uropass Boria Martinez Gonzalez Curriculum Vitae **BORJA MARTINEZ GONZALEZ** PERSONAL INFORMATION WORK EXPERIENCE Adjunct Professor February 2022 - Present Department of Sciences for Quality of Life. University of Bologna (Italy) · Module taught: "Advanced strength training and conditioning for health and performance June 2021 - Present Research Fellow Department of Biomedical and Neuromotor Sciences. University of Bologna (Italy) <u>Research project</u>: "Strategies to improve endurance performance" **Research Associate** September 2019 - March 2020 School of Sport and Exercise Sciences. University of Kent (UK) · Research project: "Brain endurance training to improve multitasking performance and resistance to fatigue in soldiers: a randomised pilot study **Online Teaching Assistant** April 2019 - April 2020 April 2017 - June 2017 School of Sport and Exercise Sciences. University of Kent (UK) Mentoring, troubleshooting, and fielding student questions for The Science of Endurance Training and Performance' Massive Open Online Course Coach and Sport Science Consultant August 2018 - Present Drone Hopper -- Androni Giocattoli UCI Pro Cycling Team Training monitoring and performance assessment. Performance related scientific support. February 2017 - August 2021 Student Ambassador School of Sport and Exercise Sciences. University of Kent (UK) Run laboratory-based workshop of sport science concepts. Supervised research projects for a university program involving sixth form and college students across Kent and Medway September 2016 – August 2019 Graduate Teaching Assistant School of Sport and Exercise Sciences. University of Kent (UK) Organise and lead seminars for the following modules: Functional Anatomy and Biormechanics; Sport and Exercise Physiology; and Human Physiology Sport Scientist September 2016 - August 2019 Sport Performance Clinic, University of Kent (UK) Responsible for carrying out physiological tests to a wide range of athletes. Supervise and perform several training sessions and tests in an environmental chamber at high altitude and extreme conditions of temperature and humidity

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Job-related skills	 Due to my experience carrying out physiological tests to athletes and conducting research, I have used a wide variety of cycle ergometers (e.g., Cyclus2, Lode Excalibur Sport, Lode Corival, SRM Ergometer, Velotron, Cosmed E1, Monark 894E, Wattbike Trainer/Pro) and treadmills (e.g., h/p/cosmos Pulsar 3p, Satum, and Quasar med, Woodway ELG and Split-Belt). I have used Microgate Optogait for gait analysis
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- I am familiar with the use of several metabolic carts, including laboratory-based (e.g., Cortex Metalyzer 3B), and portable versions (e.g., Cortex Metamax 3B, Cosmed Fitmate PRO)
- I have conducted Lactate Threshold Tests using Biosen C-Line Glucose & Lactate Analyser. I have also used portable analysers in the field (e.g., Lactate Scout+, Lactate Pro)
- I collected heart rate response using various equipment (e.g., Polar T31 and H7 bands, Polar FT1 and V800 monitors, Garmin HRM-dual ANT+ band)
- IBM SPSS is my preferred software package for statistical analysis. But I have also performed Bayesian analysis using JASP. I am familiar with software for behavioural research (E-Prime), scientific graphing and data analysis (SigmaPlot), and CPET (Cortex Meta Control 3000)

ADDITIONAL INFORMATION

Publications

- Toffoli, G., Martinez-Gonzalez, B., & Marcora, S.M. (2022). Commentary on Viewpoint: Using <u>Vo2max as a marker of training status in athletes – can we do better?</u>, *Journal of Applied Physiology*, 133(1) 161
- Leo, P., Giorgi, A., Spragg, J., Gonzalez, B. M., & Mujika, I. (2022). Impact of prior accumulated work and intensity on power output in elite/international level road cyclists—a pilot study. German Journal of Exercise and Sport Research
- Gattoni, C., Martinez-Gonzalez, B., Wu, L., Ling, L., & Marcora, S. M. (2022). <u>Assessing coanitive-motor interference in military settings: validity and reliability of two dual-tasking tests</u>. Proceedings of the NATO Symposium: Applying Neuroscience to Performance: From Rehabilitation to Human Cognitive Augmentation
- Giorgi, A., Martinez-Gonzalez, B., & Leo, P. (2021). The influence of prior accumulated fatigue on power output in professional cyclists. *Journal of Science and Cycling*, 10(2)
- Carswell, A.T., Howland, K., Martinez-Gonzalez, B., Baron, P. and Davison, G. (2020). <u>The effect of caffeine on cognitive performance is influenced by CYP1A2 but not ADORA2A genotype, vet neither genotype affects exercise performance in healthy adults</u>. *European Journal of Applied Physiology*, *120*(7), 1495-1508
- Scott, S.N., Fontana, F.Y., Martinez-Gonzalez, B., Hayes, C.A., Lagrou, P.H., Marcora, S., Zueger, T. and Stettler, C. (2020). 44-LB: Training Load and Time-in-Range Affect Sleep Time of Professional Cyclists with Type 1 Diabetes. Diabetes Jun 2020, 69 (Supplement 1)
- Giorgi, A., Vicini, M., Martinez-Gonzalez, B. and Gatterer, H. (2020). <u>Can regional bioimpedance</u> vector analysis highlights functional asymmetry in the legs of professional cyclists *Journal of Science* and Cycling, 9(2), 49-52
- Martinez-Gonzalez, B., Giorgi, A., Hopker, J.G., and Marcora S.M. (2019). The sleep of professional cyclists during a 5-day UCI Europe Tour road cycling race. *Journal of Science and Cycling*, 8(2), 20-22
- Giorgi, A., Martinez, B., Vicini., M. and Hopker J. (2019). <u>Relationship between daily Bioimpendance</u> patterns and training load of professional cyclists during training and racing Journal of Science and Cycling, 8(2), 43-44

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Conferences

- June 2022: SINTEC Summer School. Smart Biolelectronic and Wearable Systems, Castione della Presolana (Italy)
- October 2021: 12th National Congress of the Italian Society of Sport and Exercise Sciences (SISMES), Padova (Italy). "Cognitive-motor interference assessment in military personnel: validity and reliability of two dual-task tests", Oral presentation
- <u>February 2020</u>: 5th International Congress on Soldiers' Physical Performance, Quebec (Canada).
 "The effects of caffeine on running performance after one night of total sleep deprivation". Poster
- February 2019: Behavioural and Social Science Research in Extreme and Adventurous Settings Conference, Manchester (UK). "Sleep patterns during a winter mountain ultra-marathon". Oral Presentation
- December 2018: Sleep and Circadian Rhythms Conference, The Physiological Society, London (UK). "Sleep during a mountain ultra-marathon: A case study", Poster
- March 2016: The British Association of Sport and Exercise Sciences Student Conference, Bangor (UK), "Pacing strategy does not influence cerebral oxygenation during running". Oral Presentation

Scientific Memberships

The British Sleep Society

The British Association of Sport and Exercise Sciences

The Physiological Society