Jody C Culham

List of Publications by Year in Descending Order

126 papers	7,874 citations	44 h-index	88 g-index
137 ext. papers	8,976 ext. citations	4.7 avg, IF	6.11 L-index

#	Paper	IF	Citations
126	The advantage of real objects over matched pictures in infantsSprocessing of the familiar size of objects. *Infant and Child Development*, **2021**, 30, e2234	1.4	2
125	The Treachery of Images: How Realism Influences Brain and Behavior. *Trends in Cognitive Sciences*, **2021**, 25, 506-519	14	11
124	Manual exploration of objects is related to 7-month-old infantsSvisual preference for real objects. *Research in Social and Administrative Pharmacy*, **2021**, 62, 101512	2.9	4
123	Differences in size and distance perception between virtual reality and the real world. *Journal of Vision*, **2021**, 21, 2120	0.4	
122	Familiar size affects the perceived size and distance of real objects even with binocular vision. *Journal of Vision*, **2021**, 21, 21	0.4	2
121	Familiar Size Reliably Affects Size and Distance Perception in High-Resolution Virtual Reality. *Journal of Vision*, **2021**, 21, 2977	0.4	
120	Using Functional Near-Infrared Spectroscopy for the Study of Visually Guided Hand Actions. *Journal of Vision*, **2021**, 21, 2958	0.4	
119	Grasping performance depends upon the richness of hand feedback. *Experimental Brain Research*, **2021**, 239, 835-846	2.3	1
118	The toolish hand illusion: embodiment of a tool based on similarity with the hand. *Scientific Reports*, **2021**, 11, 2024	4.9	5
117	Decoding motor imagery and action planning in the early visual cortex: Overlapping but distinct neural mechanisms. *NeuroImage*, **2020**, 218, 116981	7.9	14
116	Do infants show knowledge of the familiar size of everyday objects?. *Journal of Experimental Child Psychology*, **2020**, 195, 104848	2.3	2
115	Decoding representations of food images within the ventral visual stream. *Journal of Vision*, **2020**, 20, 267	0.4	
114	Familiar size affects size and distance perception for real objects, even in the presence of oculomotor cues.. *Journal of Vision*, **2020**, 20, 1568	0.4	
113	Reanalysis Suggests Evidence for Motor Simulation in Naming Tools Is Limited: A Commentary on Witt, Kemmerer, Linkenauger, and Culham (2010). *Psychological Science*, **2020**, 31, 1036-1039	7.9	0
112	Selective Modulation of Early Visual Cortical Activity by Movement Intention. *Cerebral Cortex*, **2019**, 29, 4662-4678	5.1	12
111	The facilitative effect of gestures on the neural processing of semantic complexity in a continuous narrative. *NeuroImage*, **2019**, 195, 38-47	7.9	8
110	Psychophysical and neuroimaging responses to moving stimuli in a patient with the Riddoch phenomenon due to bilateral visual cortex lesions. *Neuropsychologia*, **2019**, 128, 150-165	3.2	10

109	Which brain areas are responsible for which aspects of grasping?. *Journal of Vision*, **2019**, 19, 110b	0.4	2
108	Which aspects of size and distance for real objects are coded through the hierarchy of visual areas?. *Journal of Vision*, **2019**, 19, 15c	0.4	1
107	Adults prefer to look at real objects more than photos. *Journal of Vision*, **2019**, 19, 58c	0.4	
106	Object complexity modulates the association between action and perception in childhood. *Journal of Experimental Child Psychology*, **2019**, 179, 56-72	2.3	8
105	Artificial limb representation in amputees. *Brain*, **2018**, 141, 1422-1433	11.2	32
104	Getting a grip on reality: Grasping movements directed to real objects and images rely on dissociable neural representations. *Cortex*, **2018**, 98, 34-48	3.8	49
103	What Role Does "Elongation" Play in "Tool-Specific" Activation and Connectivity in the Dorsal and Ventral Visual Streams?. *Cerebral Cortex*, **2018**, 28, 1117-1131	5.1	28
102	Human neuroimaging reveals the subcomponents of grasping, reaching and pointing actions. *Cortex*, **2018**, 98, 128-148	3.8	35
101	Flexibility of categorical body representation following limb-loss and prosthesis usage in the occipitotemporal cortex. *Journal of Vision*, **2018**, 18, 431	0.4	
100	Predicting how we grasp arbitrary objects. *Journal of Vision*, **2018**, 18, 179	0.4	
99	Functional interaction between human dorsal premotor cortex and the ipsilateral primary motor cortex for grasp plans: a dual-site TMS study. *NeuroReport*, **2018**, 29, 1355-1359	1.7	12
98	Representation of Multiple Body Parts in the Missing-Hand Territory of Congenital One-Handers. *Current Biology*, **2017**, 27, 1350-1355	6.3	39
97	Human dorsomedial parieto-motor circuit specifies grasp during the planning of goal-directed hand actions. *Cortex*, **2017**, 92, 175-186	3.8	30
96	Adaptable Categorization of Hands and Tools in Prosthesis Users. *Psychological Science*, **2017**, 28, 395-398	6.9	11
95	Recruitment of Foveal Retinotopic Cortex During Haptic Exploration of Shapes and Actions in the Dark. *Journal of Neuroscience*, **2017**, 37, 11572-11591	6.6	16
94	Videos are more effective than pictures at localizing tool- and hand-selective activation in fMRI. *Journal of Vision*, **2017**, 17, 991	0.4	1
93	The large-scale organization of shape processing in the ventral and dorsal pathways. *ELife*, **2017**, 6,	8.9	28
92	A new multivariate analysis method suggests timing is key factor in visually-guided reach-to-grasp movements. *Journal of Vision*, **2017**, 17, 459	0.4	

91	Neuroimaging reveals the human neural representations for visually guided grasping of real objects and pictures. *Journal of Vision*, **2017**, 17, 383	0.4	
90	The large-scale organization of object processing in the ventral and dorsal pathways. *Journal of Vision*, **2017**, 17, 286	0.4	0
89	Decoding real and imagined actions: overlapping but distinct neural representations for planning vs. imagining hand movements. *Journal of Vision*, **2017**, 17, 458	0.4	
88	Disentangling Representations of Object and Grasp Properties in the Human Brain. *Journal of Neuroscience*, **2016**, 36, 7648-62	6.6	62
87	Priming tool actions: Are real objects more effective primes than pictures?. *Experimental Brain Research*, **2016**, 234, 963-76	2.3	20
86	A selective impairment of perception of sound motion direction in peripheral space: A case study. *Neuropsychologia*, **2016**, 80, 79-89	3.2	9
85	Distinct Visual Processing of Real Objects and Pictures of Those Objects in 7- to 9-month-old Infants. *Frontiers in Psychology*, **2016**, 7, 827	3.4	21
84	The Left Hand Doesn't Know What the Right Hand Is Doing-or Does It?. *Cell Reports*, **2016**, 17, 2809-2810	10.6	
83	Do human brain areas involved in visuomotor actions show a preference for real tools over visually similar non-tools?. *Neuropsychologia*, **2015**, 77, 35-41	3.2	29
82	Neural coding within human brain areas involved in actions. *Current Opinion in Neurobiology*, **2015**, 33, 141-9	7.6	140
81	Functional subdivisions of medial parieto-occipital cortex in humans and nonhuman primates using resting-state fMRI. *NeuroImage*, **2015**, 116, 10-29	7.9	37
80	A cortical network that marks the moment when conscious representations are updated. *Neuropsychologia*, **2015**, 79, 113-22	3.2	8
79	Neural correlates of object size and object location during grasping actions. *European Journal of Neuroscience*, **2015**, 41, 454-65	3.5	37
78	Preserved Haptic Shape Processing after Bilateral LOC Lesions. *Journal of Neuroscience*, **2015**, 35, 13745-60	6.6	16
77	Contribution of Bodily and Gravitational Orientation Cues to Face and Letter Recognition. *Multisensory Research*, **2015**, 28, 427-42	1.9	3
76	Cortical Areas Engaged in Movement: Neuroimaging Methods **2015**, 21-29		2
75	Distinct and distributed functional connectivity patterns across cortex reflect the domain-specific constraints of object, face, scene, body, and tool category-selective modules in the ventral visual pathway. *NeuroImage*, **2014**, 96, 216-36	7.9	69
74	Counting on the motor system: rapid action planning reveals the format- and magnitude-dependent extraction of numerical quantity. *Journal of Vision*, **2014**, 14, 30	0.4	16

73	fMRI reveals a lower visual field preference for hand actions in human superior parieto-occipital cortex (SPOC) and precuneus. *Cortex*, **2013**, 49, 2525-41	3.8	55
72	Where one hand meets the other: limb-specific and action-dependent movement plans decoded from preparatory signals in single human frontoparietal brain areas. *Journal of Neuroscience*, **2013**, 33, 1991-2008	6.6	108
71	Activity patterns in the category-selective occipitotemporal cortex predict upcoming motor actions. *European Journal of Neuroscience*, **2013**, 38, 2408-24	3.5	47
70	Connecting the dots: object connectedness deceives perception but not movement planning. *Psychological Science*, **2013**, 24, 1456-65	7.9	16
69	Human fMRI reveals that delayed action re-recruits visual perception. *PLoS ONE*, **2013**, 8, e73629	3.7	59
68	Decoding the neural mechanisms of human tool use. *ELife*, **2013**, 2, e00425	8.9	116
67	fMRI repetition suppression for familiar but not arbitrary actions with tools. *Journal of Neuroscience* , **2012**, 32, 4247-59	6.6	59
66	Functional connectivity of the frontal eye fields in humans and macaque monkeys investigated with resting-state fMRI. *Journal of Neurophysiology*, **2012**, 107, 2463-74	3.2	89
65	New ideas on how drivers perceive speed emerge from the fog. *ELife*, **2012**, 1, e00281	8.9	1
64	Decoding effector-dependent and effector-independent movement intentions from human parieto-frontal brain activity. *Journal of Neuroscience*, **2011**, 31, 17149-68	6.6	114
63	Bringing the real world into the fMRI scanner: repetition effects for pictures versus real objects. *Scientific Reports*, **2011**, 1, 130	4.9	87
62	Mental blocks: fMRI reveals top-down modulation of early visual cortex when obstacles interfere with grasp planning. *Neuropsychologia*, **2011**, 49, 1703-17	3.2	29
61	Neuroimaging reveals enhanced activation in a reach-selective brain area for objects located within participantsStypical hand workspaces. *Neuropsychologia*, **2011**, 49, 3710-21	3.2	42
60	Neural correlates of the multiple-object tracking deficit in amblyopia. *Vision Research*, **2011**, 51, 2517-27	2.1	30
59	To use or to move: goal-set modulates priming when grasping real tools. *Experimental Brain Research*, **2011**, 212, 125-42	2.3	40
58	One to four, and nothing more: nonconscious parallel individuation of objects during action planning. *Psychological Science*, **2011**, 22, 803-11	7.9	46
57	Visual salience dominates early visuomotor competition in reaching behavior. *Journal of Vision*, **2011**, 11,	0.4	27
56	Functional magnetic resonance adaptation reveals the involvement of the dorsomedial stream in hand orientation for grasping. *Journal of Neurophysiology*, **2011**, 106, 2248-63	3.2	65

55	Decoding action intentions from preparatory brain activity in human parieto-frontal networks. *Journal of Neuroscience*, **2011**, 31, 9599-610	6.6	184
54	A functional role for motor simulation in identifying tools. *Psychological Science*, **2010**, 21, 1215-9	7.9	69
53	Functional magnetic resonance imaging reveals the neural substrates of arm transport and grip formation in reach-to-grasp actions in humans. *Journal of Neuroscience*, **2010**, 30, 10306-23	6.6	243
52	Reflections on blindsight: neuroimaging and behavioural explorations clarify a case of reversed localisation in the blind field of a patient with hemianopia. *Canadian Journal of Experimental Psychology*, **2010**, 64, 86-101	0.8	4
51	fMRI activation during observation of othersSreach errors. *Journal of Cognitive Neuroscience*, **2010**, 22, 1493-503	3.1	44
50	Observing learned object-specific functional grasps preferentially activates the ventral stream. *Journal of Cognitive Neuroscience*, **2010**, 22, 970-84	3.1	82
49	Short-term motor plasticity revealed in a visuomotor decision-making task. *Behavioural Brain Research*, **2010**, 214, 130-4	3.4	26
48	Integration of haptic and visual size cues in perception and action revealed through cross-modal conflict. *Experimental Brain Research*, **2010**, 201, 863-73	2.3	36
47	Contribution of visual and proprioceptive information to the precision of reaching movements. *Experimental Brain Research*, **2010**, 202, 15-32	2.3	33
46	Evaluation of preprocessing steps to compensate for magnetic field distortions due to body movements in BOLD fMRI. *Magnetic Resonance Imaging*, **2010**, 28, 235-44	3.3	25
45	Reaching for the unknown: multiple target encoding and real-time decision-making in a rapid reach task. *Cognition*, **2010**, 116, 168-76	3.5	96
44	Is that within reach? fMRI reveals that the human superior parieto-occipital cortex encodes objects reachable by the hand. *Journal of Neuroscience*, **2009**, 29, 4381-91	6.6	155
43	Ventral and dorsal stream contributions to the online control of immediate and delayed grasping: a TMS approach. *Neuropsychologia*, **2009**, 47, 1553-62	3.2	108
42	Differential effects of delay upon visually and haptically guided grasping and perceptual judgments. *Experimental Brain Research*, **2009**, 195, 473-9	2.3	15
41	The role of temporal synchrony as a binding cue for visual persistence in early visual areas: an fMRI study. *Journal of Neurophysiology*, **2009**, 102, 3461-8	3.2	11
40	fMRI reveals greater within- than between-hemifield integration in the human lateral occipital cortex. *European Journal of Neuroscience*, **2008**, 27, 3299-309	3.5	18
39	The neural correlates of change detection in the face perception network. *Neuropsychologia*, **2008**, 46, 2169-76	3.2	18
38	The human dorsal stream adapts to real actions and 3D shape processing: a functional magnetic resonance imaging study. *Journal of Neurophysiology*, **2008**, 100, 2627-39	3.2	61

37	Dual-task interference is greater in delayed grasping than in visually guided grasping. *Journal of Vision*, **2007**, 7, 5.1-12	0.4	39
36	What does the brain do when you fake it? An FMRI study of pantomimed and real grasping. *Journal of Neurophysiology*, **2007**, 97, 2410-22	3.2	101
35	fMRI reveals a preference for near viewing in the human parieto-occipital cortex. *NeuroImage*, **2007** , 36, 167-87	7.9	108
34	Does tool-related fMRI activity within the intraparietal sulcus reflect the plan to grasp?. *NeuroImage*, **2007**, 36 Suppl 2, T94-T108	7.9	106
33	Orientation sensitivity to graspable objects: an fMRI adaptation study. *NeuroImage*, **2007**, 36 Suppl 2, T87-93	7.9	52
32	FMRI reveals a dissociation between grasping and perceiving the size of real 3D objects. *PLoS ONE*, **2007**, 2, e424	3.7	107
31	Human parietal cortex in action. *Current Opinion in Neurobiology*, **2006**, 16, 205-12	7.6	510
30	A double dissociation between sensitivity to changes in object identity and object orientation in the ventral and dorsal visual streams: a human fMRI study. *Neuropsychologia*, **2006**, 44, 218-28	3.2	133
29	The fusiform face area is not sufficient for face recognition: evidence from a patient with dense prosopagnosia and no occipital face area. *Neuropsychologia*, **2006**, 44, 594-609	3.2	177
28	The role of parietal cortex in visuomotor control: what have we learned from neuroimaging?. *Neuropsychologia*, **2006**, 44, 2668-84	3.2	352
27	Dissociating arbitrary stimulus-response mapping from movement planning during preparatory period: evidence from event-related functional magnetic resonance imaging. *Journal of Neuroscience*, **2006**, 26, 2704-13	6.6	81
26	The relationship between fMRI adaptation and repetition priming. *NeuroImage*, **2006**, 32, 1432-40	7.9	46
25	Parietal Cortex **2006**,		1
24	Turn the other cheek: viewpoint aftereffects for faces and objects. *Neuron*, **2005**, 45, 644-5	13.9	1
23	Look before you reach!. *Neuron*, **2005**, 48, 713-4	13.9	1
22	Behavioral and neuroimaging evidence for a contribution of color and texture information to scene classification in a patient with visual form agnosia. *Journal of Cognitive Neuroscience*, **2004**, 16, 955-65	3.1	68
21	Visually guided grasping produces fMRI activation in dorsal but not ventral stream brain areas. *Experimental Brain Research*, **2003**, 153, 180-9	2.3	542
20	Ventral occipital lesions impair object recognition but not object-directed grasping: an fMRI study. *Brain*, **2003**, 126, 2463-75	11.2	473

19	Attention-grabbing motion in the human brain. *Neuron*, **2003**, 40, 451-2	13.9	7
18	The age deficit on photopic counterphase flicker: contrast, spatial frequency, and luminance effects. *Canadian Journal of Experimental Psychology*, **2002**, 56, 177-86	0.8	6
17	Dissociations within association cortex. *Neuron*, **2002**, 33, 318-20	13.9	4
16	Brain activity around the clock. *Trends in Cognitive Sciences*, **2002**, 6, 114	14	
15	Aging effects on vernier hyperacuity: a function of oscillation rate but not target contrast. *Optometry and Vision Science*, **2001**, 78, 676-82	2.1	13
14	Visual motion and the human brain: what has neuroimaging told us?. *Acta Psychologica*, **2001**, 107, 69-94	1.7	82
13	Neuroimaging of cognitive functions in human parietal cortex. *Current Opinion in Neurobiology*, **2001**, 11, 157-63	7.6	666
12	Attention response functions: characterizing brain areas using fMRI activation during parametric variations of attentional load. *Neuron*, **2001**, 32, 737-45	13.9	246
11	There's Waldo!. *Trends in Cognitive Sciences*, **2001**, 5, 231	14	3
10	The brain as film director. *Trends in Cognitive Sciences*, **2001**, 5, 376-377	14	
9	How neurons become BOLD?. *Trends in Cognitive Sciences*, **2001**, 5, 416	14	1
8	Systematic eye movements do not account for the perception of motion during attentive tracking. *Vision Research*, **2001**, 41, 3505-11	2.1	14
7	Distinguishing subregions of the human MT+ complex using visual fields and pursuit eye movements. *Journal of Neurophysiology*, **2001**, 86, 1991-2000	3.2	221
6	Independent aftereffects of attention and motion. *Neuron*, **2000**, 28, 607-15	13.9	70
5	Recovery of fMRI activation in motion area MT following storage of the motion aftereffect. *Journal of Neurophysiology*, **1999**, 81, 388-93	3.2	99
4	Timing in the visual hierarchy. *Trends in Cognitive Sciences*, **1998**, 2, 473	14	2
3	Cortical fMRI activation produced by attentive tracking of moving targets. *Journal of Neurophysiology*, **1998**, 80, 2657-70	3.2	415
2	Motion capture and visual attention: a reply to Ramachandran (1996). *Vision Research*, **1996**, 36, 79-80	2.1	1

1	Motion capture of luminance stimuli by equiluminous color gratings and by attentive tracking. *Vision Research*, **1994**, 34, 2701-6	2.1	29