CV

Photo	
Personal Details	
Name	Nikolaos Stergiou
Academic Position	Professor
Scientific Field	Biomechanics and Human Movement Variability
Section	Human Performance
Laboratory	Biomechanics
Administrative post	
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Student consultation	Monday and Wenday 10:00 – 12:00 or appointment via email
Academic Degrees	
Undergraduate degrees	Aristotle University of Thessaloniki, Thessaloniki, Greece Exercise Science and Physical Education (1989)
Masters	University of Nebraska Omaha, Omaha, Nebraska Concentration: Exercise Science (1991)
PhD	University of Oregon, Eugene, Oregon Concentration: Biomechanics (1995)
University Teaching	

Undergraduate	Biomechanics (229)
Postgraduate	Advanced Biomechanics (KME14)
Research Interest	
Academic Interest	Biomechanics, Human Movement Variability
BOOKS	1) Stergiou, N. (2020). Biomechanics and Gait Analysis. Academic Press – Elsevier. a. NOTE: Translated in Greek by Konstadaras Publishing Company (2023). 2) Stergiou, N. (2019). Advice for the Novice Investigator: Examples Taken from Movement Sciences. CRC Press, Taylor & Francis Group. 3) Stergiou N. (2017). Nonlinear Analysis for Human Movement Variability. CRC Press, Taylor & Francis Group. 4) Stergiou N. (2004). Innovative Analyses of Human Movement. Champaign, IL: Human Kinetics Publishers.
Selected Publications	1) Kelty-Stephen DG, Kiyono K, Stergiou N, Mangalam M. (2024). Spatial variability and directional shifts in postural control in Parkinson's disease. Clin Park Relat Disord. Apr 7;10:100249. 2) Faria A, Sousa T, Vaz JR, Gabriel R, Gama J, Stergiou N. (2024). Females Present Reduced Minimum Toe Clearance During Walking as Compared to Males in Active Older Adults. J Gerontol A Biol Sci Med Sci. 2024 Jul 1;79(7):glae109. 3) Wiles TM, Kim SK, Stergiou N, Likens AD. (2024). Pattern analysis using lower body human walking data to identify the gaitprint. Comput Struct Biotechnol J. Apr 12;24:281-291. 4) Mangalam M, Kelty-Stephen DG, Seleznov I, Popov A, Likens AD, Kiyono K, Stergiou N. (2024). Older adults and individuals with Parkinson's disease control posture along suborthogonal directions that deviate from the traditional anteroposterior and mediolateral directions. Sci Rep. Feb 19;14(1):4117. 5) Vaz JR, Cortes N, Gomes JS, Jordão S, Stergiou N. (2024). Stride-to-stride fluctuations and temporal patterns of muscle activity exhibit similar responses during walking to variable visual cues. J Biomech. Feb;164:111972. 6) Vaz JR, Cortes N, Gomes JS, Reis JF, Stergiou N. (2024). Stride-to-stride variability is altered when running to isochronous visual cueing but remains unaltered with fractal cueing. Sports Biomech. Jan 2:1-13. 7) Brink KJ, Likens AD, Stergiou N. (2024). The evolution of scholarship of Biomechanics and Motor Control within the Academy: the Past, the Present, and the Future. Kinesiology Review. 13(1): 42-54. 8) Hinton EH, Buffum R, Kingston D, Stergiou N, Kesar T, Bierner S, Knarr BA. (2024). Real-Time Visual Kinematic Feedback During Overground Walking Improves Gait Biomechanics in Individuals Post-Stroke. Ann Biomed Eng. Feb;52(2):355-363.

	9) Wilson TJ, Mangalam M, Stergiou N, Likens AD. (2023). Multifractality in stride-to-stride variations reveals that walking involves more movement tuning and adjusting than running. Front Netw Physiol. Oct 19;3:1294545. 10) Jordão S, Stergiou N, Brandão R, Pezarat-Correia P, Oliveira R, Cortes N, Vaz JR. (2023). Muscle activity variability patterns and stride to stride fluctuations of older adults are positively correlated during walking. Sci Rep. Nov 25;13(1):20721.
Current research projects	
Reviewer in peer reviewed scientific journals	Science Translational Medicine, Annals of Biomedical Engineering, Fluctuation and Noise Letters, International Journal of Bifurcation and Chaos, Computers in Biology and Medicine, Experimental Brain Research, Gait and Posture, Human Movement Science, Journal for the Royal Society Interface, Neuroscience, Journal of Neurophysiology, Plos One, Neuroscience Letters, Journal of Sports Sciences, European Journal of Applied Physiology, IEEE Transactions on Biomedical Engineering, Journal of Gerontology: Psychological Sciences, Journal of Biomechanics, Ergonomics, Knee Surgery Sports Traumatology Arthroscopy, Clinical Biomechanics, Archives of Physical Medicine and Rehabilitation, Footwear Science, Frontiers Physiology, Journal of Applied Biomechanics, Journal of Motor Behavior, Journal of Neuroengineering and Rehabilitation, Nature Reviews, Sports Medicine, Medical Engineering & Physics, Motor Control, Obesity, Physical Therapy, Transactions on Occupational Ergonomics and Human Factors, Behavior Research Methods, Experimental Aging Research, Journal of Biomedical Engineering, Journal of Sports Science & Medicine, Simulation in Healthcare, Applied Ergonomics, Journal of Athletic Training, Journal of Neurologic Physical Therapy, Journal of Sports Medicine and Physical Fitness, Medicine & Science in Sports & Exercise, Sports Biomechanics, Clinical Anatomy, Experimental Neurology, International Journal of Sport Psychology, Journal of Theoretical Biology, Medical and Biological Engineering and Computing, Child Development, Complexity, International SportMed Journal, Research Quarterly for Exercise and Science, British Journal of Sports Medicine, International Journal of Medical Sciences, Behavioral Brain Research, Entropy, Somatosensory & Motor Research, Ophthalmology.
Citations	11554
h-index Scopus	52