

# Jairo Hidalgo Migueles

## List of Publications by Citations

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**Version:** 2024-04-28

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74  
papers

1,897  
citations

16  
h-index

42  
g-index

85  
ext. papers

2,960  
ext. citations

4.5  
avg. IF

5  
L-index

#	Paper	IF	Citations
74	Accelerometer Data Collection and Processing Criteria to Assess Physical Activity and Other Outcomes: A Systematic Review and Practical Considerations. <i>Sports Medicine</i> , <b>2017</b> , 47, 1821-1845	10.6	687
73	Role of Physical Activity and Sedentary Behavior in the Mental Health of Preschoolers, Children and Adolescents: A Systematic Review and Meta-Analysis. <i>Sports Medicine</i> , <b>2019</b> , 49, 1383-1410	10.6	247
72	GGIR: A Research Community-Driven Open Source R Package for Generating Physical Activity and Sleep Outcomes From Multi-Day Raw Accelerometer Data. <i>Journal for the Measurement of Physical Behaviour</i> , <b>2019</b> , 2, 188-196	2.3	134
71	A whole brain volumetric approach in overweight/obese children: Examining the association with different physical fitness components and academic performance. The ActiveBrains project. <i>NeuroImage</i> , <b>2017</b> , 159, 346-354	7.9	79
70	An exercise-based randomized controlled trial on brain, cognition, physical health and mental health in overweight/obese children (ActiveBrains project): Rationale, design and methods. <i>Contemporary Clinical Trials</i> , <b>2016</b> , 47, 315-24	2.3	59
69	Role of Physical Activity and Fitness in the Characterization and Prognosis of the Metabolically Healthy Obesity Phenotype: A Systematic Review and Meta-analysis. <i>Progress in Cardiovascular Diseases</i> , <b>2018</b> , 61, 190-205	8.5	46
68	Comparability of published cut-points for the assessment of physical activity: Implications for data harmonization. <i>Scandinavian Journal of Medicine and Science in Sports</i> , <b>2019</b> , 29, 566-574	4.6	45
67	Convergent validation of a questionnaire to assess the mode and frequency of commuting to and from school. <i>Scandinavian Journal of Public Health</i> , <b>2017</b> , 45, 612-620	3	42
66	Physical Fitness, Physical Activity, and the Executive Function in Children with Overweight and Obesity. <i>Journal of Pediatrics</i> , <b>2019</b> , 208, 50-56.e1	3.6	34
65	Physical fitness and psychological health in overweight/obese children: A cross-sectional study from the ActiveBrains project. <i>Journal of Science and Medicine in Sport</i> , <b>2018</b> , 21, 179-184	4.4	33
64	Fitness, physical activity, working memory, and neuroelectric activity in children with overweight/obesity. <i>Scandinavian Journal of Medicine and Science in Sports</i> , <b>2019</b> , 29, 1352-1363	4.6	29
63	A systematic review on biomechanical characteristics of walking in children and adolescents with overweight/obesity: Possible implications for the development of musculoskeletal disorders. <i>Obesity Reviews</i> , <b>2019</b> , 20, 1033-1044	10.6	28
62	Comparability of accelerometer signal aggregation metrics across placements and dominant wrist cut points for the assessment of physical activity in adults. <i>Scientific Reports</i> , <b>2019</b> , 9, 18235	4.9	25
61	Evaluation of the effect of <i>Lactobacillus reuteri</i> V3401 on biomarkers of inflammation, cardiovascular risk and liver steatosis in obese adults with metabolic syndrome: a randomized clinical trial (PROSIR). <i>BMC Complementary and Alternative Medicine</i> , <b>2018</b> , 18, 306	4.7	23
60	Fitness, cortical thickness and surface area in overweight/obese children: The mediating role of body composition and relationship with intelligence. <i>NeuroImage</i> , <b>2019</b> , 186, 771-781	7.9	22
59	Fitness, physical activity and academic achievement in overweight/obese children. <i>Journal of Sports Sciences</i> , <b>2020</b> , 38, 731-740	3.6	16
58	Exercise training improves sleep quality: A randomized controlled trial. <i>European Journal of Clinical Investigation</i> , <b>2020</b> , 50, e13202	4.6	16

57	A Smartphone App to Promote Healthy Weight Gain, Diet, and Physical Activity During Pregnancy (HealthyMoms): Protocol for a Randomized Controlled Trial. <i>JMIR Research Protocols</i> , <b>2019</b> , 8, e13011	2	16
56	Evaluation of the wrist-worn ActiGraph wGT3x-BT for estimating activity energy expenditure in preschool children. <i>European Journal of Clinical Nutrition</i> , <b>2017</b> , 71, 1212-1217	5.2	15
55	GRANADA consensus on analytical approaches to assess associations with accelerometer-determined physical behaviours (physical activity, sedentary behaviour and sleep) in epidemiological studies. <i>British Journal of Sports Medicine</i> , <b>2021</b> ,	10.3	15
54	Fitness, physical activity, sedentary time, inhibitory control, and neuroelectric activity in children with overweight or obesity: The ActiveBrains project. <i>Psychophysiology</i> , <b>2020</b> , 57, e13579	4.1	14
53	Impact of Using Different Levels of Threshold-Based Artefact Correction on the Quantification of Heart Rate Variability in Three Independent Human Cohorts. <i>Journal of Clinical Medicine</i> , <b>2020</b> , 9,	5.1	13
52	Twenty four-hour activity cycle in older adults using wrist-worn accelerometers: The seniors-ENRICA-2 study. <i>Scandinavian Journal of Medicine and Science in Sports</i> , <b>2020</b> , 30, 700-708	4.6	13
51	Sedentarism, Physical Activity, Steps, and Neurotrophic Factors in Obese Children. <i>Medicine and Science in Sports and Exercise</i> , <b>2019</b> , 51, 2325-2333	1.2	13
50	Fatness and fitness in relation to functional movement quality in overweight and obese children. <i>Journal of Sports Sciences</i> , <b>2019</b> , 37, 878-885	3.6	13
49	Association of Objectively Measured Physical Activity With Brown Adipose Tissue Volume and Activity in Young Adults. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2019</b> , 104, 223-233	5.6	13
48	Associations between objectively measured and self-reported sleep with academic and cognitive performance in adolescents: DADOS study. <i>Journal of Sleep Research</i> , <b>2019</b> , 28, e12811	5.8	12
47	Inter- and intra-researcher reproducibility of heart rate variability parameters in three human cohorts. <i>Scientific Reports</i> , <b>2020</b> , 10, 11399	4.9	10
46	Effectiveness of a Smartphone App to Promote Healthy Weight Gain, Diet, and Physical Activity During Pregnancy (HealthyMoms): Randomized Controlled Trial. <i>JMIR MHealth and UHealth</i> , <b>2021</b> , 9, e26091	5.5	10
45	Association of sedentary and physical activity time with maximal fat oxidation during exercise in sedentary adults. <i>Scandinavian Journal of Medicine and Science in Sports</i> , <b>2020</b> , 30, 1605-1614	4.6	8
44	Accelerometer Data Processing and Energy Expenditure Estimation in Preschoolers. <i>Medicine and Science in Sports and Exercise</i> , <b>2019</b> , 51, 590-598	1.2	8
43	Association of Physical Activity, Sedentary Behavior, and Sleep With Unhealthy Aging: Consistent Results for Device-Measured and Self-reported Behaviors Using Isotemporal Substitution Models. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2021</b> , 76, 85-94	6.4	8
42	Sleep duration and quality are not associated with brown adipose tissue volume or activity-as determined by 18F-FDG uptake, in young, sedentary adults. <i>Sleep</i> , <b>2019</b> , 42,	1.1	7
41	Gender influences physical activity changes during adolescence: The HELENA study. <i>Clinical Nutrition</i> , <b>2019</b> , 38, 2900-2905	5.9	7
40	Associations of Objectively-Assessed Physical Activity and Sedentary Time with Hippocampal Gray Matter Volume in Children with Overweight/Obesity. <i>Journal of Clinical Medicine</i> , <b>2020</b> , 9,	5.1	7

39	Association of Sedentary Behavior with Brain Structure and Intelligence in Children with Overweight or Obesity: The ActiveBrains Project. <i>Journal of Clinical Medicine</i> , <b>2020</b> , 9,	5.1	7
38	The Role of Heart Rate on the Associations Between Body Composition and Heart Rate Variability in Children With Overweight/Obesity: The ActiveBrains Project. <i>Frontiers in Physiology</i> , <b>2019</b> , 10, 895	4.6	7
37	Do fitter kids have bigger brains?. <i>Scandinavian Journal of Medicine and Science in Sports</i> , <b>2020</b> , 30, 2498-2502	4.5	7
36	Effects of Exercise on Body Posture, Functional Movement, and Physical Fitness in Children With Overweight/Obesity. <i>Journal of Strength and Conditioning Research</i> , <b>2020</b> , 34, 2146-2155	3.2	7
35	Feasibility and reliability of the Spanish version of the Youth Activity Profile questionnaire (YAP-Spain) in children and adolescents. <i>Journal of Sports Sciences</i> , <b>2021</b> , 39, 801-807	3.6	7
34	Maternal physical activity and sedentary behaviour before and during in vitro fertilization treatment: a longitudinal study exploring the associations with controlled ovarian stimulation and pregnancy outcomes. <i>Journal of Assisted Reproduction and Genetics</i> , <b>2020</b> , 37, 1869-1881	3.4	6
33	Associations of physical activity and fitness with hepatic steatosis, liver enzymes, and insulin resistance in children with overweight/obesity. <i>Pediatric Diabetes</i> , <b>2020</b> , 21, 565-574	3.6	6
32	Study protocol and rationale of the "Cogni-action project" a cross-sectional and randomized controlled trial about physical activity, brain health, cognition, and educational achievement in schoolchildren. <i>BMC Pediatrics</i> , <b>2019</b> , 19, 260	2.6	6
31	Effects of Exercise on Plantar Pressure during Walking in Children with Overweight/Obesity. <i>Medicine and Science in Sports and Exercise</i> , <b>2020</b> , 52, 654-662	1.2	6
30	Associations of dietary energy density with body composition and cardiometabolic risk in children with overweight and obesity: role of energy density calculations, under-reporting energy intake and physical activity. <i>British Journal of Nutrition</i> , <b>2019</b> , 121, 1057-1068	3.6	5
29	Influence of meteorological conditions on physical activity in adolescents. <i>Journal of Epidemiology and Community Health</i> , <b>2020</b> , 74, 395-400	5.1	5
28	Differences in Brain Volume between Metabolically Healthy and Unhealthy Overweight and Obese Children: The Role of Fitness. <i>Journal of Clinical Medicine</i> , <b>2020</b> , 9,	5.1	5
27	Physical Activity, Sedentary Behavior, and White Matter Microstructure in Children with Overweight or Obesity. <i>Medicine and Science in Sports and Exercise</i> , <b>2020</b> , 52, 1218-1226	1.2	5
26	Healthier Minds in Fitter Bodies: A Systematic Review and Meta-Analysis of the Association between Physical Fitness and Mental Health in Youth. <i>Sports Medicine</i> , <b>2021</b> , 51, 2571-2605	10.6	5
25	The role of heart rate in the assessment of cardiac autonomic modulation with heart rate variability. <i>Clinical Research in Cardiology</i> , <b>2019</b> , 108, 1408-1409	6.1	4
24	Interpretation of associations between the accelerometry physical activity spectrum and cardiometabolic health and locomotor skills in two cohorts of children using raw, normalized, log-transformed, or compositional data. <i>Journal of Sports Sciences</i> , <b>2020</b> , 38, 2708-2719	3.6	4
23	Calibration and Cross-Validation of Accelerometer Cut-Points to Classify Sedentary Time and Physical Activity from Hip and Non-Dominant and Dominant Wrists in Older Adults. <i>Sensors</i> , <b>2021</b> , 21,	3.8	4
22	Heart Rate Is a Better Predictor of Cardiorespiratory Fitness Than Heart Rate Variability in Overweight/Obese Children: The ActiveBrains Project. <i>Frontiers in Physiology</i> , <b>2019</b> , 10, 510	4.6	3

21	Validity of Slaughter Equations and Bioelectrical Impedance Against Dual-Energy X-Ray Absorptiometry in Children. <i>Obesity</i> , <b>2020</b> , 28, 803-812	8	3
20	Associations of Sedentary Behaviour, Physical Activity, Cardiorespiratory Fitness and Body Composition with Risk of Sleep-Related Breathing Disorders in Children with Overweight/Obesity: A Cross-Sectional Study. <i>Journal of Clinical Medicine</i> , <b>2020</b> , 9,	5.1	3
19	Hip and wrist accelerometers showed consistent associations with fitness and fatness in children aged 8-12 years. <i>Acta Paediatrica, International Journal of Paediatrics</i> , <b>2020</b> , 109, 995-1003	3.1	3
18	Muscular Fitness Mediates the Association between 25-Hydroxyvitamin D and Areal Bone Mineral Density in Children with Overweight/Obesity. <i>Nutrients</i> , <b>2019</b> , 11,	6.7	3
17	Associations of sleep with gray matter volume and their implications for academic achievement, executive function and intelligence in children with overweight/obesity. <i>Pediatric Obesity</i> , <b>2021</b> , 16, e12707	4.6	3
16	Early life factors, gray matter brain volume and academic performance in overweight/obese children: The ActiveBrains project. <i>NeuroImage</i> , <b>2019</b> , 202, 116130	7.9	2
15	Critique of: "Physical Activity Assessment Between Consumer- and Research-Grade Accelerometers: A Comparative Study in Free-Living Conditions". <i>JMIR MHealth and UHealth</i> , <b>2017</b> , 5, e15	5.5	2
14	Differences in areal bone mineral density between metabolically healthy and unhealthy overweight/obese children: the role of physical activity and cardiorespiratory fitness. <i>Pediatric Research</i> , <b>2020</b> , 87, 1219-1225	3.2	2
13	Deciphering the constrained total energy expenditure model in humans by associating accelerometer-measured physical activity from wrist and hip. <i>Scientific Reports</i> , <b>2021</b> , 11, 12302	4.9	2
12	Activity-rest circadian pattern and academic achievement, executive function, and intelligence in children with obesity. <i>Scandinavian Journal of Medicine and Science in Sports</i> , <b>2021</b> , 31, 653-664	4.6	2
11	Physical fitness and brain source localization during a working memory task in children with overweight/obesity: The ActiveBrains project. <i>Developmental Science</i> , <b>2021</b> , 24, e13048	4.5	1
10	Revisiting the association of sedentary behavior and physical activity with all-cause mortality using a compositional approach: the Women's Health Study. <i>International Journal of Behavioral Nutrition and Physical Activity</i> , <b>2021</b> , 18, 104	8.4	1
9	Revisiting the cross-sectional and prospective association of physical activity with body composition and physical fitness in preschoolers: A compositional data approach.. <i>Pediatric Obesity</i> , <b>2022</b> , e12909	4.6	1
8	The effects of a lifestyle intervention (the HealthyMoms app) during pregnancy on infant body composition: Secondary outcome analysis from a randomized controlled trial.. <i>Pediatric Obesity</i> , <b>2022</b> , e12894	4.6	0
7	Does sleep-disordered breathing add to impairments in academic performance and brain structure usually observed in children with overweight/obesity?. <i>European Journal of Pediatrics</i> , <b>2022</b> , 1	4.1	0
6	Step-Based Metrics and Overall Physical Activity in Children With Overweight or Obesity: Cross-Sectional Study. <i>JMIR MHealth and UHealth</i> , <b>2020</b> , 8, e14841	5.5	0
5	Associations of Mediterranean diet with psychological ill-being and well-being throughout the pregnancy course: The GESTAFIT project.. <i>Quality of Life Research</i> , <b>2022</b> , 1	3.7	0
4	Physical Fitness Components And Cortical And Subcortical Brain Volume In Overweight/obese Children. <i>Medicine and Science in Sports and Exercise</i> , <b>2017</b> , 49, 514	1.2	

3	Blood Flow-Restricted Training in Older Adults: A Narrative Review. <i>Journal of Science in Sport and Exercise</i> , <b>2020</b> , 2, 25-37	1
2	Higher Physical Activity Is Related to Lower Neck Adiposity in Young Men, but to Higher Neck Adiposity in Young Women: An Exploratory Study. <i>International Journal of Sport Nutrition and Exercise Metabolism</i> , <b>2021</b> , 31, 250-258	4-4
1	Equivalency of four research-grade movement sensors to assess movement behaviors and its implications for population surveillance.. <i>Scientific Reports</i> , <b>2022</b> , 12, 5525	4-9