 5000ms 5- & 10-pPLDs moving household objects	No difference between the groups in recognition of the objects by their motions. However, ASC group had difficulty with spontaneously describing and recognising portrayals of emotion.	Yes - emotion recognition only
Blake, Turner, Smoski, Pozdol & Stone, 2003	1sec 12-pPLD of familiar activities or phase scrambled version of the same stimulus	- respond "yes"	ASC: N = 12 (Range = 8- 10yrs). Ctrl: N = 9 (Range = 5-10 yrs). Ctrl CA matched to ASC MA	Licensed psychologist diagnosis confirmed with ADOS- G & CARS	quadrant of the screen contained short	BM task than the ASC group. Significant negative correlation between 'level' of	Yes
Herrington et al., 2007	1sec 13-pPLD walking on the spot (generated by Cutting algorithm)	PLW	ASC: N = 10, M = 27.6yrs, SD = 7.1 yrs. Ctrl: N = 10, M = 25.6yrs, SD = 4.9 yrs.	AS	dot displaced by max. of 65 pixels in vertical dimension.	No difference between the groups on reporting walking direction. However, ASC group showed multiple hypoactivation (inc. STG and human MT+/V5)	No - but hypoactivation in bio motion areas
Hubert et al., 2007	5sec PLD of one of a) 10 actions b) 5 subjective states c) 5 emotional actions	what is happening in	ASC: N = 19, M = 21y6m, SD = 6y1m. Ctrls: N = 19, M = 24y4m, SD = 8y6m.	ADI-R and ASSQ scale	5sec PLD of one of 5 objects	ASC group produced less accurate descriptions for the emotion PLDs only.	Yes but only on emotion labelling
Freitag et al., 2008	1.5sec 15-pPLD of walker	In scanner: assemble each PLD into a figure. Outside scanner: indicate with a button press if you see a walking person or a scrambled	ASC: N = 15, M = 17.5yrs, SD = 3.5yrs. Ctrls: N = 15 group- matched on age, sex and IQ.	Clinical diagnosis confirmed with ADI-R and ADOS- G.	velocity profile	ASC group showed multiple hypoactivation (inc. STS) for viewing	in bio motion

	T				1		1
		version.				controls. Activation	
						in intraparietal	
						sulcus and right STS for motion	
						(both bio and	
						scrambled versus	
						fixation) correlated negatively with	
						severity of	
						symptoms.	
Parron et	5sec PLD of one of	Describe orally	ASC: N = 23,	Clinical	5sec PLD of	ASC group	Yes but only
al., 2008	a) 10 actions b) 5	what is	M = 11y7m,	diagnosis	one of 5	produced less	on emotion
ai., 2000	subjective states c)	happening in	SD = 3v2m.	confirmed	objects	accurate	labelling
	5 emotional actions	the movie	Ctrl: $N = 23$, M	with ADI-R	Objects	descriptions for the	labelling
	o cinotional actions	the movie	= 12yrs, SD =	and ASSQ		emotion PLDs only.	
			2y5m	and Aood		Ciriodon'i ED3 only.	
			•				
Murphy,	0.92sec 11pPLD of	Report	ASC: N = 16,	AS (n = 15),	Scrambled	ASC participants	No
Brady,	actor walking	direction of	M = 25.56yrs,	ASD (n = 1)		were slower overall	
Fitzgerald	masked by	walking	SD = 7.67yrs.	diagnosed	PLDs.	but there were no	
& Troje,	spatially- and		Ctrl: N = 16, M	by		differences	
2009	phase-scrambled		= 26.40yrs,	experienced		between the	
	PL dots		SD = 2.85yrs,	clinician		gorups in terms of	
			gender-			accuracy.	
			matched but				
			significantly				
			higher non-				
			verbal IQ than				
			ASC group.				
Annaz et	1sec 13-pPLD of an	Report if the	ASC: N = 23,	Clinical	Phase-	Groups did not	Not at younger
al., 2009	actor either walking	dots are	M = 8y1m, SD	diagnosis of	scrambled	differ in	ages but unlike
	on the spot,	moving like a	= 1y1m. Ctrl:	ASC	versions of the	performance at	Ctrls children
	running, throwing,	person or not	N = 34, M =	confirmed	PLDs.	onset (4-5 years).	with ASC failed
	kicking or star-		8y3m, SD =	with ADOS		However,	to improve with
	jumping.		2y3m.			performance	age
						improved with age	
						for the TD group	
						but not for the ASC	
						group.	
Annaz et	BM: PLD of actor	2AFC: Which	ASC: $N = 23$,	Clinical		BM: Groups did not	
al., 2009	walking on the spot	panel contains	M = 8yr1m,		integration task		ages but unlike
	embedded in	the target? BM		ASC		performance at	Ctrls children
	scrambled PLD	target = dots	Ctrl: N =34, M	confirmed		` ,	with ASC failed
	dots versus	that look like a	= 8y3m, SD =	with ADOS			to improve with
	scrambled PLD	person	2y3m.			performance	age
	dots. Coherent	walking. CM:				improved with age	
	motion (CM): signal	target = dots				for the Ctrl group	
		that are moving				but not for the ASC	
	coherently versus	in a coherent				group. CM: ASC	
	noise elements	way like				group	
	moving randomly.	swimming fish.				demonstrated	
		FFM: target = a				significantly higher	
	(FFM): signal	rectangle that				MCTs than the Ctrl	
	elements arranged	is standing up				group. FFM:	
	in a vertical	on its end.				Developmental	
	rectangle					trajectories	
	surrounded by					comparable but	
	noise elements					ASC group	
	versus signal					demonstrated	
	elements arranged					significantly higher	
	in a horizontal					thresholds (more	
	rectangle					signal required)	
	surounded by noise					than Ctrl group.	
	elements (figure						
	and noise elements						
	moved coherently						
	in opposite						
	directions).						

		•	1		•		
Koldewyn,	Coherent motion	CM: indicate	ASC: $N = 30$,	ADOS:	Coherent form		Yes
Whitney &	(CM): 2sec videos	direction of	M = 15.2yrs,	social M =	task:	ASC group	
Rivera,	of dots moving	global motion.	SD = 2.64yrs,.	8.90, SD =	Concentric	exhibited	
2009	either left or right	CF: indicate	TD: N = 32, M		glass patterns	significantly lower	
	with one of six	concentric or	= 15.78yrs,	M = 5.07, SD		75% thresholds.	
	coherence levels	expanding	SD = 2.41yrs	= 1.51, total		This difference is	
	from 0° (coherent	pattern. BM: indicate		M = 13.97, SD = 3.76		still significant if IQ	
	motion) to	direction of		30 - 3.70		is entered as a	
	360°(random motion). Biological					covariate. Coherent motion:	
	motion (BM): PLDs	walking.				ASC group	
	of actor walking					exhibited	
	masked with the					significantly lower	
	CM stimuli (high					75% thresholds.	
	coherence of the					However, this	
	background					difference is non-	
	stimulus makes PL					significant if IQ is	
	walker easy to					entered as a	
	identify, when					covariate.	
	coherence is low					Coherent Form: no	
	PL walker difficult to					group differences.	
	identify).					Performance on	
						bio motion and	
						coherent motion	
						was correlated in	
						the ASC group but	
						not in the control	
						group.	
						Performance on	
						the coherent form	
						task was correlated	
						with performance	
						on the coherent	
						motion task for Ctrl	
	5		100 11 10	10 (10)	• • • •	but not ASC.	
	3 sec PL or full-light				Motion	ASC group were	Yes
Atkinson, 2009	displays of either	the emotion (5	Range = 18-	HFA(n = 1)	Coherence	ASC group were significantly less	Yes
	displays of either emotions or	the emotion (5 choices) or the	Range = 18- 58 yrs. Ctrl: N	HFA (n = 1) confirmed by	Coherence (MC) task: 750	ASC group were signifcantly less accurate than the	Yes
	displays of either	the emotion (5 choices) or the action (9	Range = 18- 58 yrs. Ctrl: N = 16, Range =	HFA (n = 1) confirmed by experienced	Coherence (MC) task: 750 dots moving in	ASC group were signifcantly less accurate than the Ctrl group in	Yes
	displays of either emotions or	the emotion (5 choices) or the action (9 choices)	Range = 18- 58 yrs. Ctrl: N = 16, Range = 17-54 years.	HFA (n = 1) confirmed by	Coherence (MC) task: 750 dots moving in one of 5	ASC group were signifcantly less accurate than the Ctrl group in classifying anger	Yes
	displays of either emotions or	the emotion (5 choices) or the action (9	Range = 18- 58 yrs. Ctrl: N = 16, Range = 17-54 years. Group-	HFA (n = 1) confirmed by experienced	Coherence (MC) task: 750 dots moving in one of 5 direction	ASC group were signifcantly less accurate than the Ctrl group in classifying anger and happiness and	Yes
	displays of either emotions or	the emotion (5 choices) or the action (9 choices)	Range = 18- 58 yrs. Ctrl: N = 16, Range = 17-54 years. Group- matched on	HFA (n = 1) confirmed by experienced clinician	Coherence (MC) task: 750 dots moving in one of 5 direction randomly from	ASC group were signifcantly less accurate than the Ctrl group in classifying anger and happiness and matginally, but not	Yes
	displays of either emotions or	the emotion (5 choices) or the action (9 choices)	Range = 18- 58 yrs. Ctrl: N = 16, Range = 17-54 years. Group- matched on age, full-scale	HFA (n = 1) confirmed by experienced clinician	Coherence (MC) task: 750 dots moving in one of 5 direction randomly from frame to frame,	ASC group were significantly less accurate than the Ctrl group in classifying anger and happiness and matginally, but not significantly less	Yes
	displays of either emotions or	the emotion (5 choices) or the action (9 choices)	Range = 18- 58 yrs. Ctrl: N = 16, Range = 17-54 years. Group- matched on	HFA (n = 1) confirmed by experienced clinician	Coherence (MC) task: 750 dots moving in one of 5 direction randomly from frame to frame, a propotional of	ASC group were significantly less accurate than the Ctrl group in classifying anger and happiness and matginally, but not significantly less accurate in	Yes
	displays of either emotions or	the emotion (5 choices) or the action (9 choices)	Range = 18- 58 yrs. Ctrl: N = 16, Range = 17-54 years. Group- matched on age, full-scale IQ, verbal IQ, &	HFA (n = 1) confirmed by experienced clinician	Coherence (MC) task: 750 dots moving in one of 5 direction randomly from frame to frame, a propotional of the dots moved	ASC group were significantly less accurate than the Ctrl group in classifying anger and happiness and matginally, but not significantly less accurate in classifying fear and	Yes
	displays of either emotions or	the emotion (5 choices) or the action (9 choices)	Range = 18- 58 yrs. Ctrl: N = 16, Range = 17-54 years. Group- matched on age, full-scale IQ, verbal IQ,	HFÅ (n = 1) confirmed by experienced clinician	Coherence (MC) task: 750 dots moving in one of 5 direction randomly from frame to frame, a propotional of	ASC group were significantly less accurate than the Ctrl group in classifying anger and happiness and matginally, but not significantly less accurate in classifying fear and sadness. MC	Yes
	displays of either emotions or	the emotion (5 choices) or the action (9 choices)	Range = 18- 58 yrs. Ctrl: N = 16, Range = 17-54 years. Group- matched on age, full-scale IQ, verbal IQ, & performance	HFÅ (n = 1) confirmed by experienced clinician	Coherence (MC) task: 750 dots moving in one of 5 direction randomly from frame to frame, a propotional of the dots moved coherently right or left. The task	ASC group were significantly less accurate than the Ctrl group in classifying anger and happiness and matginally, but not significantly less accurate in classifying fear and sadness. MC accuracy	
	displays of either emotions or	the emotion (5 choices) or the action (9 choices)	Range = 18- 58 yrs. Ctrl: N = 16, Range = 17-54 years. Group- matched on age, full-scale IQ, verbal IQ, & performance	HFÅ (n = 1) confirmed by experienced clinician	Coherence (MC) task: 750 dots moving in one of 5 direction randomly from frame to frame, a propotional of the dots moved coherently right or left. The task	ASC group were significantly less accurate than the Ctrl group in classifying anger and happiness and matginally, but not significantly less accurate in classifying fear and sadness. MC accuracy significantly greater	
	displays of either emotions or	the emotion (5 choices) or the action (9 choices)	Range = 18- 58 yrs. Ctrl: N = 16, Range = 17-54 years. Group- matched on age, full-scale IQ, verbal IQ, & performance	HFÅ (n = 1) confirmed by experienced clinician	Coherence (MC) task: 750 dots moving in one of 5 direction randomly from frame to frame, a propotional of the dots moved coherently right or left. The task was to say if	ASC group were significantly less accurate than the Ctrl group in classifying anger and happiness and matginally, but not significantly less accurate in classifying fear and sadness. MC accuracy significantly greater	
	displays of either emotions or	the emotion (5 choices) or the action (9 choices)	Range = 18- 58 yrs. Ctrl: N = 16, Range = 17-54 years. Group- matched on age, full-scale IQ, verbal IQ, & performance	HFÅ (n = 1) confirmed by experienced clinician	Coherence (MC) task: 750 dots moving in one of 5 direction randomly from frame to frame, a propotional of the dots moved coherently right or left. The task was to say if the coherently moving dots	ASC group were significantly less accurate than the Ctrl group in classifying anger and happiness and matginally, but not significantly less accurate in classifying fear and sadness. MC accuracy significantly greater in Ctrl group than	
	displays of either emotions or	the emotion (5 choices) or the action (9 choices)	Range = 18- 58 yrs. Ctrl: N = 16, Range = 17-54 years. Group- matched on age, full-scale IQ, verbal IQ, & performance	HFÅ (n = 1) confirmed by experienced clinician	Coherence (MC) task: 750 dots moving in one of 5 direction randomly from frame to frame, a propotional of the dots moved coherently right or left. The task was to say if the coherently moving dots	ASC group were significantly less accurate than the Ctrl group in classifying anger and happiness and matginally, but not significantly less accurate in classifying fear and sadness. MC accuracy significantly greater in Ctrl group than ASC group and	
	displays of either emotions or	the emotion (5 choices) or the action (9 choices)	Range = 18- 58 yrs. Ctrl: N = 16, Range = 17-54 years. Group- matched on age, full-scale IQ, verbal IQ, & performance	HFÅ (n = 1) confirmed by experienced clinician	Coherence (MC) task: 750 dots moving in one of 5 direction randomly from frame to frame, a propotional of the dots moved coherently right or left. The task was to say if the coherently moving dots were moving	ASC group were significantly less accurate than the Ctrl group in classifying anger and happiness and matginally, but not significantly less accurate in classifying fear and sadness. MC accuracy significantly greater in Ctrl group than ASC group and significantly greater	
	displays of either emotions or	the emotion (5 choices) or the action (9 choices)	Range = 18- 58 yrs. Ctrl: N = 16, Range = 17-54 years. Group- matched on age, full-scale IQ, verbal IQ, & performance	HFÅ (n = 1) confirmed by experienced clinician	Coherence (MC) task: 750 dots moving in one of 5 direction randomly from frame to frame, a propotional of the dots moved coherently right or left. The task was to say if the coherently moving dots were moving	ASC group were significantly less accurate than the Ctrl group in classifying anger and happiness and matginally, but not significantly less accurate in classifying fear and sadness. MC accuracy significantly greater in Ctrl group than ASC group and significantly greater MCTs for the ASC group compared to the Ctrl group	
	displays of either emotions or	the emotion (5 choices) or the action (9 choices)	Range = 18- 58 yrs. Ctrl: N = 16, Range = 17-54 years. Group- matched on age, full-scale IQ, verbal IQ, & performance	HFÅ (n = 1) confirmed by experienced clinician	Coherence (MC) task: 750 dots moving in one of 5 direction randomly from frame to frame, a propotional of the dots moved coherently right or left. The task was to say if the coherently moving dots were moving	ASC group were significantly less accurate than the Ctrl group in classifying anger and happiness and matginally, but not significantly less accurate in classifying fear and sadness. MC accuracy significantly greater in Ctrl group than ASC group and significantly greater MCTs for the ASC group compared to the Ctrl group (borderline	
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Cook,	2sec animations of	2AFC: Pick the	ASC: N = 16,	Clinical	2sec	ASC group	Yes
Saygin,	human hand	less natural	M = 34.1yrs,	diagnosis	animations of	exhibited	
Swain &	moving vertically	animation	SD = 12.4 yrs.	confirmed	tennis ball	significantly poorer	
Blakemore,	across the screen		Ctrl: N = 16, M	with ADOS.	moving	performance than	
2009	with either		= 33.3yrs, SD	M = SD =	vertically down	the Ctrl group	
	minimum-jerk		= 12.2yrs.		the screen with	when required to	
	biological motion				either	pick the less	
	(natural motion)				gravitational	natural hand	
	constant velocity				motion,	animation but not	
	(unnatural motion)				constant	when required to	
	or linear				velocity or	pick the less	
	combinations of				linear	natural tennis ball	
	these two				combinations	animation.	
	extremes.				of these two		
					extremes.		
Klin, Lin,	PLD of a child's	PLD and	ASC: N = 21,	Clinical	Inverted	Whereas Ctrl and	Yes but due to
	game accompanied		M = 2.21yrs,	diagnosis	version of the	DD control groups	focus on AV
Ramsay &	with audio			confirmed	PLD played	exhibited	contingency
Jones,			Ctrl: N = 39, M	with ADI-R	backwards.	preferential looking	(ie. not
2009		simultaneously.	•	and ADOS.		towards the upright	,
		Passive	= 0.66yrs. DD:			PLD the ASC	due to poor
		viewing task.	N = 16, M =			group did not.	bio. motion
		Eyetracking	2.02yrs, SD =			However, the ASD	processing)
		data collected.	0.62yrs.			group exhibited	
						preferential looking	
						towards point of	
						audio-visual	
						synchrony.	