



Andrea Canessa

Fixed-term assistant professor

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Education and training

2011

PhD in Bioengineering

Visuomotor interactions in 3D spatial sensing motor influences on distributed representations of binocular disparity

University of Genova - Genova - IT

2007

MSc in Bioengineering (curriculum Neuroengineering)

Adaptive representations of the visual signal based on predictive coding - 110/110 cum Laude

University of Genova - Genova - IT

2004

BSc in Biomedical Engineering

Analysis of a cortical architecture for the perception of relative depth in a static scene - 107/110

University of Genova - Genova - IT

Academic experience

2017 - ONGOING

Assistant Professor

University of Genova - Genova - IT

2014 - 2017

Post-doctoral fellow

University of Genova - Genova - IT

Parkinson's disease EEG DBS TMS-hdEEG Gait impairment Virtual Reality Rehabilitation

2013 - 2014

Post-doctoral fellow

Italian National Research Council - Genova - IT

Serious Game cognitive disability

2011 - 2013

Post-doctoral fellow

Università di Genova - Genova - IT

Stereopsis neuromorphic distributed architectures Eye movements modelling Early Vision RGBD devices Virtual Reality visuomotor rehabilitation

2008 - 2011

Doctoral fellow

Università di Genova - Genova - IT

Stereopsis neuromorphic distributed architectures Eye movements modelling Early Vision RGBD devices Virtual Reality visuomotor rehabilitation

Language skills

Italian

Mother tongue

English

Independent

Teaching activity

Didactic activity

2019 - 2020 Teaching of the course “Biomechanics ” for the Bachelor Degree in Sport Science at the University of Genova

2018 - 2020 Teaching of the course “Biomechanics and bioengineering of movement” for the Master Degree in Science and techniques for the preventive motor activity at the University of Genova

Support of Didactic activity

2017 - 2018 Teaching support of the course 'Biomedical instrumentation and bioimages' for the Master Degree in Bioengineering at the University of Genova

2010-2011-2012 Teaching support of the course 'Computer Vision' for the European Master on Advanced Robotics (EMARO), at the University of Genova

2008-2009 Teaching support of the course 'Perceptual systems modelling' for the Master Degree in Bioengineering at the University of Genova

2007-2008 Teaching support of the course 'Informatics Fundamentals' for the Bachelor Degree in Biomedical Engineering at the University of Genova

Postgraduate research and teaching activity

Supervision of PhD students, residents and post-doctoral fellows

Supervisor of two PhD student for the PhD School in Bioengineering and Robotics of the University of Genova

PhD committees membership

Member of the teaching board for the PhD School in Bioengineering and Robotics of the University of Genova

Postgraduate (PhD) teaching activity

2017 -2018 Teaching of the PhD course “Brain Connectivity” for the PhD School in Bioengineering and Robotics at the University of Genova

Research interests

Electrophysiological alterations in movement disorder syndromes
Deep Brain Stimulation in Parkinson’s Disease
Virtual Reality NeuroRehabilitation
Technological tools to enhance sensorimotor control

Editorial activity

Journals

Frontiers in Bioengineering and Biotechnology, Frontiers in Robotics and AI, Scientific Reports, Robotics and Autonomous Systems, Multimodal Technologies and Interaction, Sensor.

International conferences

INNS, IJCNN, BioRob, EMBC

Assignments abroad

Visiting fellowship

2019 Department of Biomedical Engineering, Marquette University, Wisconsin, USA

2016 Wellcome Trust Centre for Neuroimaging, Institute of Neurology, University College of London, UK

2015 CUNY, CCNY, Department of Physiology, Pharmacology and Neuroscience, New York, USA