

Marco Romanato

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PERSONAL

Date of Birth: July 15, 1993

Place of Birth: Piove di Sacco, Padova, Italy

Citizenship: Italian

EDUCATION

University of Padova, Padova, Italy | October 2019 – Present

PhD Student

Bioengineering Motion Laboratory, Department of Information Engineering

University of Padova, Padova, Italy | September 2018

MSc in Bioengineering

Dissertation Title: Model-based estimation of musculoskeletal force during locomotion in individuals with Parkinson's disease.

Brief Synopsis: Estimation, through an EMG-informed model for the direct dynamics, of the muscle forces and the joint stiffness in healthy and Parkinsonian subjects who underwent different rehabilitation protocols.

Reykjavik University, Reykjavik, Iceland | January 2017 – May 2017

Erasmus+ Student Program

Independent Project: Brain activity during the rubber hand illusion experiment.

University of Padova, Padova, Italy | February 2016

BSc in Biomedical Engineering

Thesis: Sutureless aortic valves.

EMPLOYMENT

PhD Student | October 2019 – ongoing

University of Padova, Padova, Italy

Bioengineering Motion Laboratory, Department of Information Engineering

Research Fellow | March 2019 – September 2019

University of Padova, Padova, Italy

Bioengineering Motion Laboratory, Department of Information Engineering

Research Intern | March 2018 – July 2018

Erasmus+ Traineeship Program

University of Twente, Enschede, Netherlands

Neuro-Mechanical Modelling for Man-Machine Interaction research
group

PUBLICATIONS

- M. Romanato, M. Sartori, G. Dourandou, D. Volpe, Z. Sawacha, «An EMG-informed modelling approach for the prediction of internal variables during locomotion in Parkinson’s Disease patients: a feasibility study», oral presentation, SIAMOC, 9-12 Oct 2019, Bologna (ITA), Gait and Posture xxx. In Press.
- A. Guiotto, F. Spolaor, M. Romanato, D. Pavan, A. Peppe, D. Volpe, Z. Sawacha, «The neurorehabilitation device Equistasi® can induce changes in Parkinson’s Disease ankle joints kinematics and kinetics», poster presentation, SIAMOC, 9-12 Oct 2019, Bologna (ITA). Gait and Posture xxx. In Press.
- M. Romanato, M. Sartori, G. Dourandou, D. Volpe, Z. Sawacha, «Model-based estimation of musculoskeletal forces during locomotion in individuals with Parkinson’s Disease: a pilot study», poster presentation, ESMAC, 23-28 Sept 2019, Amsterdam (NDL). Gait and Posture xxx. In Press.
- A. Guiotto, F. Spolaor, M. Romanato, M. Durante, D. Pavan, A. Peppe, Z. Sawacha, D. Volpe, «Can a rehabilitation treatment with the device Equistasi® impact on motor control of Parkinson’s disease patients?», oral presentation, ESMAC, 23-28 Sept 2019, Amsterdam (NDL). Gait and Posture xxx. In Press.

SKILLS

Languages

Italian mother tongue, fluent in English, intermediate French

Computer Skills

Advanced: Windows Office (Microsoft), Matlab (R2013a-R2018a), Smart Capture, Smart Tracker, Smart Analyzer (BTS), Cortex (Motion Analysis Corporation), CEINMS (SimTK), OpenSim (SimTK), MOtoNMS (SimTK), asa (ANTneuro)

Intermediate: Pedar X Online, Pedar Steps, Emed Link (Novel), EMG-analyzer (BTS), EMGworks (Delsys)

Basic: ANSYS, SAP2000

ADDITIONAL INFORMATION

- October 9-12, 2019 Attended the “XX Congresso SIAMOC 2019”, held in Bologna (Italy)
- (2019 – present) Member of Italian Society of Motion Analysis in Clinics “SIAMOC”
- March 10, 2019 Attended the “IX Giornata dei Laboratori SIAMOC”, held in Genova (Italy)
- November 30, 2018 Presenter of the Seminar “Model-based estimation of musculoskeletal force

during locomotion in individuals with Parkinson's disease", at Biomechanics Group of University of Bologna, Bologna (Italy), organized by Professor M. Viceconti