| PERSONAL INFORMATION | Andrea Tacchino |
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**POSITION** Researcher in Rehabilitation

**WORK EXPERIENCE**

**2018–Present**   National Scientific Qualification to Associate Professor in Health professions sciences and applied medical technologies (code 06/N1)

**4 May 2011–Present**   Researcher
Italian Multiple Sclerosis Foundation
Via Operai 40, Genoa (Italy), 16149 Genoa (Italy), www.aism.it

Member of the Scientific Rehabilitation Area of the Italian Multiple Sclerosis Foundation. My interests are focused on:

- the impact of motor and cognitive rehabilitation on behavioural and neural correlates in people with multiple sclerosis.
- the impact of physical activity on behavioural and neural correlates in people with multiple sclerosis.
- models applied to big-data of Patient Centered Outcomes to predict disease evolution in people with multiple sclerosis.
- social cognition in people with multiple sclerosis.
- 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 and caregivers.
- development of devices for the rehabilitation of people with multiple sclerosis.

Business or sector: Professional, scientific and technical activities

**3 May 2009–3 May 2011**   Post Doc
Experimental Medicine Department, University of Genoa
Via Leon Battista Alberti, 2, 16132 Genoa (Italy), www.dimes.unige.it
Motor control in healthy and neurological populations

Business or sector: Professional, scientific and technical activities

**1 Jan 2006–27 Mar 2009**   PhD Student
Experimental Medicine Department, University of Genoa
Via L. B. Alberti 2, 16132 Genoa (Italy), www.dimes.unige.it
Motor control in healthy and neurological populations

Business or sector: Professional, scientific and technical activities

**2007**   Research Fellow
Department of Physiology and Pharmacology of CUNY (New York)
At the Laboratory of Prof. Maria Felice Ghilardi.
Aim: study of fine finger movements during the execution of tasks of motor learning.

**1 Jan 2005–31 Dec 2005**   Collaborator
Experimental Medicine Department, University of Genoa
Via L. B. Alberti 2, 16132 Genoa (Italy), www.dimes.unige.it
Transcallosal inhibition in patients with multiple sclerosis

Business or sector: Professional, scientific and technical activities

**1 May 2005–3 May 2011** — Technical manager, Tutor and Teacher

University of Genoa
Via L. B. Alberti 2, 16132 Genoa (Italy), www.matam.it

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

Business or sector Professional, scientific and technical activities

**2005–Present** — University teaching assistant

**2005 - 2009 (and 2017 - 2023): Computer Assisted Design** 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*

**2006 - 2009 (and 2013 - 2023): Information and Communication Technology** for the *Bachelor's degree for Sport Science- University of Genoa*

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

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

**2012 - 2017: Electronic and electric measurements** 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*

**2013 - 2023: Rehabilitation engineering and prosthetic devices** for the *Master degree for Biomedical Engineering - University of Genoa*

**2021 - 2023: Devices and Technologies for Rehabilitation** for the *Bachelor's degree for Biomedical Engineering - University of Cagliari*

**2019 - 2021: Sclerosi Multipla: Aspetti clinici, cognitivi e motori della patologia** for the *Master in Clinical Neuroscience – Catholic University of Sacro Cuore*

**2022: Trattamenti neuroriabilitativi per le patologie neurologiche. Focus sulla Sclerosi Multipla** for *Scuola IANUA – University of Genoa*

**2009–Present** — Teaching and Responsibilities

**2023: Scientific responsibility and Speaker** for **"Teleriabilitazione nella Sclerosi Multipla: dalla valutazione al trattamento"** organized by the Italian Multiple Sclerosis Society (AISM)

**2023: Invited Speaker** for **"ECTRIMS Summer School 2023"** organized by the ECTRIMS

**2022: Scientific responsibility and Speaker** for **"Stabilometria nella Sclerosi Multipla dalla valutazione alla misura di outcome"** organized by the Italian Multiple Sclerosis Society (AISM)

**2021: Scientific Committee and Speaker** for **"Medicina digitale e teleriabilitazione durante ed oltre l'emergenza sanitaria focus su patologie neurologiche"** organized by the Italian Multiple Sclerosis Society (AISM)

**2020: Invited Speaker** for **"Recenti acquisizioni nella sclerosi multipla"** organized by the Italian Multiple Sclerosis Society (AISM)

**2019: Scientific responsibility and Speaker** for **"Education in specific biomedical devices classes"** for the **"Management of biomedical technologies"** organized by the LIUC Business School

**2019: Scientific responsibility and Speaker** for **"Misure di outcome per la SM: aggiornamento della letteratura e training di somministrazione"** organized by the Italian Multiple Sclerosis Society (AISM)

**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 the Italian Multiple Sclerosis Society (AISM)

**2018: Invited Speaker** for **"La riabilitazione cognitiva ed in dual-task nella SM"** organized by the Italian Multiple Sclerosis Society (AISM)

**2018: Invited Speaker** for **"Recenti acquisizioni nella sclerosi multipla"** organized by the Italian Multiple Sclerosis Society (AISM) in Padua

**2018: Invited Speaker** for **"Recenti acquisizioni nella sclerosi multipla"** organized by the Italian Multiple Sclerosis Society (AISM) in Genoa

**2017: Scientific responsibility and Speaker** for **"Ricerca nella SM: le tecnologie al servizio della riabilitazione"** organized by the Italian Multiple Sclerosis Society (AISM)

**2012: Invited Speaker** for **"Una ricerca di qualità: analisi degli aspetti metodologici della ricerca psicologica nella Sclerosi Multipla"** organized by the Italian Multiple Sclerosis Society (AISM)

**2009: Teacher** for **"Information and Communication Technology"** for the *Ordine dei Medici of Genoa*

**2012–Present**  **Reviewer**

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

*Journal of Neural Transmission, Clinical Rehabilitation, Disability and Rehabilitation, PlosONE, British Journal of Occupational Therapy, Multiple Sclerosis and Related Disorders, Multiple Sclerosis International, Multiple Sclerosis Journal: Experimental, Translational and Clinical, Journal of NeuroEngineering and Rehabilitation, Archives in Physiotherapy, Scientific Report, Applied Neuropsychology, Computational Intelligence and Neuroscience, Brain Science, Frontiers in Psychology, JMIR Serious Games, Neurology*

**2021–Present**  **Editor**

**Associate editor:**

- Frontiers in Human Neuroscience

**2018–Present**  **Scientific Committees**

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 Rehabiltiation" - RIMS - Genoa

**2018**  **Workgroups**

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

**2019**  Master degree in Psychology (Body and mind sciences) (final mark 110/110)

University of Turin

Title: "Social cognition decline in people with Multiple Sclerosis. Evidences from movement intention recognition."

**2015**  Bachelor degree in Psychological Sciences (full marks with honors)

University of Turin

Title: "Cognitive disorders in Multiple Sclerosis. From diagnosis to treatment."

**1 Jan 2006–27 Mar 2009**  PhD in Bioengineering                    EQF level 8

University of Genoa, Genoa (Italy)

Title: "The future is in our hands: a neuro-engineering approach to study the neurophysiology of finger movements."

**2002–2004**  Master degree in Bioengineering (final mark 110/110)

University of Genoa, Genoa (Italy)

Title: "Design and Development of a tool for the quantitative evaluation of the fine finger movements."

| 1999–2002 | **Bachelor degree in Biomedical Engineering (final mark 104/110)** |
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University of Genoa, Genoa (Italy)

Title: "Software development for the impedence featuring of matrices of electrical micro-transducers."

| 1994–1999 | **High school diploma (classical studies)** |
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Liceo classico statale Giuseppe Mazzini, Genoa (Italy)

## PERSONAL SKILLS

**Mother tongue(s)**    Italian

**Foreign language(s)**

| | UNDERSTANDING | | SPEAKING | | WRITING |
|---|---|---|---|---|---|
| | Listening | Reading | Spoken interaction | Spoken production | |
| English | C2 | C2 | C1 | C1 | C2 |
| French | C1 | C2 | B1 | B1 | B1 |

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages - Self-assessment grid

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

**Organizational / managerial skills**    Good organizational and leadership skills.

**Digital skills**

| SELF-ASSESSMENT | | | | |
|---|---|---|---|---|
| Information processing | Communication | Content creation | Safety | Problem-solving |
| Proficient user | Proficient user | Proficient user | Proficient user | Proficient user |

Digital skills - Self-assessment grid

Mastery in programming languages: C, C#, MatLab..

Mastery in Xamarin and Visual Studio platforms for mobile devices' application development.

Mastery in BTS Smart-D for movement analysis system.

Mastery in Office, Internet and E-mail packages.

Skills in statistical analysis softwares Origin and Statistica.

**Driving licence**    B

## ADDITIONAL INFORMATION

**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:**

**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, Danmark

**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    **2013: Structured Cognitive Functions Training Kit** (Scientific-Clinical App for Android mobile devices) – N° 008950, Ordinativo D008111,20/08/2013
**2022: Activity Battery Outcome (ABOUTCOME)** – N° D000017020, Ordinativo D000016063, 04/02/2022

Copyrights    **2020: Daily-living Activities Questionnaire (DIDA-Q)** (doi.org/10.1016/j.msard.2020.102601)

Citations    H-Index: Scopus, 20; Web of Science, 16

Paper    author of 85 peer-reviewed papers

# Disclosure

Si autorizza il trattamento dei propri dati personali ai sensi del D. Lgs. n. 196 del 30/06/2003. Il presente CV ha funzione di autocertificazione ai sensi dell'art. 13 GDPR 679/16.

Genova, 13 Giugno 2023

Andrea Tacchino