

Riccardo Borzuola

WORK EXPERIENCE

09/2011 - 10/2011 Perugia, Italy

BINDERY OPERATOR LEGATORIA SENSI

Address Perugia, Italy

04/2014 - 06/2014 Perugia, Italy

ARCHIVE MANAGER UNIVERSITÀ DEGLI STUDI DI PERUGIA

Address perugia, Italy

01/09/2014 - 03/03/2015 Perugia, Italy

MAIL CLERK POSTE ITALIANE

Address Perugia, Italy

01/09/2016 - 01/03/2017 Boulder, CO, United States

TRAINEESHIP - RICERCATORE IN BIOMECCANICA APPLICATA UNIVERSITY OF COLORADO BOULDER - DEPARTMENT OF INTEGRATIVE PHYSIOLOGY

Research, development and design of a passive exoskeleton for rehabilitation **Address** Boulder, CO, United States

01/05/2019 - 01/08/2019 Cardiff, United Kingdom

ASSISTANT RESEARCHER IN UNIVERSITY CARDIFF METROPOLITAN UNIVERSITY - CYNCOED CAMPUS

01/10/2020 - CURRENT Roma, Italy

UNIVERSITY LECTURER UNIVERSITÀ DEGLI STUDI DI ROMA "NICCOLÒ CUSANO"

Lecturer of the course of "Biomechanics" - BD in Sport Science

EDUCATION AND TRAINING

01/09/2005 - 10/06/2010 Perugia, Italy

DIPLOMA DI LICEO SCIENTIFICO Liceo Scientifico Statale "Galileo Galilei"

Address Perugia, Italy

20/09/2011 - 11/03/2015 Perugia, Italy

BACHELOR'S DEGREE IN SPORT SCIENCE Università degli Studi di Perugia

Address Perugia, Italy | Field of study Health and welfare | Final grade 110/110 e lode |

Thesis Sistemi di adattamento del circolo cardiaco all'attività sportiva

02/10/2015 - 15/04/2018 Köln, Germany

MASTER'S DEGREE IN HUMAN TECHNOLOGY IN SPORTS AND MEDICINE Deutsche Sporthochschule Köln

Address Köln, Germany | Field of study Biomechanics of Human Movement | Final grade 1.5 - sehr gut/excellent |

Thesis The Impact of Whole-body Vibrations on the Physiological and Dynamic Response During Cycling

01/11/2018 - 27/04/2022 Roma, Italy

PHD IN HUMAN MOVEMENT AND SPORT SCIENCES Università degli Studi di Roma "Foro Italico"

Address Piazza Lauro De Bosis, 15 , Roma, Italy | Field of study Bioingegneria e Neuromeccanica del Movimento

Final grade Eccellente | Thesis Neurophysiological mechanisms underlying Neuromuscular electrical stimulation

LANGUAGE SKILLS

Mother tongue(s): ITALIAN

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production Spoken interaction		
ENGLISH	C2	C2	C2	C2	C2
SPANISH	B2	B2	B2	B2	B2
GERMAN	A2	A2	A2	A2	A2
FRENCH	B1	B1	A2	A2	A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

MS Office (MS Word, MS Excel, MS Outlook, MS PowerPoint, MS Access, MS OneNote, MS Visio, MS Teams) | MATLAB - MathWorks - MATLAB & Simulink | linguaggi di programmazione Python | IBM SPSS - IBM Analytics | GraphPad Prism, GraphPad Software Inc. | OTBioLab+ | GPOWER | Brain Vision Analyzer | Vicon Nexus | BTS Smart Analyzer | Adobe (Adobe Photoshop, Adobe Lightroom, Adobe Premiere, Adobe Bridge, Adobe)

ADDITIONAL INFORMATION

PUBLICATIONS

Borzuola, R., Viellehner J., Potthast, W. (2018). The Impact of Whole-body Vibrations on the Physiological and Dynamic Response During Cycling. Deutsche Sporthochschule Köln publikationenn 2018.

- 2018

Borzuola, R., Giombini, A., Torre, G., Campi, S., Albo, E., Bravi, M., Borrione, P., Fossati, C., & Macaluso, A. (2020). Central and Peripheral Neuromuscular Adaptations to Ageing. Journal of Clinical Medicine, 9(3), 741

– 2020

Borzuola, R., Labanca, L., Macaluso, A., & Laudani, L. (2020). Modulation of spinal excitability following neuromuscular electrical stimulation superimposed to voluntary contraction. European Journal of Applied Physiology, 120(9), 2105–2113.

- 2020

Etenzi, E., Borzuola, R., & Grabowski, A. M. (2020). Passive-elastic knee-ankle exoskeleton reduces the metabolic cost of walking. Journal of NeuroEngineering and Rehabilitation, 17(1), 104.

- 2020

Papalia, R., Ciuffreda, M., Albo, A. M., Fossati, C., Macaluso, A., Borzuola, R., De Vincentis, A., & Denaro, V. (2020). Return to Sport after Anatomic and Reverse Total Shoulder Arthroplasty in Elderly Patients: A Systematic Review and Meta-Analysis. Journal of Clinical Medicine, 9(5), 1576.

- 2020

<u>Castaldi, G. M., Borzuola, R., Camomilla, V., Bergamini, E., Vannozzi, G., & Macaluso, A. (2022). Biomechanics of the Hammer Throw: Narrative Review. Frontiers in sports and active living, 4, 853536.</u>

- 2022

Borzuola, R., Laudani, L., Labanca, L., & Macaluso, A. (2022). Superimposing neuromuscular electrical stimulation onto voluntary contractions to improve muscle strength and mass: A systematic review. European journal of sport science, 1–13. Advance online publication.

- 2022

DRIVING LICENCE

Driving Licence: B

CONFERENCES AND SEMINARS

12/07/2018 - 16/07/2018 - Cologne, Germany

30/01/2019 - 01/02/2019 - Roma

IUC - BOHNES colloquium

12/07/2020 - 14/07/2020 - Online

International Society of Electrophysiology and Kinesiology 2020

07/09/2021 - 09/09/2021

71st SIF National Congress - Società Italiana di Fisiologia

22/06/2022 - 26/06/2022 - Quebèc City, Canada

International Society of Electrophysiology and Kinesiology 2022

PROJECTS

01/10/2019 - 01/10/2021

Progetto di Ateneo 2019 – Università di Roma Foro Italico: Effects of neuromuscular electrical stimulation applied to the calf muscles on voluntary and reflex activationWrite here the description

01/06/2022 - 31/08/2022

Decathlon SportsLab - Scientific Report Scientific Report - LITERATURE REVIEW ON THE USE OF THE JUMP ROPE AND THE ELASTIC BAND IN SCHOOL CHILDREN

10/03/2021 - CURRENT

(Federazione Italiana Sclerosi Multipla) FISM call for Projects 2021 The effects of neuromuscular electrical stimulation on spinal excitability and spasticity in people with Multiple Sclerosis: a pilot study

10/04/2022 - CURRENT

Progetto di Ateneo 2022 – Università di Roma Foro Italico: Artificial Intelligence-based system to support professionals during WB-EMS intervention decision-making

14/09/2022 - CURRENT

Bando PRIN 2022 PNRR – Research of National Interest D.D. n. 1409 - 14/09/2022 Unravelling the neural mechanisms underlying muscle weakness: the importance of early detection and treatment through a novel homebased intervention

HONOURS AND AWARDS

15/04/2018

DAAD Prize - Outstanding academic achievements by international students - Deutsche Sporthochschule Köln

COMMUNICATION AND INTERPERSONAL SKILLS

Communication Skills Excellent communication skills in English and Spanish obtained during the Erasmus project in the year 2013/2014 and subsequent years of study in Germany and the United States.

Good German language skills acquired during the Master's Degree held at the German Sport University Cologne

VOLUNTEERING

01/07/2005 - CURRENT Perugia

Comitato per la Vita "Daniele Chianelli"

ALTRE COMPETENZE

01/10/2018 - CURRENT

Project Management Skills

Advanced skills in management, monitoring and accountability of scientific projects developed during the doctoral years at the University of Foro Italico.

01/10/2010 - CURRENT

Competenze informatiche

Digital Competences:

Microsoft Office™ tools, Software for data analysis Matlab® (MathWork™, USA), Software for statistical analysis SPSS® (SPSS Inc., USA), Python (v. 3.5), GraphPad Prism (GraphPad Software Inc., USA), Software for stereophotogrammetric systems Vicon Nexus (Oxford Metrics, UK) e BTS SMART Analyzer (BTS, Italy), OtBiolab software (Turin, Italy) Software for sEMG analysis, Brain Vision Analyzer and Recorder (Brain Vision gmbh, Germany) Software for EEG recording and analysis.

Other Skills

- First aid: CPR - Colorado University