

Matthew Heath

List of Publications by Year in descending order

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112
papers

2,696
citations

201674

27
h-index

233421

45
g-index

113
all docs

113
docs citations

113
times ranked

1149
citing authors

#	ARTICLE	IF	CITATIONS
1	The control of goal-directed limb movements: Correcting errors in the trajectory. <i>Human Movement Science</i> , 1999, 18, 121-136.	1.4	162
2	The effect of a pictorial illusion on closed-loop and open-loop prehension. <i>Experimental Brain Research</i> , 2000, 134, 456-463.	1.5	118
3	The Control of Memory-Guided Reaching Movements in Peripersonal Space. <i>Motor Control</i> , 2004, 8, 76-106.	0.6	116
4	On-line control of rapid aiming movements: Unexpected target perturbations and movement kinematics.. <i>Canadian Journal of Experimental Psychology</i> , 1998, 52, 163-173.	0.8	104
5	Role of Limb and Target Vision in the Online Control of Memory-Guided Reaches. <i>Motor Control</i> , 2005, 9, 281-309.	0.6	101
6	Goal-Directed Aiming: Correcting a Force-Specification Error With the Right and Left Hands. <i>Journal of Motor Behavior</i> , 1999, 31, 309-324.	0.9	93
7	Background visual cues and memory-guided reaching. <i>Human Movement Science</i> , 2004, 23, 861-877.	1.4	85
8	No Evidence for Accurate Visuomotor Memory: Systematic and Variable Error in Memory-Guided Reaching. <i>Journal of Motor Behavior</i> , 2003, 35, 127-133.	0.9	79
9	The proximity of visual landmarks impacts reaching performance. <i>Spatial Vision</i> , 2007, 20, 317-336.	1.4	54
10	The accuracy of reaching movements in brief delay conditions.. <i>Canadian Journal of Experimental Psychology</i> , 2001, 55, 304-310.	0.8	52
11	Visuomotor system uses target features unavailable to conscious awareness. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 12669-12672.	7.1	52
12	Goal-directed grasping: The dimensional properties of an object influence the nature of the visual information mediating aperture shaping. <i>Brain and Cognition</i> , 2013, 82, 18-24.	1.8	52
13	Visuomotor memory is independent of conscious awareness of target features. <i>Experimental Brain Research</i> , 2008, 188, 517-527.	1.5	50
14	The visual coding of grip aperture shows an early but not late adherence to Weber's law. <i>Neuroscience Letters</i> , 2011, 490, 200-204.	2.1	43
15	Can the motor system resolve a premovement bias in grip aperture? Online analysis of grasping the Müller-Lyer illusion. <i>Experimental Brain Research</i> , 2004, 158, 378-84.	1.5	41
16	Time Course Analysis of Closed- and Open-Loop Grasping of the Müller-Lyer Illusion. <i>Journal of Motor Behavior</i> , 2005, 37, 179-185.	0.9	41
17	Goal-directed reaching: movement strategies influence the weighting of allocentric and egocentric visual cues. <i>Experimental Brain Research</i> , 2008, 186, 375-384.	1.5	41
18	The unidirectional prosaccade switch-cost: Correct and error antisaccades differentially influence the planning times for subsequent prosaccades. <i>Vision Research</i> , 2014, 96, 17-24.	1.4	38

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19	Visually and memory-guided grasping: Aperture shaping exhibits a time-dependent scaling to Weber's law. <i>Vision Research</i> , 2011, 51, 1941-1948.	1.4	37
20	Can a Visual Representation Support the Online Control of Memory-Dependent Reaching? Evidence from a Variable Spatial Mapping Paradigm. <i>Motor Control</i> , 2003, 7, 349-365.	0.6	36
21	Task-switching in oculomotor control: Unidirectional switch-cost when alternating between pro- and antisaccades. <i>Neuroscience Letters</i> , 2012, 530, 150-154.	2.1	36
22	Oculomotor task switching: alternating from a nonstandard to a standard response yields the unidirectional prosaccade switch-cost. <i>Journal of Neurophysiology</i> , 2014, 112, 2176-2184.	1.8	35
23	Visuomotor Memory for Target Location in Near and Far Reaching Spaces. <i>Journal of Motor Behavior</i> , 2007, 39, 169-177.	0.9	33
24	Visual feedback schedules influence visuomotor resistance to the Müller-Lyer figures. <i>Experimental Brain Research</i> , 2006, 168, 348-356.	1.5	32
25	A lower visual field advantage for endpoint stability but no advantage for online movement precision. <i>Experimental Brain Research</i> , 2006, 170, 127-135.	1.5	31
26	Grasping time does not influence the early adherence of aperture shaping to Weber's law. <i>Frontiers in Human Neuroscience</i> , 2012, 6, 332.	2.0	31
27	Distinct Visual Cues Mediate Aperture Shaping for Grasping and Pantomime-Grasping Tasks. <i>Journal of Motor Behavior</i> , 2013, 45, 431-439.	0.9	30
28	Perceptual averaging governs antisaccade endpoint bias. <i>Experimental Brain Research</i> , 2014, 232, 3201-3210.	1.5	29
29	Executive-related oculomotor control is improved following a 10-min single-bout of aerobic exercise: Evidence from the antisaccade task. <i>Neuropsychologia</i> , 2018, 108, 73-81.	1.6	28
30	Anti-pointing is mediated by a perceptual bias of target location in left and right visual space. <i>Experimental Brain Research</i> , 2009, 192, 275-286.	1.5	27
31	Interhemispheric transmission time in persons with Down syndrome. <i>Journal of Intellectual Disability Research</i> , 2007, 51, 972-981.	2.0	25
32	Stimulus-driven saccades are characterized by an invariant undershooting bias: no evidence for a range effect. <i>Experimental Brain Research</i> , 2013, 230, 165-174.	1.5	24
33	Grasping a 2D object: terminal haptic feedback supports an absolute visuo-haptic calibration. <i>Experimental Brain Research</i> , 2016, 234, 945-954.	1.5	24
34	A 24-Week Multi-Modality Exercise Program Improves Executive Control in Older Adults with a Self-Reported Cognitive Complaint: Evidence from the Antisaccade Task. <i>Journal of Alzheimer's Disease</i> , 2017, 56, 167-183.	2.6	24
35	Vector inversion diminishes the online control of antisaccades. <i>Experimental Brain Research</i> , 2011, 209, 117-127.	1.5	23
36	Manual asymmetries in bimanual reaching: The influence of spatial compatibility and visuospatial attention. <i>Brain and Cognition</i> , 2005, 57, 102-105.	1.8	22

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37	Antipointing: perception-based visual information renders an offline mode of control. <i>Experimental Brain Research</i> , 2010, 202, 55-64.	1.5	22
38	Weber's law in tactile grasping and manual estimation: Feedback-dependent evidence for functionally distinct processing streams. <i>Brain and Cognition</i> , 2014, 86, 32-41.	1.8	22
39	The unidirectional prosaccade switch-cost: Electroencephalographic evidence of task-set inertia in oculomotor control. <i>Behavioural Brain Research</i> , 2015, 278, 323-329.	2.2	22
40	Oculomotor Executive Dysfunction during the Early and Later Stages of Sport-Related Concussion Recovery. <i>Journal of Neurotrauma</i> , 2018, 35, 1874-1881.	3.4	22
41	Visuomotor mental rotation: Reaction time is determined by the complexity of the sensorimotor transformations mediating the response. <i>Brain Research</i> , 2010, 1366, 129-140.	2.2	21
42	Müller-Lyer figures influence the online reorganization of visually guided grasping movements. <i>Experimental Brain Research</i> , 2006, 169, 473-481.	1.5	20
43	The prior-antisaccade effect influences the planning and online control of prosaccades. <i>Experimental Brain Research</i> , 2012, 216, 545-552.	1.5	20
44	A Six-Month Cognitive-Motor and Aerobic Exercise Program Improves Executive Function in Persons with an Objective Cognitive Impairment: A Pilot Investigation Using the Antisaccade Task. <i>Journal of Alzheimer's Disease</i> , 2016, 54, 923-931.	2.6	20
45	Results From a Feasibility Study of Square-Stepping Exercise in Older Adults With Type 2 Diabetes and Self-Reported Cognitive Complaints to Improve Global Cognitive Functioning. <i>Canadian Journal of Diabetes</i> , 2018, 42, 603-612.e1.	0.8	20
46	Older adults elicit a single-bout post-exercise executive benefit across a continuum of aerobically supported metabolic intensities. <i>Brain Research</i> , 2019, 1712, 197-206.	2.2	20
47	Increased cerebral blood flow supports a single-bout postexercise benefit to executive function: evidence from hypercapnia. <i>Journal of Neurophysiology</i> , 2020, 124, 930-940.	1.8	20
48	Antisaccades exhibit diminished online control relative to prosaccades. <i>Experimental Brain Research</i> , 2010, 203, 743-752.	1.5	19
49	The Antipointing Task: Vector Inversion Is Supported by a Perceptual Estimate of Visual Space. <i>Journal of Motor Behavior</i> , 2009, 41, 383-392.	0.9	18
50	Revisiting Fitts and Peterson (1964): Width and amplitude manipulations to the reaching environment elicit dissociable movement times.. <i>Canadian Journal of Experimental Psychology</i> , 2011, 65, 259-268.	0.8	18
51	Memory delay and haptic feedback influence the dissociation of tactile cues for perception and action. <i>Neuropsychologia</i> , 2015, 71, 91-100.	1.6	18
52	Pantomime-grasping: the "return" of haptic feedback supports the absolute specification of object size. <i>Experimental Brain Research</i> , 2015, 233, 2029-2040.	1.5	18
53	Target frequency influences antisaccade endpoint bias: Evidence for perceptual averaging. <i>Vision Research</i> , 2014, 105, 151-158.	1.4	17
54	Pantomime-Grasping: Advance Knowledge of Haptic Feedback Availability Supports an Absolute Visuo-Haptic Calibration. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 197.	2.0	17

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55	Biomechanical constraints do not influence pantomime-grasping adherence to Weber's law: A reply to Uitz et al. (2015). <i>Vision Research</i> , 2017, 130, 31-35.	1.4	17
56	Repetitive antisaccade execution does not increase the unidirectional prosaccade switch-cost. <i>Acta Psychologica</i> , 2014, 146, 67-72.	1.5	16
57	A post-exercise facilitation of executive function is independent of aerobically supported metabolic costs. <i>Neuropsychologia</i> , 2018, 120, 65-74.	1.6	16
58	Exercise and Executive Function during Follicular and Luteal Menstrual Cycle Phases. <i>Medicine and Science in Sports and Exercise</i> , 2020, 52, 919-927.	0.4	16
59	Can the motor system utilize a stored representation to control movement?. <i>Behavioral and Brain Sciences</i> , 2004, 27, .	0.7	15
60	Augmented feedback influences upper limb reaching movement times but does not explain violations of Fitts' Law. <i>Frontiers in Psychology</i> , 2015, 6, 800.	2.1	15
61	Electroencephalographic evidence of vector inversion in antipointing. <i>Experimental Brain Research</i> , 2012, 221, 19-26.	1.5	14
62	Manual asymmetries in tool-use: Implications for apraxia. <i>Laterality</i> , 2002, 7, 131-143.	1.0	13
63	Visuomotor mental rotation: Reaction time is not a function of the angle of rotation. <i>Neuroscience Letters</i> , 2009, 463, 194-198.	2.1	13
64	An Inverse Grip Starting Posture Gives Rise to Time-Dependent Adherence to Weber's Law: A Reply to Ganel et al. (2014). <i>Journal of Vision</i> , 2015, 15, 1.	0.3	13
65	Vision for action and perception elicit dissociable adherence to Weber's law across a range of "graspable" target objects. <i>Experimental Brain Research</i> , 2017, 235, 3003-3012.	1.5	13
66	The Antisaccade Task: Visual Distractors Elicit a Location-Independent Planning "Cost". <i>PLoS ONE</i> , 2015, 10, e0122345.	2.5	13
67	Can a visual representation support the online control of memory-dependent reaching? Evident from a variable spatial mapping paradigm. <i>Motor Control</i> , 2003, 7, 346-61.	0.6	13
68	Response Suppression Delays the Planning of Subsequent Stimulus-Driven Saccades. <i>PLoS ONE</i> , 2014, 9, e86408.	2.5	12
69	Event-related brain potentials during the visuomotor mental rotation task: The contingent negative variation scales to angle of rotation. <i>Neuroscience</i> , 2015, 311, 153-165.	2.3	12
70	A Single Bout of Aerobic Exercise Provides an Immediate "Boost" to Cognitive Flexibility. <i>Frontiers in Psychology</i> , 2020, 11, 1106.	2.1	12
71	Egocentric and Allocentric Visual Cues Influence the Specification of Movement Distance and Direction. <i>Journal of Motor Behavior</i> , 2008, 40, 203-213.	0.9	11
72	Response Modes Influence the Accuracy of Monocular and Binocular Reaching Movements. <i>Motor Control</i> , 2008, 12, 252-266.	0.6	11

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73	Alternating between pro- and antisaccades: switch-costs manifest via decoupling the spatial relations between stimulus and response. <i>Experimental Brain Research</i> , 2016, 234, 853-865.	1.5	11
74	Action Without Awareness: Reaching to an Object You Do Not Remember Seeing. <i>PLoS ONE</i> , 2008, 3, e3539.	2.5	11
75	A Single Bout of Exercise Provides a Persistent Benefit to Cognitive Flexibility. <i>Research Quarterly for Exercise and Sport</i> , 2022, 93, 516-527.	1.4	11
76	Relative Processing Demands Influence Cerebral Laterality for Verbal-Motor Integration in Persons with Down Syndrome. <i>Cortex</i> , 2005, 41, 61-66.	2.4	10
77	The antisaccade task: Vector inversion contributes to a statistical summary representation of target eccentricities. <i>Journal of Vision</i> , 2015, 15, 4.	0.3	10
78	Manual estimations of functionally graspable target objects adhere to Weber's law. <i>Experimental Brain Research</i> , 2017, 235, 1701-1707.	1.5	10
79	Visuomotor mental rotation: the reaction time advantage for anti-pointing is not influenced by perceptual experience with the cardinal axes. <i>Experimental Brain Research</i> , 2010, 201, 593-598.	1.5	9
80	Fitts' Theorem in Oculomotor Control: Dissociable Movement Times for Amplitude and Width Manipulations. <i>Journal of Motor Behavior</i> , 2016, 48, 489-499.	0.9	9
81	Response suppression produces a switch-cost for spatially compatible saccades. <i>Experimental Brain Research</i> , 2019, 237, 1195-1203.	1.5	9
82	Role of the visuomotor system in on-line attenuation of a premovement illusory bias in grip aperture. <i>Brain and Cognition</i> , 2005, 57, 111-114.	1.8	8
83	Action control: Independent effects of memory and monocular viewing on reaching accuracy. <i>Brain and Cognition</i> , 2005, 57, 257-260.	1.8	8
84	The Visuomotor Mental Rotation Task: Visuomotor Transformation Times Are Reduced for Small and Perceptually Familiar Angles. <i>Journal of Motor Behavior</i> , 2011, 43, 393-402.	0.9	8
85	Pro- and Antisaccades: Dissociating Stimulus and Response Influences the Online Control of Saccade Trajectories. <i>Journal of Motor Behavior</i> , 2011, 43, 375-381.	0.9	8
86	Reduced Cortical Motor Potentials Underlie Reductions in Memory-Guided Reaching Performance. <i>Motor Control</i> , 2012, 16, 353-370.	0.6	8
87	The spatial relations between stimulus and response determine an absolute visuo-haptic calibration in pantomime-grasping. <i>Brain and Cognition</i> , 2017, 114, 29-39.	1.8	8
88	Hand anthropometry and the limits of aperture separation determine the utility of Weber's law in grasping and manual estimation. <i>Experimental Brain Research</i> , 2018, 236, 2439-2446.	1.5	8
89	Pupillometry Reveals the Role of Arousal in a Postexercise Benefit to Executive Function. <i>Brain Sciences</i> , 2021, 11, 1048.	2.3	8
90	Exercise intensity-specific changes to cerebral blood velocity do not modulate a postexercise executive function benefit. <i>Neuropsychologia</i> , 2021, 161, 108018.	1.6	8

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91	Pro- and antisaccade task-switching: response suppression and not vector inversion contributes to a task-set inertia. <i>Experimental Brain Research</i> , 2019, 237, 3475-3484.	1.5	7
92	Executive Dysfunction after a Sport-Related Concussion Is Independent of Task-Based Symptom Burden. <i>Journal of Neurotrauma</i> , 2020, 37, 2558-2568.	3.4	7
93	Passive exercise increases cerebral blood flow velocity and supports a postexercise executive function benefit. <i>Psychophysiology</i> , 2022, 59, .	2.4	7
94	A single bout of moderate intensity exercise improves cognitive flexibility: evidence from task-switching. <i>Experimental Brain Research</i> , 2020, 238, 2333-2346.	1.5	6
95	Electroencephalographic evidence for a reinforcement learning advantage during motor skill acquisition. <i>Biological Psychology</i> , 2020, 151, 107849.	2.2	6
96	Allocentric visual cues influence online limb adjustments. <i>Motor Control</i> , 2007, 11, 54-70.	0.6	6
97	Corrections in saccade endpoints scale to the amplitude of target displacements in a double-step paradigm. <i>Neuroscience Letters</i> , 2016, 611, 46-50.	2.1	5
98	Long-Term Maintenance of Executive-Related Oculomotor Improvements in Older Adults with Self-Reported Cognitive Complaints Following a 24-Week Multiple Modality Exercise Program. <i>Journal of Alzheimer's Disease</i> , 2017, 58, 17-22.	2.6	5
99	Task-Switching Effects for Visual and Auditory Pro- and Antisaccades: Evidence for a Task-Set Inertia. <i>Journal of Motor Behavior</i> , 2015, 47, 319-327.	0.9	4
100	Haptic feedback attenuates illusory bias in pantomime-grasping: evidence for a visuo-haptic calibration. <i>Experimental Brain Research</i> , 2017, 235, 1041-1051.	1.5	4
101	Visuomotor mental rotation of a saccade: The contingent negative variation scales to the angle of rotation. <i>Vision Research</i> , 2018, 143, 82-88.	1.4	4
102	Delaying a saccade: Preparatory phase cortical hemodynamics evince the neural cost of response inhibition. <i>Brain and Cognition</i> , 2021, 154, 105808.	1.8	4
103	Tactile-Based Pantomime Grasping: Knowledge of Results is Not Enough to Support an Absolute Calibration. <i>Journal of Motor Behavior</i> , 2019, 51, 10-18.	0.9	3
104	A summary statistical representation influences perceptions but not visually or memory-guided grasping. <i>Human Movement Science</i> , 2021, 75, 102739.	1.4	2
105	The visual properties of proximal and remote distractors differentially influence reaching planning times: evidence from pro- and antipointing tasks. <i>Experimental Brain Research</i> , 2016, 234, 3259-3268.	1.5	1
106	Fitts' Theorem and Movement Time Dissociation for Amplitude and Width Manipulations: Replying to Hoffmann. <i>Journal of Motor Behavior</i> , 2017, 49, 694-696.	0.9	1
107	Alternating Between Stimulus-Driven and Minimally-Delayed Prosaccades: Switch-Costs Manifest via Response Suppression. <i>Journal of Vision</i> , 2019, 19, 83c.	0.3	1
108	Evaluating the efficacy of an iPad app in determining a single bout of exercise benefit to executive function. <i>Behavior Research Methods</i> , 2022, 54, 2398-2408.	4.0	1

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109	Goal-directed reaching: the allocentric coding of target location renders an offline mode of control. <i>Experimental Brain Research</i> , 2018, 236, 1149-1159.	1.5	0
110	Visually guided saccades and acoustic distractors: no evidence for the remote distractor effect or global effect. <i>Experimental Brain Research</i> , 2021, 239, 59-66.	1.5	0
111	Distinct visual resolution supports aperture shaping in natural and pantomime-grasping.. <i>Canadian Journal of Experimental Psychology</i> , 2022, 76, 22-28.	0.8	0
112	The unidirectional prosaccade switch-cost: no evidence for the passive dissipation of an oculomotor task-set inertia. <i>Experimental Brain Research</i> , 0, , .	1.5	0