



# Andrea Tacchino

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## WORK EXPERIENCE



**NATIONAL SCIENTIFIC QUALIFICATION TO FULL PROFESSOR IN HEALTH PROFESSIONS SCIENCES AND APPLIED MEDICAL TECHNOLOGIES (CODE 06/N1) – 17/12/2023 – CURRENT**



**NATIONAL SCIENTIFIC QUALIFICATION TO ASSOCIATE PROFESSOR IN PSYCHOLOGY, PSYCHOBIOLOGY AND PSYCHOMETRY (CODE 11/E1) – 12/12/2023 – CURRENT**



**NATIONAL SCIENTIFIC QUALIFICATION TO ASSOCIATE PROFESSOR IN HEALTH PROFESSIONS SCIENCES AND APPLIED – 15/10/2018 – CURRENT**

**ITALIAN MULTIPLE SCLEROSIS FOUNDATION – GENOA, ITALY**

**Business or Sector** Professional, scientific and technical activities | **Address** Via Operai 40, Genoa (Italy), 16149, Genoa, Italy |

**Website** [www.aism.it](http://www.aism.it)

**RESEARCHER – 04/05/2011 – CURRENT**

Member of the Scientific Rehabilitation Area of the Italian Multiple Sclerosis Foundation.

My interests are focused on:

- impact of motor and cognitive rehabilitation on behavioural and neural correlates.
- impact of physical activity on behavioural and neural correlates.
- prediction of disease evolution modeling bigdata of Patient Centered Outcomes.
- pragmatics of communication, social cognition, and theory of mind.
- unmet needs and quality of life in people with multiple sclerosis and caregivers.
- validation of clinical scales for the evaluation of people with multiple sclerosis.
- use of devices for the assessment, monitoring, and rehabilitation of neurological diseases.

**EXPERIMENTAL MEDICINE DEPARTMENT, UNIVERSITY OF GENOA – GENOA**

**Business or Sector** Professional, scientific and technical activities | **Address** Via Leon Battista Alberti, 2, 16132, Genoa |

**Website** [www.dimes.unige.it](http://www.dimes.unige.it)

**POST DOC – 03/05/2009 – 03/05/2011**

Motor control in healthy and neurological populations

**EXPERIMENTAL MEDICINE DEPARTMENT, UNIVERSITY OF GENOA – GENOA, ITALY**

**Business or Sector** Professional, scientific and technical activities | **Address** Via L. B. Alberti 2, 16132, Genoa, Italy |

**Website** [www.dimes.unige.it](http://www.dimes.unige.it)

**PHD STUDENT – 01/01/2006 – 27/03/2009**

Motor control in healthy and neurological populations

**DEPARTMENT OF PHYSIOLOGY AND PHARMACOLOGY OF CUNY (NEW YORK) – UNITED STATES**

**RESEARCH FELLOW – 15/05/2007 – 30/06/2007**

At the Laboratory of Prof. Maria Felice Ghilardi.

Aim: Motor learning during fine finger movements.

 **EXPERIMENTAL MEDICINE DEPARTMENT, UNIVERSITY OF GENOA** – GENOA, ITALY

**Business or Sector** Professional, scientific and technical activities | **Address** Via L. B. Alberti 2, 16132, Genoa, Italy |

**Website** [www.dimes.unige.it](http://www.dimes.unige.it)

## **RESEARCH ASSISTANT** – 01/05/2005 – 31/12/2005

Transcallosal inhibition in patients with multiple sclerosis

 **UNIVERSITY OF GENOA** – GENOA, ITALY

**Business or Sector** Professional, scientific and technical activities | **Address** Via L. B. Alberti 2, 16132, Genoa, Italy |

**Website** [www.matam.it](http://www.matam.it)

## **TECHNICAL MANAGER, TUTOR AND TEACHER** – 01/05/2005 – 03/05/2011

Technical manager, Tutor and Teacher for the Master of ICT applied to Medicine



## **UNIVERSITY TEACHER** – 09/2005 – CURRENT

**2013 - 2025: Rehabilitation engineering and prosthetic devices** for the *Master degree for Biomedical Engineering* - University of Genoa

**2021 - 2025: Devices and Technologies for Rehabilitation** for the *Bachelor's degree for Biomedical Engineering* - University of Cagliari

**2006 - 2009 (and 2013 - 2025): Information and Communication Technology** for the *Bachelor's degree for Sport Science* - University of Genoa

**2005 - 2009 (and 2017 - 2025): Computer Assisted Design** for the *Bachelor's degree for Orthopedic technicians* - University of Genoa

**2013 - 2023: Information and Communication Technology** for the *Master degree for Sport Science* - University of Genoa

**2022: Neurorehabilitative treatments for neurological pathologies. Focus on Multiple Sclerosis** for *Scuola IANUA* - University of Genoa

**2019 - 2021: Multiple Sclerosis: Clinical, cognitive and motor aspects of the disease** for the *Master in Clinical Neuroscience* - Catholic University of Sacro Cuore

**2012 - 2017: Electronic and electric measurements** for the *Bachelor's degree for Orthopedic technicians* - University of Genoa

**2005 - 2013: Human Physiology** for the *Bachelor's degree for Biomedical Engineering* - University of Genoa

**2011: Human Physiology** for the *Bachelor's degree for Physical Therapy* - University of Genoa

**2011: Information and Communication Technology** for the *Master in Management of Health Systems* - University of Genoa

**2007 - 2010: Bioengineering, Electronics and Information and Communication Technology** for the *Master degree for Sport Science* - University of Genoa

**2007 - 2009: Information and Communication Technology** for the *Fitness Trainers Course* - University of Genoa



## **OTHER TEACHING AND RESPONSIBILITIES** – 2009 – CURRENT

**2025: Scientific responsibility and Speaker** for “**Al confine tra Robotica e tecnologie digitali nella SM e in altre patologie neurologiche**” organized by AISM, Genoa, Italy

**2024: Invited Speaker** for the webinar “**Frontiere innovative nella Sclerosi Multipla**” organized by the Italian Multiple Sclerosis Society (AISM), online, Italy

**2023: Scientific responsibility and Speaker** for “**Teleriabilitazione nella Sclerosi Multipla: dalla valutazione al trattamento**” organized by AISM, Genoa, Italy

**2023: Invited Speaker** for “**ECTRIMS Summer School 2023: From biological basis to ecological implications of rehabilitation in MS**” organized by the ECTRIMS, Gdansk, Poland

**2022: Scientific responsibility and Speaker** for “**Stabilometria nella Sclerosi Multipla dalla valutazione alla misura di outcome**” organized by AISM, Genoa, Italy

**2021: Scientific Committee and Speaker** for “**Medicina digitale e teleriabilitazione durante ed oltre l'emergenza sanitaria focus su patologie neurologiche**” organized by AISM, online, Italy

**2020: Invited Speaker** for “**Recenti acquisizioni nella sclerosi multipla**” organized by AISM, Genoa, Italy

**2019: Scientific responsibility and Speaker** for “**Education in specific biomedical devices classes**” for the “**Management of biomedical technologies**” organized by the LIUC Business School, Aosta, Italy

**2019: Scientific responsibility and Speaker** for “**Misure di outcome per la SM: aggiornamento della letteratura e training di somministrazione**” organized by AISM, Genoa, Italy

**2019: Scientific responsibility and Speaker** for “**Recenti acquisizioni nella sclerosi multipla: le tecnologie ambulatoriali e domiciliari per il trattamento riabilitativo della sclerosi multipla**” organized by AISM, Genoa, Italy

**2018: Invited Speaker** for “**La riabilitazione cognitiva ed in dual-task nella SM**” organized by AISM, Genoa, Italy

**2018: Invited Speaker** for “**Recenti acquisizioni nella sclerosi multipla**” organized by AISM, Padua, Italy

**2018: Invited Speaker** for “Recenti acquisizioni nella sclerosi multipla” organized by AISM, Genoa, Italy  
**2017: Scientific responsibility and Speaker** for “Ricerca nella SM: le tecnologie al servizio della riabilitazione” organized by AISM, Genoa, Italy  
**2012: Invited Speaker** for “Una ricerca di qualità: analisi degli aspetti metodologici della ricerca psicologica nella Sclerosi Multipla” organized by AISM, Genoa, Italy  
**2009: Teacher** for “Information and Communication Technology” for the Ordine dei medici, Genoa, Italy



#### **PHD TUTORING – 2023 – CURRENT**

**PhD candidate:** Piovani Giulia; **Doctorate** in Bioengineering and Robotics, **Curriculum:** Bioengineering and Robotics; **Cycle:** XXXIX. (Tutor)  
**PhD candidate:** Grange Erica; **Doctorate** in Bioengineering and Robotics, **Curriculum:** Bioengineering and Robotics; **Cycle:** XXXIX. (Tutor)  
**PhD candidate:** Canepa Danilo; **Doctorate** in Bioengineering and Robotics, **Curriculum:** Bioengineering and Robotics; **Cycle:** XXXIX. (Company responsible)  
**PhD candidate:** Bazegar Samin; **Doctorate** in Bioengineering and Robotics, **Curriculum:** Bioengineering and Robotics; **Cycle:** XL. (Tutor)



#### **REVIEWER – 2012 – CURRENT**

##### **Reviewer for manuscripts for the following international journals:**

ACTA Scandinavia, Applied Neuropsychology, Archives in Physiotherapy, Archives of Physical Medicine and Rehabilitation, Bioengineering (MDPI), BMC Sports Science, Medicine and Rehabilitation, Brain Science, British Journal of Occupational Therapy, Clinical Rehabilitation, Computational Intelligence and Neuroscience, Computers in Biology and Medicine, Disability and Rehabilitation, Experimental Brain Research, Frontiers in Human Neuroscience, Frontiers in Neurology, Frontiers in Psychology, JMIR Serious Games, Journal of Neural Transmission, Journal of NeuroEngineering and Rehabilitation, Journal of Neurologic Physical Therapy, Multiple Sclerosis and Related Disorders, Multiple Sclerosis International, Multiple Sclerosis Journal: Experimental Translational and Clinical, Neurolmage, Neurology, Neurorehabilitation and Neural Repair, Philosophical Transactions of the Royal Society B, PlosONE, Scientific Report.



#### **EDITOR – 2021 – CURRENT**

##### **Associate editor:**

■ Frontiers in Human Neuroscience



#### **SCIENTIFIC COMMITTEES – 2018 – 2024**

Member of the Scientific Committee of “Rete Psicologi”, an initiative organized by the Italian Multiple Sclerosis Society (AISM) to share scientific knowledge among psychologists expert of Multiple Sclerosis.  
Member of the Organizing Committee of “RIMS Conference: Translating Knowledge into Practice: Embracing the Complexity of MS Rehabilitation” - RIMS - Genoa



#### **WORKGROUPS – 2017**

Member of the workgroup for the “**MANIFESTO PER UNA SANITA’ “INTELLIGENTE”**”, an initiative organized by **i-com** organization on the role of Artificial Intelligence in Public Health.

### ● **EDUCATION AND TRAINING**

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2019 Turin, Italy

**MASTER DEGREE IN PSYCHOLOGY (BODY AND MIND SCIENCES) (FINAL MARK 110/110)** University of Turin

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**Field of study** Psychology | **Final grade** 110/110 |

**Thesis** Social cognition decline in people with Multiple Sclerosis. Evidences from movement intention recognition.

2015 Turin, Italy

**BACHELOR DEGREE IN PSYCHOLOGICAL SCIENCES (FULL MARKS WITH HONORS)** University of Turin

**Field of study** Psychology | **Final grade** 110/110 Cum laude |

**Thesis** Cognitive disorders in Multiple Sclerosis. From diagnosis to treatment.

01/01/2006 – 27/03/2009 Genoa, Italy

**PHD IN BIOENGINEERING** University of Genoa

**Field of study** Engineering | **Level in EQF** EQF level 8 |

**Thesis** The future is in our hands: a neuroengineering approach to study the neurophysiology of finger movements.

2004 Genoa, Italy

**MASTER DEGREE IN BIOENGINEERING (FINAL MARK 110/110)** University of Genoa

**Field of study** Engineering | **Final grade** 110/110 |

**Thesis** Design and Development of a tool for the quantitative evaluation of the fine finger movements.

2002 Genoa, Italy

**BACHELOR DEGREE IN BIOMEDICAL ENGINEERING (FINAL MARK 104/110)** University of Genoa

**Field of study** Engineering | **Final grade** 104/110 |

**Thesis** Software development for the impedance featuring of matrices of electrical micro-transducers.

1994 – 1999 Genoa, Italy

**HIGH SCHOOL DIPLOMA (CLASSICAL STUDIES)** Liceo classico statale Giuseppe Mazzini

## ● LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C2	C2	C2	C1	C2
<b>FRENCH</b>	C1	C2	B1	B1	B1

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

## ● SKILLS

Instagram | Microsoft Office | Microsoft Excel | Microsoft Powerpoint | Google Docs | Social Media | Skype | Google Drive | Outlook | LinkedIn | Visual Studio - Visual C# | Experience in MATLAB, python, and R

## ● HONOURS AND AWARDS

### Honours and awards

#### Awards as First author:

**2014: Award for best platform presentation** “Social cognition decline in Multiple Sclerosis. Evidences from intention recognition” at **The CONSORTIUM of Multiple Sclerosis Centers 2014** – Dallas, Texas, **US**

**2012: Young Research Award for Best contribute Basic Knowledge and Methodologies** “III National Bioengineering Congress” – Rome, Italy

**2009: National Award for PhD Thesis** - “National Bioengineering Group”

#### Awards as Participant:

**2023: Award for Best contribute to Clinical Research** “Exergames a domicilio per migliorare la funzione cognitive nella Sclerosi Multipla: uno studio multicentrico, randomizzato, controllato con sham, ion singolo cieco, a bracci paralleli (EXTREMUS).” **International Scientific Congress AIFI** – Bologna, Italy

**2017: Award for Second best oral presentation** "Responsiveness of upper limb outcome measures in people with multiple sclerosis: an European RIMS multi-center study." **RIMS congress 2017** – Barcelona, Spain  
**2013: Award for poster presentation** "Motor rehabilitation impacts the white matter microstructure of corpus callosum in patients with multiple sclerosis" at **RIMS congress 2013** – Copenhagen, Denmark  
**2009: Award for poster presentation** "Unimanual and bimanual fingers movements analysis in patients affected by Tourette Syndrome" at XXXVI Congresso Nazionale LIMPE– Genoa, Italy

## **PATENTS**

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### **Patents**

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**2022: Activity Battery Outcome** (Scientific-Clinical App for Android mobile devices) – N° D000017020, Ordinativo D000016063, 04/02/2022

**2013: Structured Cognitive Functions Training Kit** (Scientific-Clinical App for Android mobile devices) – N° 008950, Ordinativo D008111, 20/08/2013

## **CITATIONS**

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### **Citations**

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H-Index: Scopus, 27; Web of Science, 26

## **ORGANISATIONAL SKILLS**

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### **Organisational skills**

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Good organizational and leadership skills.

## **COMMUNICATION AND INTERPERSONAL SKILLS**

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### **Communication and interpersonal skills**

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I establish good relations both at work and in the free time. I am used to teamwork and to opinion sharing.

## **SCIENTIFIC PROFILE**

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### **Publications, Poster presentations, Oral presentations, Chairman position, Projects**

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Number of publications: 107