

Short CURRICULUM VITAE

Gaspare Pavei

University education

January 2022 – present: Research Fellow (RTD-B) in physiology and biomechanics of locomotion at the University of Milan.

January 2020 – December 2021: Research Fellow (RTD-A) in physiology and biomechanics of locomotion at the University of Milan.

February 2018 – December 2019: Post Doctoral position in physiology and biomechanics of locomotion at the University of Milan. Supervisor: Prof. A.E. Minetti.

May 2017 – October 2017: Scientific collaborator in physiology and biomechanics of locomotion at the University of Milan. Supervisor: Prof. A.E. Minetti.

March 2015 – February 2017: Post Doctoral position in physiology and biomechanics of locomotion at the University of Milan. Supervisor: Prof. A.E. Minetti.

November 2011 – November 2014: Winner of PhD scholarship and Full Time PhD student in Human Physiology at the University of Milan. Thesis: “The effects of gravity on human locomotion repertoire: Cost of transport & body centre of mass analysis”. Supervisor: Prof. A.E. Minetti.

November 2009 – July 2011: Master degree in Science, Technique and Didactics of Sport at the University of Milan.

August 2008 – January 2009: Erasmus at the Norges Teknisk-Naturvitenskapelige Universitet (NTNU) in Trondheim (Norway).

October 2006 – October 2009: Bachelor degree in Sport Science at the University of Verona.

Awards

- ECSS Young Investigators Award winner for oral presentation in Bruges 2012.
- European Society of Biomechanics WCB-2014 Travel Awards.
- CONI (Italian National Olympic Committee) Research Award ‘Premio Alberto Madella’ 2015
- SISMES (Italian Society of Sports Science) Young Investigators Award 2018
- SIAMOC (Italian Society of Gait Analysis in Clinical setting) Best Methodological Paper 2019

Publications

43 papers on international journals with impact factor

5 papers on international journals without impact factor

(selection)

P.E. di Prampero, C. Osgnach, J.B. Morin, P. Zamparo P, G. Pavei (2023). Mechanical and Metabolic Power in Accelerated Running-PART I: the 100-m dash. *European Journal of Applied Physiology*, 123: 2473 - 2481. doi: 10.1007/s00421-023-05236-x.

F. Luciano, L. Ruggiero, A.E. Minetti and G. Pavei (2022). Comparison of three-dimensional body centre of mass trajectories during locomotion through zero and one-dimensional statistics. *Scientific Reports* 12:1777.

L. Rasica, S. Porcelli, A.E. Minetti and G. Pavei (2020) Biomechanical and metabolic aspects of backward (and forward) running on uphill gradients: another clue towards an almost inelastic rebound. *European Journal of Applied Physiology*. 120: 2507 – 2515

A.E. Minetti, A.P. Moorhead and G. Pavei (2020). Frictional internal work of damped limbs oscillation in human locomotion. *Proceedings of the Royal Society B*. 287: 20201410.

G. Pavei, F. Salis, A. Cereatti and E. Bergamini (2020). Body center of mass trajectory and mechanical energy using inertial sensors: a feasible stride? *Gait & Posture*. 80: 199 – 205.

G. Pavei, P. Zamparo, N. Fujii, T. Otsu, N. Numazu, A.E. Minetti and A. Monte (2019). Comprehensive mechanical power analysis in sprint running acceleration. *Scandinavian Journal of Medicine and Science in Sports*. 29: 1892 – 1900.

A.E. Minetti and G. Pavei (2018). Update and extension of the 'Equivalent Slope' of speed changing level locomotion in humans: a computational model for shuttle running. *Journal of Experimental Biology*. 221 jeb.182303.

G. Pavei, E. Seminati, D. Cazzola and A.E. Minetti (2017). On the Estimation Accuracy of the 3D Body Center of Mass Trajectory during Human Locomotion: Inverse vs. Forward Dynamics. *Frontiers in Physiology*, 8: 129.

G. Pavei and A.E. Minetti (2016). Hopping locomotion at different gravity: metabolism and mechanics in humans. *Journal of Applied Physiology*, 120:1223 – 1229.

G. Pavei, C.M. Biancardi and A.E. Minetti (2015). Skipping vs. running as the bipedal gait of choice in hypogravity. *Journal of Applied Physiology*. 119: 93 – 100.

G. Pavei, D. Cazzola, A. La Torre and A.E. Minetti (2014). The biomechanics of race walking: Literature overview and new insights. *European Journal of Sport Science*. 14: 661 – 670.

A.E. Minetti, G. Pavei and C.M. Biancardi (2012). The energetics and mechanics of level and gradient skipping: preliminary results for a potential gait of choice in low gravity environments. *Planetary and Space Science*. 74: 142 – 145.

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