

Jody C Culham

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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	Neuroimaging of cognitive functions in human parietal cortex. <i>Current Opinion in Neurobiology</i> , 2001 , 11, 157-63	7.6	666
125	Visually guided grasping produces fMRI activation in dorsal but not ventral stream brain areas. <i>Experimental Brain Research</i> , 2003 , 153, 180-9	2.3	542
124	Human parietal cortex in action. <i>Current Opinion in Neurobiology</i> , 2006 , 16, 205-12	7.6	510
123	Ventral occipital lesions impair object recognition but not object-directed grasping: an fMRI study. <i>Brain</i> , 2003 , 126, 2463-75	11.2	473
122	Cortical fMRI activation produced by attentive tracking of moving targets. <i>Journal of Neurophysiology</i> , 1998 , 80, 2657-70	3.2	415
121	The role of parietal cortex in visuomotor control: what have we learned from neuroimaging?. <i>Neuropsychologia</i> , 2006 , 44, 2668-84	3.2	352
120	Attention response functions: characterizing brain areas using fMRI activation during parametric variations of attentional load. <i>Neuron</i> , 2001 , 32, 737-45	13.9	246
119	Functional magnetic resonance imaging reveals the neural substrates of arm transport and grip formation in reach-to-grasp actions in humans. <i>Journal of Neuroscience</i> , 2010 , 30, 10306-23	6.6	243
118	Distinguishing subregions of the human MT+ complex using visual fields and pursuit eye movements. <i>Journal of Neurophysiology</i> , 2001 , 86, 1991-2000	3.2	221
117	Decoding action intentions from preparatory brain activity in human parieto-frontal networks. <i>Journal of Neuroscience</i> , 2011 , 31, 9599-610	6.6	184
116	The fusiform face area is not sufficient for face recognition: evidence from a patient with dense prosopagnosia and no occipital face area. <i>Neuropsychologia</i> , 2006 , 44, 594-609	3.2	177
115	Is that within reach? fMRI reveals that the human superior parieto-occipital cortex encodes objects reachable by the hand. <i>Journal of Neuroscience</i> , 2009 , 29, 4381-91	6.6	155
114	Neural coding within human brain areas involved in actions. <i>Current Opinion in Neurobiology</i> , 2015 , 33, 141-9	7.6	140
113	A double dissociation between sensitivity to changes in object identity and object orientation in the ventral and dorsal visual streams: a human fMRI study. <i>Neuropsychologia</i> , 2006 , 44, 218-28	3.2	133
112	Decoding the neural mechanisms of human tool use. <i>ELife</i> , 2013 , 2, e00425	8.9	116
111	Decoding effector-dependent and effector-independent movement intentions from human parieto-frontal brain activity. <i>Journal of Neuroscience</i> , 2011 , 31, 17149-68	6.6	114
110	Where one hand meets the other: limb-specific and action-dependent movement plans decoded from preparatory signals in single human frontoparietal brain areas. <i>Journal of Neuroscience</i> , 2013 , 33, 1991-2008	6.6	108

109	Ventral and dorsal stream contributions to the online control of immediate and delayed grasping: a TMS approach. <i>Neuropsychologia</i> , 2009 , 47, 1553-62	3.2	108
108	fMRI reveals a preference for near viewing in the human parieto-occipital cortex. <i>NeuroImage</i> , 2007 , 36, 167-87	7.9	108
107	fMRI reveals a dissociation between grasping and perceiving the size of real 3D objects. <i>PLoS ONE</i> , 2007 , 2, e424	3.7	107
106	Does tool-related fMRI activity within the intraparietal sulcus reflect the plan to grasp?. <i>NeuroImage</i> , 2007 , 36 Suppl 2, T94-T108	7.9	106
105	What does the brain do when you fake it? An fMRI study of pantomimed and real grasping. <i>Journal of Neurophysiology</i> , 2007 , 97, 2410-22	3.2	101
104	Recovery of fMRI activation in motion area MT following storage of the motion aftereffect. <i>Journal of Neurophysiology</i> , 1999 , 81, 388-93	3.2	99
103	Reaching for the unknown: multiple target encoding and real-time decision-making in a rapid reach task. <i>Cognition</i> , 2010 , 116, 168-76	3.5	96
102	Functional connectivity of the frontal eye fields in humans and macaque monkeys investigated with resting-state fMRI. <i>Journal of Neurophysiology</i> , 2012 , 107, 2463-74	3.2	89
101	Bringing the real world into the fMRI scanner: repetition effects for pictures versus real objects. <i>Scientific Reports</i> , 2011 , 1, 130	4.9	87
100	Observing learned object-specific functional grasps preferentially activates the ventral stream. <i>Journal of Cognitive Neuroscience</i> , 2010 , 22, 970-84	3.1	82
99	Visual motion and the human brain: what has neuroimaging told us?. <i>Acta Psychologica</i> , 2001 , 107, 69-94	1.7	82
98	Dissociating arbitrary stimulus-response mapping from movement planning during preparatory period: evidence from event-related functional magnetic resonance imaging. <i>Journal of Neuroscience</i> , 2006 , 26, 2704-13	6.6	81
97	Independent aftereffects of attention and motion. <i>Neuron</i> , 2000 , 28, 607-15	13.9	70
96	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. <i>NeuroImage</i> , 2014 , 96, 216-36	7.9	69
95	A functional role for motor simulation in identifying tools. <i>Psychological Science</i> , 2010 , 21, 1215-9	7.9	69
94	Behavioral and neuroimaging evidence for a contribution of color and texture information to scene classification in a patient with visual form agnosia. <i>Journal of Cognitive Neuroscience</i> , 2004 , 16, 955-65	3.1	68
93	Functional magnetic resonance adaptation reveals the involvement of the dorsomedial stream in hand orientation for grasping. <i>Journal of Neurophysiology</i> , 2011 , 106, 2248-63	3.2	65
92	Disentangling Representations of Object and Grasp Properties in the Human Brain. <i>Journal of Neuroscience</i> , 2016 , 36, 7648-62	6.6	62

91	The human dorsal stream adapts to real actions and 3D shape processing: a functional magnetic resonance imaging study. <i>Journal of Neurophysiology</i> , 2008 , 100, 2627-39	3.2	61
90	Human fMRI reveals that delayed action re-recruits visual perception. <i>PLoS ONE</i> , 2013 , 8, e73629	3.7	59
89	fMRI repetition suppression for familiar but not arbitrary actions with tools. <i>Journal of Neuroscience</i> , 2012 , 32, 4247-59	6.6	59
88	fMRI reveals a lower visual field preference for hand actions in human superior parieto-occipital cortex (SPOC) and precuneus. <i>Cortex</i> , 2013 , 49, 2525-41	3.8	55
87	Orientation sensitivity to graspable objects: an fMRI adaptation study. <i>NeuroImage</i> , 2007 , 36 Suppl 2, T87-93	7.9	52
86	Getting a grip on reality: Grasping movements directed to real objects and images rely on dissociable neural representations. <i>Cortex</i> , 2018 , 98, 34-48	3.8	49
85	Activity patterns in the category-selective occipitotemporal cortex predict upcoming motor actions. <i>European Journal of Neuroscience</i> , 2013 , 38, 2408-24	3.5	47
84	One to four, and nothing more: nonconscious parallel individuation of objects during action planning. <i>Psychological Science</i> , 2011 , 22, 803-11	7.9	46
83	The relationship between fMRI adaptation and repetition priming. <i>NeuroImage</i> , 2006 , 32, 1432-40	7.9	46
82	fMRI activation during observation of others' reach errors. <i>Journal of Cognitive Neuroscience</i> , 2010 , 22, 1493-503	3.1	44
81	Neuroimaging reveals enhanced activation in a reach-selective brain area for objects located within participants' typical hand workspaces. <i>Neuropsychologia</i> , 2011 , 49, 3710-21	3.2	42
80	To use or to move: goal-set modulates priming when grasping real tools. <i>Experimental Brain Research</i> , 2011 , 212, 125-42	2.3	40
79	Representation of Multiple Body Parts in the Missing-Hand Territory of Congenital One-Handers. <i>Current Biology</i> , 2017 , 27, 1350-1355	6.3	39
78	Dual-task interference is greater in delayed grasping than in visually guided grasping. <i>Journal of Vision</i> , 2007 , 7, 5.1-12	0.4	39
77	Functional subdivisions of medial parieto-occipital cortex in humans and nonhuman primates using resting-state fMRI. <i>NeuroImage</i> , 2015 , 116, 10-29	7.9	37
76	Neural correlates of object size and object location during grasping actions. <i>European Journal of Neuroscience</i> , 2015 , 41, 454-65	3.5	37
75	Integration of haptic and visual size cues in perception and action revealed through cross-modal conflict. <i>Experimental Brain Research</i> , 2010 , 201, 863-73	2.3	36
74	Human neuroimaging reveals the subcomponents of grasping, reaching and pointing actions. <i>Cortex</i> , 2018 , 98, 128-148	3.8	35

73	Contribution of visual and proprioceptive information to the precision of reaching movements. <i>Experimental Brain Research</i> , 2010 , 202, 15-32	2.3	33
72	Artificial limb representation in amputees. <i>Brain</i> , 2018 , 141, 1422-1433	11.2	32
71	Human dorsomedial parieto-motor circuit specifies grasp during the planning of goal-directed hand actions. <i>Cortex</i> , 2017 , 92, 175-186	3.8	30
70	Neural correlates of the multiple-object tracking deficit in amblyopia. <i>Vision Research</i> , 2011 , 51, 2517-272.1	2.1	30
69	Do human brain areas involved in visuomotor actions show a preference for real tools over visually similar non-tools?. <i>Neuropsychologia</i> , 2015 , 77, 35-41	3.2	29
68	Mental blocks: fMRI reveals top-down modulation of early visual cortex when obstacles interfere with grasp planning. <i>Neuropsychologia</i> , 2011 , 49, 1703-17	3.2	29
67	Motion capture of luminance stimuli by equiluminous color gratings and by attentive tracking. <i>Vision Research</i> , 1994 , 34, 2701-6	2.1	29
66	What Role Does "Elongation" Play in "Tool-Specific" Activation and Connectivity in the Dorsal and Ventral Visual Streams?. <i>Cerebral Cortex</i> , 2018 , 28, 1117-1131	5.1	28
65	The large-scale organization of shape processing in the ventral and dorsal pathways. <i>ELife</i> , 2017 , 6,	8.9	28
64	Visual salience dominates early visuomotor competition in reaching behavior. <i>Journal of Vision</i> , 2011 , 11,	0.4	27
63	Short-term motor plasticity revealed in a visuomotor decision-making task. <i>Behavioural Brain Research</i> , 2010 , 214, 130-4	3.4	26
62	Evaluation of preprocessing steps to compensate for magnetic field distortions due to body movements in BOLD fMRI. <i>Magnetic Resonance Imaging</i> , 2010 , 28, 235-44	3.3	25
61	Distinct Visual Processing of Real Objects and Pictures of Those Objects in 7- to 9-month-old Infants. <i>Frontiers in Psychology</i> , 2016 , 7, 827	3.4	21
60	Priming tool actions: Are real objects more effective primes than pictures?. <i>Experimental Brain Research</i> , 2016 , 234, 963-76	2.3	20
59	fMRI reveals greater within- than between-hemifield integration in the human lateral occipital cortex. <i>European Journal of Neuroscience</i> , 2008 , 27, 3299-309	3.5	18
58	The neural correlates of change detection in the face perception network. <i>Neuropsychologia</i> , 2008 , 46, 2169-76	3.2	18
57	Preserved Haptic Shape Processing after Bilateral LOC Lesions. <i>Journal of Neuroscience</i> , 2015 , 35, 13745-60	6.0	16
56	Recruitment of Foveal Retinotopic Cortex During Haptic Exploration of Shapes and Actions in the Dark. <i>Journal of Neuroscience</i> , 2017 , 37, 11572-11591	6.6	16

55	Counting on the motor system: rapid action planning reveals the format- and magnitude-dependent extraction of numerical quantity. <i>Journal of Vision</i> , 2014 , 14, 30	0.4	16
54	Connecting the dots: object connectedness deceives perception but not movement planning. <i>Psychological Science</i> , 2013 , 24, 1456-65	7.9	16
53	Differential effects of delay upon visually and haptically guided grasping and perceptual judgments. <i>Experimental Brain Research</i> , 2009 , 195, 473-9	2.3	15
52	Decoding motor imagery and action planning in the early visual cortex: Overlapping but distinct neural mechanisms. <i>NeuroImage</i> , 2020 , 218, 116981	7.9	14
51	Systematic eye movements do not account for the perception of motion during attentive tracking. <i>Vision Research</i> , 2001 , 41, 3505-11	2.1	14
50	Aging effects on vernier hyperacuity: a function of oscillation rate but not target contrast. <i>Optometry and Vision Science</i> , 2001 , 78, 676-82	2.1	13
49	Selective Modulation of Early Visual Cortical Activity by Movement Intention. <i>Cerebral Cortex</i> , 2019 , 29, 4662-4678	5.1	12
48	Functional interaction between human dorsal premotor cortex and the ipsilateral primary motor cortex for grasp plans: a dual-site TMS study. <i>NeuroReport</i> , 2018 , 29, 1355-1359	1.7	12
47	Adaptable Categorization of Hands and Tools in Prosthesis Users. <i>Psychological Science</i> , 2017 , 28, 395-398	3.9	11
46	The role of temporal synchrony as a binding cue for visual persistence in early visual areas: an fMRI study. <i>Journal of Neurophysiology</i> , 2009 , 102, 3461-8	3.2	11
45	The Treachery of Images: How Realism Influences Brain and Behavior. <i>Trends in Cognitive Sciences</i> , 2021 , 25, 506-519	14	11
44	Psychophysical and neuroimaging responses to moving stimuli in a patient with the Riddoch phenomenon due to bilateral visual cortex lesions. <i>Neuropsychologia</i> , 2019 , 128, 150-165	3.2	10
43	A selective impairment of perception of sound motion direction in peripheral space: A case study. <i>Neuropsychologia</i> , 2016 , 80, 79-89	3.2	9
42	The facilitative effect of gestures on the neural processing of semantic complexity in a continuous narrative. <i>NeuroImage</i> , 2019 , 195, 38-47	7.9	8
41	A cortical network that marks the moment when conscious representations are updated. <i>Neuropsychologia</i> , 2015 , 79, 113-22	3.2	8
40	Object complexity modulates the association between action and perception in childhood. <i>Journal of Experimental Child Psychology</i> , 2019 , 179, 56-72	2.3	8
39	Attention-grabbing motion in the human brain. <i>Neuron</i> , 2003 , 40, 451-2	13.9	7
38	The age deficit on photopic counterphase flicker: contrast, spatial frequency, and luminance effects. <i>Canadian Journal of Experimental Psychology</i> , 2002 , 56, 177-86	0.8	6

37	The toolish hand illusion: embodiment of a tool based on similarity with the hand. <i>Scientific Reports</i> , 2021 , 11, 2024	4.9	5
36	Reflections on blindsight: neuroimaging and behavioural explorations clarify a case of reversed localisation in the blind field of a patient with hemianopia. <i>Canadian Journal of Experimental Psychology</i> , 2010 , 64, 86-101	0.8	4
35	Dissociations within association cortex. <i>Neuron</i> , 2002 , 33, 318-20	13.9	4
34	Manual exploration of objects is related to 7-month-old infants's visual preference for real objects. <i>Research in Social and Administrative Pharmacy</i> , 2021 , 62, 101512	2.9	4
33	Contribution of Bodily and Gravitational Orientation Cues to Face and Letter Recognition. <i>Multisensory Research</i> , 2015 , 28, 427-42	1.9	3
32	There's Waldo!. <i>Trends in Cognitive Sciences</i> , 2001 , 5, 231	14	3
31	Do infants show knowledge of the familiar size of everyday objects?. <i>Journal of Experimental Child Psychology</i> , 2020 , 195, 104848	2.3	2
30	Timing in the visual hierarchy. <i>Trends in Cognitive Sciences</i> , 1998 , 2, 473	14	2
29	Which brain areas are responsible for which aspects of grasping?. <i>Journal of Vision</i> , 2019 , 19, 110b	0.4	2
28	Cortical Areas Engaged in Movement: Neuroimaging Methods 2015 , 21-29		2
27	The advantage of real objects over matched pictures in infants's processing of the familiar size of objects. <i>Infant and Child Development</i> , 2021 , 30, e2234	1.4	2
26	Familiar size affects the perceived size and distance of real objects even with binocular vision. <i>Journal of Vision</i> , 2021 , 21, 21	0.4	2
25	Turn the other cheek: viewpoint aftereffects for faces and objects. <i>Neuron</i> , 2005 , 45, 644-5	13.9	1
24	Look before you reach!. <i>Neuron</i> , 2005 , 48, 713-4	13.9	1
23	Parietal Cortex 2006 ,		1
22	How neurons become BOLD?. <i>Trends in Cognitive Sciences</i> , 2001 , 5, 416	14	1
21	Motion capture and visual attention: a reply to Ramachandran (1996). <i>Vision Research</i> , 1996 , 36, 79-80	2.1	1
20	Videos are more effective than pictures at localizing tool- and hand-selective activation in fMRI. <i>Journal of Vision</i> , 2017 , 17, 991	0.4	1

19	New ideas on how drivers perceive speed emerge from the fog. <i>ELife</i> , 2012 , 1, e00281	8.9	1
18	Which aspects of size and distance for real objects are coded through the hierarchy of visual areas?. <i>Journal of Vision</i> , 2019 , 19, 15c	0.4	1
17	Grasping performance depends upon the richness of hand feedback. <i>Experimental Brain Research</i> , 2021 , 239, 835-846	2.3	1
16	The large-scale organization of object processing in the ventral and dorsal pathways. <i>Journal of Vision</i> , 2017 , 17, 286	0.4	0
15	Reanalysis Suggests Evidence for Motor Simulation in Naming Tools Is Limited: A Commentary on Witt, Kemmerer, Linkenauger, and Culham (2010). <i>Psychological Science</i> , 2020 , 31, 1036-1039	7.9	0
14	Brain activity around the clock. <i>Trends in Cognitive Sciences</i> , 2002 , 6, 114	14	
13	The brain as film director. <i>Trends in Cognitive Sciences</i> , 2001 , 5, 376-377	14	
12	Decoding representations of food images within the ventral visual stream. <i>Journal of Vision</i> , 2020 , 20, 267	0.4	
11	Familiar size affects size and distance perception for real objects, even in the presence of oculomotor cues.. <i>Journal of Vision</i> , 2020 , 20, 1568	0.4	
10	Flexibility of categorical body representation following limb-loss and prosthesis usage in the occipitotemporal cortex. <i>Journal of Vision</i> , 2018 , 18, 431	0.4	
9	Predicting how we grasp arbitrary objects. <i>Journal of Vision</i> , 2018 , 18, 179	0.4	
8	Adults prefer to look at real objects more than photos. <i>Journal of Vision</i> , 2019 , 19, 58c	0.4	
7	A new multivariate analysis method suggests timing is key factor in visually-guided reach-to-grasp movements. <i>Journal of Vision</i> , 2017 , 17, 459	0.4	
6	Neuroimaging reveals the human neural representations for visually guided grasping of real objects and pictures. <i>Journal of Vision</i> , 2017 , 17, 383	0.4	
5	Decoding real and imagined actions: overlapping but distinct neural representations for planning vs. imagining hand movements. <i>Journal of Vision</i> , 2017 , 17, 458	0.4	
4	The Left Hand Doesn't Know What the Right Hand Is Doing-or Does It?. <i>Cell Reports</i> , 2016 , 17, 2809-2810	10.6	
3	Differences in size and distance perception between virtual reality and the real world. <i>Journal of Vision</i> , 2021 , 21, 2120	0.4	
2	Familiar Size Reliably Affects Size and Distance Perception in High-Resolution Virtual Reality. <i>Journal of Vision</i> , 2021 , 21, 2977	0.4	

- 1 Using Functional Near-Infrared Spectroscopy for the Study of Visually Guided Hand Actions. *Journal of Vision*, **2021**, 21, 2958 0.4