

Matthew B Pontifex

List of Publications by Year in descending order

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Version: 2024-02-01

95
papers

7,885
citations

61984

43
h-index

51608

86
g-index

96
all docs

96
docs citations

96
times ranked

5598
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of acute treadmill walking on cognitive control and academic achievement in preadolescent children. <i>Neuroscience</i> , 2009, 159, 1044-1054.	2.3	578
2	A neuroimaging investigation of the association between aerobic fitness, hippocampal volume, and memory performance in preadolescent children. <i>Brain Research</i> , 2010, 1358, 172-183.	2.2	516
3	Effects of the FITKids Randomized Controlled Trial on Executive Control and Brain Function. <i>Pediatrics</i> , 2014, 134, e1063-e1071.	2.1	447
4	Aerobic fitness and cognitive development: Event-related brain potential and task performance indices of executive control in preadolescent children.. <i>Developmental Psychology</i> , 2009, 45, 114-129.	1.6	337
5	Exercise Improves Behavioral, Neurocognitive, and Scholastic Performance in Children with Attention-Deficit/Hyperactivity Disorder. <i>Journal of Pediatrics</i> , 2013, 162, 543-551.	1.8	277
6	Basal Ganglia Volume Is Associated with Aerobic Fitness in Preadolescent Children. <i>Developmental Neuroscience</i> , 2010, 32, 249-256.	2.0	270
7	A Review of the Relation of Aerobic Fitness and Physical Activity to Brain Structure and Function in Children. <i>Journal of the International Neuropsychological Society</i> , 2011, 17, 975-985.	1.8	267
8	The Effect of Acute Aerobic and Resistance Exercise on Working Memory. <i>Medicine and Science in Sports and Exercise</i> , 2009, 41, 927-934.	0.4	263
9	Cardiorespiratory Fitness and the Flexible Modulation of Cognitive Control in Preadolescent Children. <i>Journal of Cognitive Neuroscience</i> , 2011, 23, 1332-1345.	2.3	259
10	The effects of an afterschool physical activity program on working memory in preadolescent children. <i>Developmental Science</i> , 2011, 14, 1046-1058.	2.4	245
11	Physical activity and cognitive function in a cross-section of younger and older community-dwelling individuals.. <i>Health Psychology</i> , 2006, 25, 678-687.	1.6	203
12	Acute exercise facilitates brain function and cognition in children who need it most: An ERP study of individual differences in inhibitory control capacity. <i>Developmental Cognitive Neuroscience</i> , 2014, 7, 53-64.	4.0	201
13	A primer on investigating the after effects of acute bouts of physical activity on cognition. <i>Psychology of Sport and Exercise</i> , 2019, 40, 1-22.	2.1	199
14	The effects of physical activity on functional MRI activation associated with cognitive control in children: a randomized controlled intervention. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 72.	2.0	181
15	The Relation of Adiposity to Cognitive Control and Scholastic Achievement in Preadolescent Children. <i>Obesity</i> , 2012, 20, 2406-2411.	3.0	171
16	Aerobic fitness is associated with greater efficiency of the network underlying cognitive control in preadolescent children. <i>Neuroscience</i> , 2011, 199, 166-176.	2.3	160
17	A functional MRI investigation of the association between childhood aerobic fitness and neurocognitive control. <i>Biological Psychology</i> , 2012, 89, 260-268.	2.2	150
18	Aerobic fitness is associated with greater white matter integrity in children. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 584.	2.0	150

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19	Childhood aerobic fitness predicts cognitive performance one year later. <i>Journal of Sports Sciences</i> , 2012, 30, 421-430.	2.0	143
20	Age, physical fitness, and attention: P3a and P3b. <i>Psychophysiology</i> , 2009, 46, 379-387.	2.4	142
21	The Persistent Effects of Concussion on Neuroelectric Indices of Attention. <i>Journal of Neurotrauma</i> , 2009, 26, 1463-1470.	3.4	124
22	Neuroelectric and behavioral indices of interference control during acute cycling. <i>Clinical Neurophysiology</i> , 2007, 118, 570-580.	1.5	120
23	On the number of trials necessary for stabilization of error-related brain activity across the life span. <i>Psychophysiology</i> , 2010, 47, 767-73.	2.4	114
24	The association between mild traumatic brain injury history and cognitive control. <i>Neuropsychologia</i> , 2009, 47, 3210-3216.	1.6	110
25	The effects of single bouts of aerobic exercise, exergaming, and videogame play on cognitive control. <i>Clinical Neurophysiology</i> , 2011, 122, 1518-1525.	1.5	110
26	The Negative Association of Childhood Obesity to Cognitive Control of Action Monitoring. <i>Cerebral Cortex</i> , 2014, 24, 654-662.	2.9	110
27	The Acute Effects of Yoga on Executive Function. <i>Journal of Physical Activity and Health</i> , 2013, 10, 488-495.	2.0	105
28	Fitness and action monitoring: Evidence for improved cognitive flexibility in young adults. <i>Neuroscience</i> , 2008, 157, 319-328.	2.3	92
29	The association of childhood obesity to neuroelectric indices of inhibition. <i>Psychophysiology</i> , 2012, 49, 1361-1371.	2.4	85
30	The Role of Aerobic Fitness in Cortical Thickness and Mathematics Achievement in Preadolescent Children. <i>PLoS ONE</i> , 2015, 10, e0134115.	2.5	83
31	Reliability and Validity of Commercially Available Low-Cost Bioelectrical Impedance Analysis. <i>International Journal of Sport Nutrition and Exercise Metabolism</i> , 2019, 29, 406-410.	2.1	83
32	Maintenance of Cognitive Control during and after Walking in Preadolescent Children. <i>Medicine and Science in Sports and Exercise</i> , 2012, 44, 2017-2024.	0.4	81
33	White matter microstructure is associated with cognitive control in children. <i>Biological Psychology</i> , 2013, 94, 109-115.	2.2	75
34	Physical Fitness, Physical Activity, and the Executive Function in Children with Overweight and Obesity. <i>Journal of Pediatrics</i> , 2019, 208, 50-56.e1.	1.8	75
35	Muscular and Aerobic Fitness, Working Memory, and Academic Achievement in Children. <i>Medicine and Science in Sports and Exercise</i> , 2017, 49, 500-508.	0.4	66
36	Aerobic fitness and response variability in preadolescent children performing a cognitive control task.. <i>Neuropsychology</i> , 2011, 25, 333-341.	1.3	65

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37	A systematic review of physical activity and cardiorespiratory fitness on P3b. <i>Psychophysiology</i> , 2020, 57, e13425.	2.4	62
38	Single bouts of exercise selectively sustain attentional processes. <i>Psychophysiology</i> , 2015, 52, 618-625.	2.4	60
39	From ERPs to academics. <i>Developmental Cognitive Neuroscience</i> , 2012, 2, S90-S98.	4.0	59
40	Fit and vigilant: The relationship between poorer aerobic fitness and failures in sustained attention during preadolescence.. <i>Neuropsychology</i> , 2012, 26, 407-413.	1.3	56
41	Evaluating the efficacy of fully automated approaches for the selection of eyeblink ICA components. <i>Psychophysiology</i> , 2017, 54, 780-791.	2.4	51
42	Fitness, physical activity, working memory, and neuroelectric activity in children with overweight/obesity. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2019, 29, 1352-1363.	2.9	51
43	Physical activity and brain structure, brain function, and cognition in children and youth: A systematic review of randomized controlled trials. <i>Mental Health and Physical Activity</i> , 2019, 16, 105-127.	1.8	51
44	The sexual dimorphic association of cardiorespiratory fitness to working memory in children. <i>Developmental Science</i> , 2016, 19, 90-108.	2.4	45
45	Variability of ICA decomposition may impact EEG signals when used to remove eyeblink artifacts. <i>Psychophysiology</i> , 2017, 54, 386-398.	2.4	45
46	Aerobic fitness and intra-individual variability of neurocognition in preadolescent children. <i>Brain and Cognition</i> , 2013, 82, 43-57.	1.8	41
47	Neuroelectric indices of goal maintenance following a single bout of physical activity. <i>Biological Psychology</i> , 2012, 89, 528-531.	2.2	34
48	Impact of the FITKids Physical Activity Intervention on Adiposity in Prepubertal Children. <i>Pediatrics</i> , 2014, 133, e875-e883.	2.1	32
49	Health-related physical fitness, academic achievement, and neuroelectric measures in children and adolescents. <i>International Journal of Sport and Exercise Psychology</i> , 2019, 17, 117-132.	2.1	32
50	The Relation of ERP Indices of Exercise to Brain Health and Cognition. , 2012, , 419-446.		32
51	The association between a history of concussion and variability in behavioral and neuroelectric indices of cognition. <i>International Journal of Psychophysiology</i> , 2015, 98, 426-434.	1.0	31
52	The Relation of Mild Traumatic Brain Injury to Chronic Lapses of Attention. <i>Research Quarterly for Exercise and Sport</i> , 2012, 83, 553-559.	1.4	30
53	The relation of self-efficacy and error-related self-regulation. <i>International Journal of Psychophysiology</i> , 2011, 80, 1-10.	1.0	27
54	Obesity, Visceral Adipose Tissue, and Cognitive Function in Childhood. <i>Journal of Pediatrics</i> , 2017, 187, 134-140.e3.	1.8	27

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55	A Large-Scale Reanalysis of Childhood Fitness and Inhibitory Control. <i>Journal of Cognitive Enhancement: Towards the Integration of Theory and Practice</i> , 2018, 2, 170-192.	1.6	27
56	Fitness, physical activity, sedentary time, inhibitory control, and neuroelectric activity in children with overweight or obesity: The ActiveBrains project. <i>Psychophysiology</i> , 2020, 57, e13579.	2.4	27
57	Alterations in error-related brain activity and post-error behavior over time. <i>Brain and Cognition</i> , 2012, 80, 257-265.	1.8	26
58	V. THE DIFFERENTIAL ASSOCIATION OF ADIPOSITY AND FITNESS WITH COGNITIVE CONTROL IN PREADOLESCENT CHILDREN. <i>Monographs of the Society for Research in Child Development</i> , 2014, 79, 72-92.	6.8	26
59	Effects of the FITKids physical activity randomized controlled trial on conflict monitoring in youth. <i>Psychophysiology</i> , 2018, 55, e13017.	2.4	26
60	Self-efficacy effects on neuroelectric and behavioral indices of action monitoring in older adults. <i>Neurobiology of Aging</i> , 2008, 29, 1111-1122.	3.1	25
61	The Association between Physical Activity During the Day and Long-Term Memory Stability. <i>Scientific Reports</i> , 2016, 6, 38148.	3.3	25
62	Pupillometric indices of locus-coeruleus activation are not modulated following single bouts of exercise. <i>International Journal of Psychophysiology</i> , 2019, 140, 41-52.	1.0	22
63	VI. THE ROLE OF PHYSICAL ACTIVITY IN REDUCING BARRIERS TO LEARNING IN CHILDREN WITH DEVELOPMENTAL DISORDERS. <i>Monographs of the Society for Research in Child Development</i> , 2014, 79, 93-118.	6.8	19
64	Cerebral blood flow is not modulated following acute aerobic exercise in preadolescent children. <i>International Journal of Psychophysiology</i> , 2018, 134, 44-51.	1.0	19
65	Poorer aerobic fitness relates to reduced integrity of multiple memory systems. <i>Cognitive, Affective and Behavioral Neuroscience</i> , 2014, 14, 1132-1141.	2.0	18
66	Whole blood n-3 fatty acids are associated with executive function in 2-6-year-old Northern Ghanaian children. <i>Journal of Nutritional Biochemistry</i> , 2018, 57, 287-293.	4.2	18
67	Aerobic Fitness Is Associated With Cognitive Control Strategy in Preadolescent Children. <i>Journal of Motor Behavior</i> , 2017, 49, 150-162.	0.9	17
68	The relation of aerobic fitness to neuroelectric indices of cognitive and motor task preparation. <i>Psychophysiology</i> , 2010, 47, 814-21.	2.4	16
69	Preliminary evidence for differential trajectories of recovery for cognitive flexibility following sports-related concussion.. <i>Neuropsychology</i> , 2018, 32, 564-574.	1.3	16
70	Neuroelectric measurement of cognition during aerobic exercise. <i>Methods</i> , 2008, 45, 271-278.	3.8	14
71	Whole-blood fatty acids are associated with executive function in Tanzanian children aged 4-6 years: a cross-sectional study. <i>British Journal of Nutrition</i> , 2016, 116, 1537-1545.	2.3	14
72	Acute and protracted disruptions to inhibitory control following sports-related concussion. <i>Neuropsychologia</i> , 2019, 131, 223-232.	1.6	14

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73	Expertâ€™s Choice: 2018â€™s Most Exciting Research in the Field of Pediatric Exercise Science. <i>Pediatric Exercise Science</i> , 2019, 31, 1-27.	1.0	11
74	Aerobic Fitness and Inhibition in Young Children: Moderating Roles of ADHD Status and Age. <i>Journal of Clinical Child and Adolescent Psychology</i> , 2017, 46, 646-652.	3.4	9
75	The association between aerobic fitness and congruency sequence effects in preadolescent children. <i>Brain and Cognition</i> , 2017, 113, 85-92.	1.8	9
76	Greater childhood cardiorespiratory fitness is associated with better top-down cognitive control: A midfrontal theta oscillation study. <i>Psychophysiology</i> , 2020, 57, e13678.	2.4	8
77	Preschoolers exhibit greater on-task behavior following physically active lessons on the approximate number system. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2020, 30, 1777-1786.	2.9	7
78	Placebo controlled phase II clinical trial: Safety and efficacy of combining intranasal insulin & acute exercise. <i>Metabolic Brain Disease</i> , 2021, 36, 1289-1303.	2.9	7
79	The effect of acute exercise for reducing cognitive alterations associated with individuals high in anxiety. <i>International Journal of Psychophysiology</i> , 2021, 167, 47-56.	1.0	6
80	Does Walking Mitigate Affective and Cognitive Responses to Social Exclusion?. <i>Journal of Sport and Exercise Psychology</i> , 2017, 39, 97-108.	1.2	5
81	Physically active learning in preschoolers: Improved self-regulation, comparable quantity estimation. <i>Trends in Neuroscience and Education</i> , 2021, 22, 100150.	3.1	5
82	Meeting 24-hour movement behavior guidelines in young children: Improved quantity estimation and self-regulation. <i>Early Education and Development</i> , 2023, 34, 762-789.	2.6	5
83	Aerobic fitness relates to differential attentional but not language-related cognitive processes. <i>Brain and Language</i> , 2019, 198, 104681.	1.6	3
84	The role of BMI on cognition following acute physical activity in preadolescent children. <i>Trends in Neuroscience and Education</i> , 2020, 21, 100143.	3.1	3
85	Carbohydrate mouth rinse has no effects on behavioral or neuroelectric indices of cognition. <i>International Journal of Psychophysiology</i> , 2020, 151, 49-58.	1.0	3
86	Phasic activity of the locus-coeruleus is not a mediator of the relationship between fitness and inhibition in college-aged adults. <i>International Journal of Psychophysiology</i> , 2021, 165, 1-7.	1.0	3
87	Aerobic Exercise Training and Intra-individual Cognitive Variability in Older Adults. <i>Medicine and Science in Sports and Exercise</i> , 2008, 40, S364.	0.4	3
88	Paired cognitive flexibility task with symptom factors improves detection of sports-related concussion in high school and collegiate athletes. <i>Journal of the Neurological Sciences</i> , 2021, 428, 117575.	0.6	2
89	The Influence of Pitch-by-Pitch Feedback on Neural Activity and Pitch Perception in Baseball. <i>Journal of Sport and Exercise Psychology</i> , 2019, 41, 65-72.	1.2	1
90	Aerobic fitness relates to superior exact and approximate arithmetic processing in college-aged adults. <i>Trends in Neuroscience and Education</i> , 2021, 23, 100154.	3.1	1

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91	Aerobic fitness moderates girls' affective and working memory responses to social exclusion. <i>Psychology of Sport and Exercise</i> , 2021, 55, 101927.	2.1	1
92	Bi-stable perception as a bridge between vision and decision making. <i>Journal of Vision</i> , 2019, 19, 62.	0.3	0
93	Attention-Deficit/Hyperactivity Disorder-Related Self-Reported Symptoms Are Associated With Elevated Concussion Symptomatology. <i>Journal of Sport and Exercise Psychology</i> , 2022, 44, 116-126.	1.2	0
94	Physical activity and sleep moderate the relationship between stress and screen time in college-aged adults. <i>Journal of American College Health</i> , 0, , 1-11.	1.5	0
95	The Relation of Mild Traumatic Brain Injury to Chronic Lapses of Attention. <i>Research Quarterly for Exercise and Sport</i> , 2012, 83, 553-559.	1.4	0