

## PERSONAL INFORMATION Martina Galluccio

## STUDIES APPLIED FOR

Basic and applied research in neuro-scientific field, development of innovative technologies concerning the integration between neurophysiology and Information Technology, innovation and development in biomedical field especially in in what concerns systems of motion captures and kinematic analysis. Development and evaluation of medical devices: high-tech and supporting tools to clinical activity, as well as technologies for the assessment, the promotion of the rehabilitation and / or replacement of sensory, motor and cognitive functions.

## WORK EXPERIENCE

15/10/2017-20/04/2020 PhD representative in the department council of Biomedical and Chirurgical Sciences at Ferrara University, via Fossato di Mortara, 17-19 ,44121, Ferrara.

2/01/2017-31/10/2017 Internship at Center for Translational Neurofisiology, Italian Institute of Technology (IIT), via Fossato di Mortara, 17-19 ,44121, Ferrara.

Collaboration within a project concerning motor activation through action observation, study of software development kit of a low-cost human tracking system (Kinect) and development of a motion capture software.

15/09/2015- 15/03/2016 Internship at Robert Debrè Pediatric hospital, Paris, trainee at CNRS, UMR 1141 Inserm-Paris 7.

Study of eye movements in dyslexic children recorded by an eye-tracker while they are reading a spaced text, more in detail:

- Development of a specific experimental protocol to test reading performance.
- Experiments' conduction.
- Development of a software for eye-tracking device to analyze data.

21/01/2013- 15/03/2013 Part-time collaborative activities at the University of Genoa

University tax office and registrar.  
Management of file archive and public relations.

## EDUCATION AND TRAINING

1/11/2017-Present PhD in Translational Neuroscience and Neurotechnology with an IIT scholarship University of Ferrara, at Center for Translational Neurophysiology, Italian Institute of Technology, via Fossato di Mortara, 17-19 ,44121, Ferrara.

The activity research during the academic year 2017/2018 focused mainly on the study of motor resonance processes investigating different aspects. The first project is in collaboration with a Swiss company, in the context of rehabilitation of the upper limb in post-stroke patients, to develop a rehabilitation platform using Action Observation Therapy paradigm and body-tracking.

- Study of an experimental protocol for the AOT module and definition of parameters to be recorded.
- Validation of the Motion Capture System developed by the Swiss company: comparison with Qualisys (a validated motion capture system) and Kinect.
- Integration of a hand tracking system called Manus-VR to the existent MOCAP.

The second project is about the emotional responses during music audition and musicians observation: in detail I studied the correlation between the emotion evoked by auditory stimulation and body temperature in an audience attending to opera using a thermos camera.

- Analysis of thermal data and thermal images.

10/2013-31/03/2016

Master's Degree in Bioengineering  
University of Genoa, Faculty of Engineering  
Via Montallegro 1, 16149 Genoa.

Achieved mark: 110/110 magna cum laude.

Thesis Title: "Eye movement during reading in dyslexic children"

Supervisors: Prof. Francesco Masulli, Prof. Maria Pia Bucci

15/09/2015- 15/03/2016

Trainee with the support of Erasmus scholarship in France at Robert Debrè hospital, Paris 7

10/2009-22/03/2013

Bachelor's Degree in Biomedical Engineering  
University of Genoa, Faculty of Engineering  
Via Montallegro 1, 16149 Genoa

Thesis Title: "Study of synaptic plasticity in hippocampal neuronal networks coupled to MEAs"

Supervisor: Prof. Sergio Martinoia

30/07/2009-15/08/2009

Intensive General English Course (60 hours)  
Bournemouth International Business School  
Avon House, 26-28 St Peter's Road, Bournemouth, Dorset, England

- Intensive study of the English language at B2 Upper Intermediate level.

10/2004-7/2009

Classic High School Diploma  
High School Andrea D'Oria  
Via Armando Diaz 8, 16121 Genoa

PERSONAL SKILLS

Mother tongue Italian

Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	B2	B2	C1
First Certificate. Level B.					
French	C2	C2	C1	C1	A1
CECR. Level C1.					

Communication skills Good communication skills gained through: work group experiences during my educational path, job experience at the University of Genoa and during my internship in Paris and in IIT. Ability to work and interact with colleagues specialized in different fields and with experts outside my team.  
Good communication skills with children developed at Robert Debrè Hospital in Paris.

- Organizational and managerial skills
- Attitude to work by targets and accurately.
  - Teamwork attitude.
  - Work in accordance with a given deadline.
  - Excellent organizational skills.
  - Good flexibility.
  - Good communication skills.
  - Good ability to adapt to multicultural environments.
  - Willing to travel for work and to relocate in Italy and abroad.

Additional skills Laboratory experience collected during my Bachelor's thesis my Master's thesis development and especially during my work at Italian Institute of Technology. Good knowledge human oculomotor system and computer vision acquired during my internship in Paris.  
Experience in kinematic analysis, in particular:

- Excellent knowledge of different motion tracking systems such as Vicon, Quallsisys and Kinect and electromagnetic motion capture systems such as the Wave System from NDI.
- Good knowledge of the hand tracking system ManusVR.

## Computer skills

- Excellent knowledge of MS Office and Internet.
- Excellent knowledge of Matlab.
- Good programming skills in C, C + + and Visual Basic.
- Knowledge of C#.
- Good knowledge of Python.

## Personal interests

In my spare time I like planning trips by myself and traveling all around the world, I also like music and I played clarinet for three years. I play sports such as running and swimming and I played tennis and skiing at competitive level.

I authorise the use of my personal data  
in compliance with  
Legislative Decree  
196/03