

Curriculum Vitae

PERSONAL INFORMATION

Yuri Russo

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Nationality Italian

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EDUCATION AND TRAINING

- 11/2017–01/2021 **PhD Human Movement & Sport Sciences** EQF level 8
 University of Rome Foro Italico, Rome (Italy)
 Advisor: Giuseppe Vannozzi, PhD
 Final Mark: Excellent
 My PhD project focussed on the investigation of transient phases of gait, more specifically, it aimed to contribute to the understanding of gait initiation through a neuromechanical approach. I had the opportunity to perform research on both healthy and pathological populations.
 To pursue this objective, I gained experience in recording and analysing signals from:
 -Motion capture
 -Force plate
 -EMG
 -Inertial sensors
 -EEG
- 09/2019–04/2020 **Visiting Scholar**
 OHSU (Oregon Health and Science University), Portland, OR (United States)
 Supervisor: Martina Mancini, PhD
 Main Activities:
 -Support and carry out experimental campaigns with different pathological populations (e.g. Parkinson's Disease, Pisa Syndrome)
 -Research on the effect of visual cueing on gait initiation and steady-state gait using portable devices (inertial sensors, EEG) in people with Parkinson's Disease with and without FOG
 -Research on the interaction between brain activity and posture
 -Presentation of preliminary results at the 2020 PNW Basal Ganglia Coterie (Whistler, Canada)
- 09/2015–07/2017 **Master of Science Health and Physical Activity (International Degree)** EQF level 7
 University of Rome Foro Italico, Rome (Italy)
 Final Mark: 110/110 cum laude (1st class honours)
 Relevant Coursework:
 -Training in Academic English (written and spoken)
 -Acquisition of specific knowledge in biomechanics, neuroscience, physiology
 -Planning of physical activity for special populations and in the rehabilitation process
 -Training in Statistical Analysis (workshops with SPSS)
 -Training with fundamentals of programming and data analysis (MatLab)
- 10/2011–07/2015 **Bachelor's Degree in Sport Sciences** EQF level 6
 University of Catania, Catania (Italy)
 Final Mark: 110/110 cum laude (1st class honours)

Relevant Coursework:

- Human biology, anatomy, physiology, neurophysiology and biochemistry
- Physical Exercise and Sport (training and coaching)
- Sport Psychology and fundamentals of neuropsychiatry (children)
- Basic knowledge of neurology, orthopaedics and endocrinology

01/01/2014–30/04/2014 Work Experience Internship

Liceo Scientifico Statale Leonardo (high school), Giarre (Italy)

Main Activities:

- Planning of practical physical education lessons
- Teaching activities
- Planning of lectures
- Evaluation of pupils

**WORK AND TEACHING
EXPERIENCE**

07/2021- Present Postdoctoral Research Fellow

Department of Sport & Health Sciences
University of Exeter, Devon, (UK)

Main Activities:

- Grant writing
- Planning and carrying out experimental campaigns
- Data analysis and results dissemination
- Mentoring students
- Co-supervising PhD students

01/2021-04/2022 Adjunct Lecturer in Research Methodology

European Master Health & Physical Activity (EMHPA)
University of Rome Foro Italico, Rome (Italy)

Main Activities:

- Planning lectures and activities
- Lecturing students on research methodology and statistics fundamentals
- Lecturing students on practical use of SPSS in kinesiology
- Evaluating students

09/2018–07/2020 Co-supervisor

University of Rome Foro Italico, Rome (Italy)/ University of Roma Tre (Italy)

Main Activities:

- Helping MSc students find an appropriate research question for their work
- Supporting students with the interpretation of relevant literature, data analysis and statistical analysis
- Writing customized functions/scripts for data analysis
- Supporting students discussing relevant results and identifying potential limitations to the research

Thesis: co-supervised a MSc student (Health and Physical Activity)

Final Exam: co-supervised four MSc students (Biomedical Engineering)

05/2018–06/2019 Biomechanics Tutor

University of Rome Foro Italico, Rome (Italy)

Main Activities:

- Supporting undergraduate and graduate students
- Planning of lectures and activities
- Simulating both theoretical and empirical parts of the exam
- Piquing students' interest with a wide record of potential application of biomechanics

02/2017–05/2017 Lab Intern

University of Rome Foro Italico, Rome (Italy)

Intern experience in the biomechanics lab of the University. Experience with:

- Experimental campaigns
- Calibration of systems
- Data capturing
- Data analysis

Utilized instruments: inertial sensors, force platforms, EMG, stereophotogrammetry.

01/10/2016–31/10/2016 Kinesiology Intern (inpatient/outpatient clinic)

Villa Stuart, Rome (Italy)

Main Activities:

- Functional assessment of knee, wrist and ankle
- Evaluation of muscular performance with isometric dynamometry (MuscleLab) and field tests
- Rehabilitation and reconditioning of patients

01/09/2013–31/05/2014 Volleyball Trainer

Jonja Team A.S.D., Riposto (Italy)

Main Activities:

- Planning of training sessions
- Supervision and evaluation of training sessions
- Coaching
- Driving athletes to championship matches

PERSONAL SKILLS

Languages

English (Full Proficiency)
Italian (Native)
Norwegian Bokmål (Basic User)

Job-related skills

- Knowledge of biomedical statistics
- Knowledge of motion analysis, force platforms and inertial sensors
- Knowledge of EEG and surface EMG
- Experience in performing research and communicating with special populations
- Experience in applying for ethical approval

Software Skills and Competencies

- Data Management and Writing: Microsoft Office
- Reference management: Mendeley, EndNote
- Data Analysis & Statistics: Matlab, SPSS
- Other software: Vicon Nexus, MobilityLab V2, Motion Studio, Eeglab (Matlab), BrainVision Analyzer, TMSI Polybench

RESEARCH ACTIVITIES

Publications

Russo Y et al, Characterization of anticipatory postural adjustments in lateral stepping: impact of footwear and lower limb preference, *Sensors (Basel)* 2021 21(24): 8244

Russo Y & Vannozzi G. Anticipatory postural adjustments in forward and backward single stepping: task variability and effects of footwear, *J Biomech* 2021 122: 110442

Berchicci M, **Russo Y** et al, Stepping forward, stepping backward: a movement-related cortical potential study unveils distinctive brain activities, *Behav Brain Res* 2020 388: 112663

Russo Y et al, How do different movement references influence ERP related to gait initiation? A comparative methods' assessment, *J Neurosci Methods* 2019 311: 95-101

Russo Y et al, Does visual cueing improve gait initiation in people with Parkinson's disease? *Hum Mov Sci* **[Under Review]**

Siragy T, **Russo Y** et al, Biomechanical differences between overground and treadmill induced slips and trips: a systematic review **[Manuscript in preparation]**

Rum L, **Russo Y** et al, Biomechanical characterization of gait preparation in people with chronic low back pain **[Manuscript in preparation]**

Oral Presentations

New insights into responses to perturbation: Rock and roll in the Exeter VSimulators Presented at **MOBEX 2022**, Heidelberg, Germany

Does cueing improve gait initiation in people with Parkinson's disease? Presented at **PNW Basal Ganglia Coterie 2020**, Whistler, Canada

How do different movement references influence ERP related to gait initiation? A comparative methods' assessment. Presented at **SIAMOC 2018**, Florence, Italy

- Posters**
- Rum L, **Russo Y** et al, Anticipatory postural adjustments during gait initiation in people with mild chronic low back pain, **ISB 2021**, Stockholm, Sweden
 - Russo Y**, et al, Parkinson's disease and visual cueing: effects on gait initiation and walking. Presented at **ICAMPAM 2021**, Virtual Conference
 - Marinkovic D, **Russo Y** et al, Anticipatory postural adjustments in lateral stepping: comparison between barefoot and shod conditions. Presented at **SIAMOC 2019**, Bologna Italy
 - Russo Y**, Bergamini E, Vannozzi G, Patterns of anticipatory postural adjustments in step initiation: comparison of forward and backward stepping. Presented at **ISB/ASB 2019**, Calgary, Canada

- Service**
- Reviewer Activities:
- Neurorehabilitation & Neural Repair
 - 2021 IEEE International Workshop on Metrology for Industry 4.0 & IoT (MetroInd4.0&IoT)
 - Journal of Neuroengineering & Rehabilitation
 - Frontiers in Sport and Active Living

Event Organization:

- 6th BOHNES Colloquium

Conference/Session Chairing:

- 6th BOHNES Colloquium

Former Junior Representative at the Executive Committee of the Inter-university centre BOHNES ([Bohnes \(iuc-bohnes.eu\)](http://iuc-bohnes.eu))

- Awards**
- Awarded by the University of Rome Foro Italico with the Marinozzi Award for the best thesis of the Master program (2016/2017)
 - SIAMOC 2018 Award, Travel Award - Registration Rate Waiver