

DATI ANAGRAFICI

NOME	Ludovico
COGNOME	Pedullà
DIPENDENTE DI (indicare Ente/Azienda di appartenenza)	Fondazione Italiana Sclerosi Multipla
CON LA QUALIFICA DI	Ricercatore

TITOLI DI STUDIO

DOTTORATO DI RICERCA	Neuroscienze, Curriculum Scienze delle attività motorie e sportive, Università degli Studi di Genova, 2017
LAUREA SPECIALISTICA/MAGISTRALE O LAUREA VECCHIO ORDINAMENTO ANTE 509/2009	Bioingegneria, Università degli Studi di Genova, 2013 (104/110)
LAUREA TRIENNALE O DIPLOMA UNIVERSITARIO	<ul style="list-style-type: none">• Ingegneria Biomedica, Università degli Studi di Genova, 2011 (95/110)• Fisioterapia, Università degli Studi di Genova, 2007 (110/110 con lode)
DIPLOMA DI ISTRUZIONE SECONDARIA	Diploma di istruzione secondaria, Liceo classico statale Andrea D'Oria, 2004 (100/100)

ESPERIENZA ACCADEMICA

ATTIVITA' DIDATTICA UNIVERSITARIA (ULTIMI 15 ANNI)	Attività di supporto alla didattica nei seguenti insegnamenti: <ul style="list-style-type: none">• 2018-oggi: CdL Fisioterapia, Sistemi di elaborazione delle informazioni (Cinesiologia, biomeccanica e riabilitazione generale)• 2017-oggi: CdL magistrale Bioingegneria, Medical Technologies for Clinical Neuroscience• 2015-2019: CdL triennale Ingegneria Biomedica, Fisiologia Umana
RELATORE A TESI DI LAUREA	Correlatore di più di 10 tesi per studenti dei CdL in Fisioterapia, Scienze motorie (triennale e magistrale), Ingegneria Biomedica (triennale e magistrale)

ESPERIENZA PROFESSIONALE ISTITUZIONALE

ESPERIENZA RELATIVA ALL'ESERCIZIONE DELLA PROFESSIONE NELLO PROFILO PROFESSIONALE DI APPARTENENZA (ULTIMI 15 ANNI)	<ul style="list-style-type: none"> • 2019-oggi: Ricercatore presso la Fondazione Italiana Sclerosi Multipla (FISM) • 2017-2019: Titolare di una borsa di studio finanziata da FISM e svolta presso il Dipartimento di Medicina Sperimentale dell'Università degli Studi di Genova dal titolo "Behavioural and neural correlates of dual tasks negotiation in ecological setting: an fNIRS study to investigate cognitive-motor interference after rehabilitation in people with multiple sclerosis" • 2008: Fisioterapista presso la Fondazione Giovanni e Ottavia Ferrero, Vado Ligure (SV)
CORSI DI AGGIORNAMENTO PROFESSIONALE (allegare eventuale Portfolio di formazione aziendale)	CORSI EROGATI IN QUALITÀ DI DOCENTE <ul style="list-style-type: none"> • Stabilometria nella sclerosi multipla: dalla valutazione alla misura di outcome, FISM, 2022 • Medicina digitale e teleriabilitazione durante ed oltre l'emergenza sanitaria: focus su patologie neurologiche, FISM, 2021 • Recenti acquisizioni nella sclerosi multipla: le tecnologie ambulatoriali e domiciliari per il trattamento riabilitativo della SM, FISM, 2019 • Misure di outcome per la sclerosi multipla: corso di aggiornamento per operatori, FISM, 2019 • La riabilitazione cognitiva ed in dual-task nella SM, FISM, 2018 • Recenti acquisizioni nella sclerosi multipla, FISM, 2018 • Ricerca nella SM: le tecnologie al servizio della riabilitazione, FISM, 2017

ATTIVITÀ SCIENTIFICA

AUTORE/COAUTORE DELLE SEGUENTI PUBBLICAZIONI (ARTICOLI SCIENTIFICI)	<ol style="list-style-type: none"> 1. Podda J, Tacchino A, Pedullà L, Monti Bragadin M, Battaglia MA, Bricchetto G, Ponzio M. Mind wandering in people with Multiple Sclerosis: A psychometric study. <i>Mult Scler Relat Disord.</i> 2022 Feb;58:103521. doi: 10.1016/j.msard.2022.103521. 2. Zuber P, Gaetano L, Griffa A, Huerbin M, Pedullà L, Bonzano L, Altermatt A, Tsagkas C, Parmar K, Hagmann P, Wuerfel J, Kappos L, Sprenger T, Sporns O, Magon S. Additive and interaction effects of working memory and motor sequence training on brain functional connectivity. <i>Sci Rep.</i> 2021 Nov 29;11(1):23089. 3. Bonzano L, Bisio A, Pedullà L, Bricchetto G, Bove M. Right Inferior Parietal Lobule Activity Is Associated With Handwriting Spontaneous Tempo. <i>Front Neurosci.</i> 2021 Jun 9;15:656856. 4. Bortoletto M, Bonzano L, Zazio A, Ferrari C, Pedullà L, Gasparotti R, Miniussi C, Bove M. Asymmetric transcallosal conduction delay leads to finer bimanual coordination. <i>Brain Stimul.</i> 2021 Mar-Apr;14(2):379-388. 5. Podda J, Ponzio M, Pedullà L, Monti Bragadin M, Battaglia MA, Zaratin P, Bricchetto G, Tacchino A. Predominant cognitive phenotypes in multiple sclerosis: Insights from patient-
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- centered outcomes. *Mult Scler Relat Disord*. 2021 Mar 21;51:102919.
6. Prada V, Tacchino A, Podda J, Pedullà L, Konrad G, Battaglia MA, Bricchetto G, Monti Bragadin M. Mam36 and Abilhand as outcome measures of multiple sclerosis hand disability: an observational study. *Eur J Phys Rehabil Med*. 2020 Dec 11.
 7. Podda J, Tacchino A, Pedullà L, Monti Bragadin M, Battaglia MA, Bricchetto G. Focus on neglected features of cognitive rehabilitation in MS: Setting and mode of the treatment. *Mult Scler*. 2020 Oct 13:1352458520966300.
 8. Podda J, Ponzio M, Messmer Uccelli M, Pedullà L, Bozzoli F, Molinari F, Monti Bragadin M, Battaglia MA, Zaratini P, Bricchetto G, Tacchino A. Predictors of clinically significant anxiety in people with multiple sclerosis: A one-year follow-up study [published online ahead of print, 2020 Jul 22]. *Mult Scler Relat Disord*.
 9. Pedullà L, Tacchino A, Podda J, Bragadin MM, Bonzano L, Battaglia MA, Bove M, Bricchetto G, Ponzio M. The patients' perspective on the perceived difficulties of dual-tasking: development and validation of the Dual-task Impact on Daily-living Activities Questionnaire (DIDA-Q). *Mult Scler Relat Disord*. 2020 Nov;46:102601
 10. Pedullà L, Gervasoni E, Bisio A, Biggio M, Ruggeri P, Avanzino A, Bove M. The last chance to pass the ball: investigating the role of temporal expectation and motor resonance in processing temporal errors in motor actions. *Soc Cogn Affect Neurosci*. 2020 Jan 30;15(1):123-134.
 11. Podda J, Pedullà L, Monti Bragadin M, Piccardo E, Battaglia MA, Bricchetto G, Bove M, Tacchino A. Spatial constraints and cognitive fatigue affect motor imagery of walking in people with multiple sclerosis. *Sci Rep*. 2020 Dec 14;10(1):21938.
 12. Tacchino A, Ponzio M, Pedullà L, et al. Italian validation of the Arm Function in Multiple Sclerosis Questionnaire (AMSQ). *Neurol Sci*. 2020 Nov;41(11):3273-3281.
 13. Canepa P*, Pedullà L*, Bisio A, Ruggeri P, Bove M. Is the 12 minute-walk/run test a predictive index of cognitive fitness in young healthy individuals? A pilot study on aerobic capacity and working memory in a real-life scenario. *Neurosci Lett*. 2020;728:134983.
 14. Bricchetto G, Monti Bragadin M, Fiorini S, Battaglia MA, Konrad G, Ponzio M, Pedullà L, Verri A, Barla A, Tacchino A. The hidden information in patient-reported outcomes and clinician-assessed outcomes: multiple sclerosis as a proof of concept of a machine learning approach. *Neurol Sci*. 2020;41(2):459–462
 15. Bricchetto G, Pedullà L, Podda J, Tacchino J. Beyond center-based testing: Understanding and improving functioning with wearable technology in MS. *Mult Scler*. 2019;25(10):1402–1411.
 16. Bonzano L, Pedullà L, Tacchino A, Bricchetto G, Battaglia MA, Mancardi GL, Bove M. Upper limb motor training based on task-oriented exercises induces functional brain reorganization in patients with multiple sclerosis. *Neurosci*. 2019;410:150-159.
 17. Bonzano L*, Pedullà L*, Pardini M, Tacchino A, Zaratini P, Battaglia MA, Bricchetto G, Bove M. Brain activity pattern changes after adaptive working memory training in multiple sclerosis. *Brain imaging behav*. 2018;Oct30:1-13.
 18. Crivelli D*, Pedullà L*, Bisio A, Rueda S, Bricchetto G, Bove M, Balconi M. When

	<p>“Extraneous” Becomes “Mine”. Neurophysiological Evidence of Sensorimotor Integration During Observation of Suboptimal Movement Patterns Performed by People with Multiple Sclerosis. <i>Neurosci.</i> 2018;386:326-338.</p> <p>19. Bisio A, Pedullà L, Bonzano L, Tacchino A, Bricchetto G, Bove M. The kinematics of handwriting movements as expression of cognitive and sensorimotor impairments in people with multiple sclerosis. <i>Sci Rep.</i> 2017;7(1):17730.</p> <p>20. Bisio A, Pedullà L, Bonzano L, Ruggeri P, Bricchetto G, Bove M. Evaluation of Handwriting Movement Kinematics: From an Ecological to a Magnetic Resonance Environment. <i>Front Hum Neurosci.</i> 2016;10:488.</p> <p>21. Pedullà L, Bricchetto G, Tacchino A, Vassallo C, Zaratini P, Battaglia MA, Bonzano L, Bove M. Adaptive vs. non-adaptive cognitive training by means of a personalized App: a randomized trial in people with multiple sclerosis. <i>J Neuroeng Rehabil.</i> 2016;13(1):88.</p> <p>22. Tacchino A*, Pedullà L*, Bonzano L, Vassallo C, Battaglia MA, Mancardi G, Bove M, Bricchetto G. A New App for At-Home Cognitive Training: Description and Pilot Testing on Patients with Multiple Sclerosis. <i>JMIR Mhealth Uhealth.</i> 2015;3(3):e85.</p> <p>23. Bricchetto G, Piccardo E, Pedullà L, Battaglia MA, Tacchino A. Tailored balance exercises on people with multiple sclerosis: A pilot randomized, controlled study. <i>Mult Scler.</i> 2015;21(8):1055-63.</p> <p>24. Tacchino A, Bove M, Pedullà L, Battaglia MA, Papaxanthis C, Bricchetto G. Imagined actions in multiple sclerosis patients: evidence of decline in motor cognitive prediction. <i>Exp Brain Res.</i> 2013;229(4):561-70.</p>
<p>CONGRESSI</p>	<p>CONGRESSI IN QUALITÀ DI RELATORE</p> <ul style="list-style-type: none"> • Pedullà L, Bozzoli F, Molinari F, Podda J, Falautano M, Confalonieri P, Korn D, Battaglia MA, Ponzio M, Bricchetto G, Zaratini P. Co-creating new patient-reported outcomes through the science with and of patient input: characterization of mood status in people with multiple sclerosis. <i>ECTRIMS 2021</i>, virtual edition. • Pedullà L, Bozzoli F, Molinari F, Podda J, Falautano M, Confalonieri P, Korn D, Battaglia MA, Graffigna G, Ponzio M, Bricchetto G, Zaratini P. How to measure the impact of mood on people with MS' daily life? A multi-stakeholder approach to co-create a new patient reported outcome. <i>RIMS</i>, virtual edition • Pedullà L, Bonzano L, Bisio A, Job M, Tacchino A, Bricchetto G, Bove M. Cognitive-motor Interference in People with Multiple Sclerosis: the Influence of Curvilinear Walking and Fatigue. <i>10th International Symposium on Gait and Balance in Multiple Sclerosis</i>, virtual. • Pedullà L, Rinaldi S, Addeo S, Cooper J, Chioffi M, Bellosta A, Battaglia MA, Monti Bragadin M, Podda J, Tacchino A, Bricchetto G, Konrad G.. Aerobic training in multiple sclerosis: a pilot study on the effects of group treatment with mini-trampolines. <i>RIMS 2020</i>, Leuven, Belgio. • Pedullà L, Addeo S, Rinaldi S, Chioffi M, Bellosta A, Battaglia MA, Monti Bragadin M, Podda J, Tacchino A, Bricchetto G, Konrad G. Aerobic training in multiple sclerosis: a pilot study on the effects of music during group treatment. <i>RIMS 2020</i>, Leuven, Belgio.

- Pedullà L, Bonzano L, Bisio A, Job M, Tacchino A, Podda J, Brichetto G, Bove M. Neural correlates of cognitive-motor dual tasks in multiple sclerosis: an fNIRS study. ECTRIMS 2019, Stockholm, Sweden.
- Pedullà L, Bove M, Bergamaschi R, Correale L, Brichetto G. Ride the wave: an explorative investigation on the perspective of people with multiple sclerosis about sports activity. RIMS 2019, Lubiana, Slovenia.
- Pedullà L, Bonzano L, Bisio A, Job M, Tacchino A, Brichetto G, Bove M. Effects of curvilinear walking and cognitive-motor dual tasks on motor performance and cortical activity in people with multiple sclerosis. RIMS 2019, Lubiana, Slovenia.
- Pedullà L, Bisio A, Biggio M, Parodi F, Travali A, Cesaroni G, Tacchino A, Brichetto G, Bove M. Investigating and enhancing the effect of rehabilitation in real life with a new sensorized prosthetic aid: a study in people with multiple sclerosis. Workshop “Innovation In Rehabilitation Technologies” 2019, Genoa, Italy.
- Pedullà L, Bisio A, Bonzano L, Dessypris A, Faelli E, et al. Aerobic training as substrate for neural plastic changes in multiple sclerosis. RIMS 2018, Amsterdam, Netherland.
- Pedullà L, Ponzio M, Tacchino A, Battaglia MA, Bove M, Brichetto G. Development and validation of the “Dual-task Impact on Daily-life Activities Questionnaire”: preliminary evaluation in people with multiple sclerosis. RIMS 2018, Amsterdam, Netherland
- Pedullà L, Bonzano L, Bisio A, Job M, Brichetto G, Bove M. Neural correlates of dual task cost in ecological settings: preliminary results in healthy subjects of an fNIRS study. RIMS “Special Interest Group mobility”, Glasgow, UK.
- Pedullà L, Bisio A, Bonzano L, Canepa P, Adascalitei S, Brichetto G, Bove M. Cognitive cost and brain activity during dual tasks: an fNIRS study in young adults. SISMeS 2018, Messina, Italy
- Pedullà L, Bisio A, Bonzano L, Tacchino A, Bove M, Brichetto G. Developing an integrated core set for the evaluation of handwriting movement in people with multiple sclerosis. RIMS 2017, Barcelona, Spain.
- Pedullà L, Brichetto G, Tacchino A, Bonzano L, Bove M. Adaptive working memory training improves cognitive performance and affects brain functional reorganization in people with multiple sclerosis. RehabWeek 2017, London, UK.
- Pedullà L, Bisio A, Bonzano L, Tacchino A, Brichetto G, Bove M. Integrated assessment of handwriting movement in people with multiple sclerosis. ECTRIMS-RIMS 2016, London, UK.
- Pedullà L, Tacchino A, Vassallo C, Bonzano L, Battaglia MA, Bove M, Brichetto G. Adaptive vs non-adaptive cognitive rehabilitation training based on working memory: effects on people with multiple sclerosis. RIMS 2015, Milano, Italy
- Pedullà L, Bisio A, Avanzino L, Tacchino A, Brichetto G, Bove M. Corticospinal excitability during action observation is affected by the fluency of the observed movement. Neuroscience - SfN 2015, Chicago, USA.
- Pedullà L, Tacchino A, Vassallo C, Bonzano L, Battaglia MA, Bove M, Brichetto G.

Riabilitazione cognitiva nella sclerosi multipla: un trattamento personalizzato intensivo a domicilio tramite un'Applicazione per tablet non commerciale. Congresso Nazionale della Società Italiana di Riabilitazione Neurologica - SIRN 2014, Genova, Italy.

- Pedullà L, Tacchino A, Vassallo C, Bonzano L, Battaglia MA, Bove M, Bricchetto G. Home-based personalized cognitive training with a customized tablet application in people with multiple sclerosis. Rehabilitation in Multiple Sclerosis - RIMS 2014, Brighton, UK.
- Pedullà L, Tacchino A, Vassallo C, Bonzano L, Battaglia MA, Bove M, Bricchetto G. A new tool for personalized at-home intensive cognitive rehabilitation. Gruppo Nazionale di Bioingegneria - GNB 2014, Pavia, Italy.
- L. Pedullà, E. Piccardo, M.A. Battaglia, A. Tacchino, G. Bricchetto. Tailored balance exercises for people with multiple sclerosis: a pilot randomized controlled study. ECTRIMS/RIMS 2013, Copenhagen, Denmark.