

CURRICULUM VITAE

INFORMAZIONI PERSONALI

Nome	Federico Temporiti
Nazionalità	Italiana
Data di nascita	12 Dicembre 1991

ESPERIENZA LAVORATIVA

- Data **Da Ottobre 2020 ad oggi**
- Nome e indirizzo del datore di lavoro Corso di Laurea in Fisioterapia, Humanitas University
Pieve Emanuele, MI, Italia
- Tipo di azienda o settore Università
- Principali mansioni Coordinatore delle attività didattiche e professionalizzanti del Corso di Laurea in Fisioterapia
Adjunct Professor per l'insegnamento di Fisioterapia dei disturbi muscoloscheletrici e di Cinesioterapia applicata alla clinica e Journal Club presso il Corso di Laurea in Fisioterapia
- Data **Da Settembre 2018 a Settembre 2020**
- Nome e indirizzo del datore di lavoro Corso di Laurea in Fisioterapia, Humanitas University
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- Tipo di azienda o settore Università
- Principali mansioni Tutor didattico Corso di Laurea in Fisioterapia
Adjunct Professor per l'insegnamento di Fisioterapia dei disturbi muscoloscheletrici e di Cinesioterapia applicata alla clinica presso il Corso di Laurea in Fisioterapia

- Data **Da Settembre 2017 ad oggi**
- Nome e indirizzo del datore di lavoro Laboratorio di Analisi del Movimento, Istituto Clinico Humanitas
Rozzano, MI, Italia
- Tipo di azienda o settore Istituto di Ricerca e Cura a Carattere Scientifico
- Principali mansioni Attività di ricerca scientifica negli ambiti dell'utilizzo di facilitazioni cognitive (es. Mirror Neuron System based approaches) in riabilitazione, della biomeccanica articolare e dei disordini neuromuscolari in patologie del sistema muscoloscheletrico e dopo chirurgia ortopedica presso il Laboratorio di Analisi del Movimento – ICH (direttore: prof. Roberto Gatti)

- Data **Da Febbraio 2015 ad oggi**
- Nome e indirizzo del datore di lavoro Servizio di Fisioterapia, Istituto Clinico Humanitas
Rozzano, MI, Italia
- Tipo di azienda o settore Istituto di Ricerca e Cura a Carattere Scientifico
- Principali mansioni Fisioterapista

ISTRUZIONE E FORMAZIONE

- Data **Da Febbraio 2020 ad oggi**
- Nome e tipo di istituto di istruzione Politecnico di Milano
Milano, Italia
- Qualifica PhD in Bioengineering
- Data **Da Novembre 2017 a Novembre 2019**
- Nome e tipo di istituto di istruzione Università Vita-Salute San Raffaele
Milano, Italia
- Qualifica conseguita Laurea Magistrale in Scienze Riabilitative delle Professioni Sanitarie
- Data **Da Ottobre 2011 a Novembre 2014**
- Nome e tipo di istituto di istruzione Università Vita-Salute San Raffaele
Milano, Italia
- Qualifica conseguita Laurea in Fisioterapia

•Data	Da Settembre 2005 a Luglio 2010
• Nome e tipo di istituzione	Liceo Scientifico Donato Bramante
• Qualifica conseguita	Magenta MI, Italia

ATTIVITÀ SCIENTIFICA

Publicazioni scientifiche su riviste indicizzate (SCOPUS)

Temporiti F, Galbiati E, Bianchi F, Bianchi AM, Galli M, Gatti R. Early sleep after action observation plus motor imagery improves gait and balance abilities in older adults. *Sci Rep.* 2024 Feb 7;14(1):3179.

Coelli S, Calcagno A, Cassani CM, **Temporiti F**, Reali P, Gatti R, Galli M, Bianchi AM. Selecting methods for a modular EEG pre-processing pipeline: An objective comparison. *Biomedical Signal Processing and Control*, 2024, 90, 105830.

Adamo P, **Temporiti F**, Maffeis M, Bolzoni F, Gatti R. Reliability of Shoulder Helical Axes During Intransitive and Transitive Upper Limb Tasks. *J Appl Biomech.* 2023 Sep 28;39(6):440-445.

Temporiti F, Moro S, Adamo P, Gatti R. Joint pressure stimuli increase quadriceps strength and neuromuscular activity in patients with knee osteoarthritis. *J Electromyogr Kinesiol.* 2023 Dec;73:102814.

Agnelli M, Libeccio B, Frisoni MC, Bolzoni F, **Temporiti F**, Gatti R. Action observation plus motor imagery and somatosensory discrimination training are effective non-motor approaches to improve manual dexterity. *J Hand Ther.* 2024 Jan-Mar;37(1):94-100.

Bolzoni F, Montanari B, Farinelli V, Adamo P, **Temporiti F**, Marino G, Fesce R, Gatti R. Motor resonance to non-visible postural adaptation: A novel aspect of the mirror mechanism. *Eur J Neurosci.* 2023 Jul;58(2):2515-2522.

Temporiti F, Adamo P, Mandelli A, Buccolini F, Viola E, Aguzzi D, Gatti R, Barajon I. Test-retest reliability of a photographic marker-based system for postural examination. *Technol Health Care.* 2023;31(4):1153-1160.

Merletti R, **Temporiti F**, Gatti R, Gupta S, Sandrini G, Serrao M. Translation of surface electromyography to clinical and motor rehabilitation applications: The need for new clinical figures. *Transl Neurosci.* 2023 Mar 14;14(1):20220279.

Temporiti F, Scandelli F, Mellina Gottardo F, Falco M, Rossi S, Adamo P, Gatti R. Balance improvements in healthy subjects are independent to postural strategies involved in the training. *Gait Posture.* 2023 Mar;101:160-165.

Temporiti F, Calcagno A, Coelli S, Marino G, Gatti R, Bianchi AM, Galli M. Early sleep after action observation and motor imagery training boosts improvements in manual dexterity. *Sci Rep.* 2023 Feb 14;13(1):2609.

Temporiti F, De Leo D, Adamo P, Papa G, Traverso F, Maffiuletti NA, Gatti R. Impaired modulation of motor and functional performance in patients after total knee arthroplasty: a prospective observational study. 2022. *Biomed Res Int*. In press.

Temporiti F, Ruspi A, De Leo D, Ugolini A, Grappiolo G, Avanzini P, Rizzolatti G, Gatti R. Action Observation and Motor Imagery administered the day before surgery enhance functional recovery in patients after total hip arthroplasty: A randomized controlled trial. *Clin Rehabil*. 2022 Jul 26;2692155221116820.

Adamo P, Oddenino F, De Leo D, Agnelli M, Cescon C, **Temporiti F**, Gatti R. Dispersion of Knee Helical Axes during Walking after Maximal versus Resistant Strength Training in Healthy Subjects. *Applied Sciences*, 2022; 12(12)5850.

Temporiti F, Ferrari S, Kieser M, Gatti R. Efficacy and characteristics of physiotherapy interventions in patients with lumbar spinal stenosis: a systematic review. *Eur Spine J*. 2022 Jun;31(6):1370-1390.

Ruspi A, **Temporiti F**, Adamo P, Mina F, Traverso F, Gatti R. Neuromuscular activation of quadriceps bellies during tasks performed in the same biomechanical condition in patients undergoing total knee arthroplasty. *J Electromyogr Kinesiol*. 2022 Jun;64:102659.

Temporiti F, Mandaresu S, Calcagno A, Coelli S, Bianchi AM, Gatti R, Galli M. Kinematic evaluation and reliability assessment of kinematic indexes during the Nine Hole Peg Test for manual dexterity. *J Hand Therapy*. 2022. Article in press.

Vagnini A, Furone R, Zanotti G, Adamo P, **Temporiti F**, Gatti R. Agreement between the inertial measurement unit and optoelectronic system to measure postural sway. *Technol Health Care*. 2021. Article in press.

Adamo P, **Temporiti F**, Natali F, Trombin S, Cescon C, Barbero M, Gatti R. Dispersion of shoulder helical axes during upper limb movements after muscle fatigue. *J Biomech*. 2020. 2;113:110075.

Temporiti F, Adamo P, Cavalli E, Gatti R. Efficacy and characteristics of the stimuli of Action observation therapy in subjects with Parkinson's Disease: A systematic review. *Front. Neurology*. 2020. 13:1:808.

Temporiti F, Cescon C, Adamo P, Natali F, Barbero M, De Capitani F, Gatti R. Dispersion of knee helical axes during walking in young and elderly subjects. *J Biomech*. 2020. 26;109:109944.

Ruggiero G, **Temporiti F**, Zanotti G, Borroni M, Delle Rose G, Castagna A, Gatti R. Association among patient satisfaction, functional outcomes, and physiotherapy approaches after arthroscopic rotator cuff repair, *Journal of Arthroscopy and Joint Surgery*. 2020; 7(2):78-81.

Loppini M, **Temporiti F**, Furone R, Galli M, Grappiolo G, Gatti R. Static and dynamic pelvic kinematics after one-stage bilateral or unilateral total hip arthroplasty. *Hip Int*. 2020. May 4:1120700020921120.

Temporiti F, Draghici I, Fusi S, Traverso F, Ruggeri R, Grappiolo G, Gatti R. Does walking the day of total hip arthroplasty speed up functional independence? A non-randomized controlled study. *Arch. Physioth*. 2020. Apr 24;10:8

Temporiti F, Zanotti G, Furone R, Loppini M, Molinari S, Zago M, Galli M, Grappiolo G, Gatti R. Functional and postural recovery after bilateral or unilateral total hip arthroplasty. *J Electromyogr Kinesiol.* 2019 Oct;48:205-211.

Temporiti F, Zanotti G, Furone R, Molinari S, Zago M, Loppini M, Galli M, Grappiolo G, Gatti R. Gait analysis in patients after bilateral versus unilateral total hip arthroplasty. *Gait Posture.* 2019 Jul;72:46-50.

Temporiti F, Furone R, Cescon C, Barbero M, Gatti R. Dispersion of shoulder helical axes during upper limb movements in young and elderly subjects. *J Biomech.* 2019. May 9;88:72-77.

Sarasso E, Agosta F, **Temporiti F**, Adamo P, Piccolo F, Copetti M, Gatti R, Filippi M. Brain motor functional changes after somatosensory discrimination training. *Brain Imaging Behav.* 2018. Aug;12(4):1011-1021

Conference papers a congressi internazionali (SCOPUS)

Temporiti F, Calcagno A, Coelli S, Marino G, Gatti R, Bianchi AM, Galli M. Association Between Variations in Kinematic Indexes of Manual Dexterity and Mu Rhythm Desynchronization Changes After Action Observation and Motor Imagery. *IFMBE Proceedings, 2024*, 94:277–285.

Calcagno A, Coelli S, **Temporiti F**, Gatti R, Galli M, Bianchi AM. Handedness-Dependent Brain Networks Re-organization During Visuo-Motor Task Execution. *IFMBE Proceedings, 2024*, 94: 286–291.

Calcagno A, Coelli S, **Temporiti F**, Galli M, Gatti R, Bianchi AM. Differences in cortical reorganization during visuo-motor tasks executed with the dominant and non-dominant hands. *Convegno Nazionale di Bioingegneria, 2023*

Cassani CM, Coelli S, Calcagno A, **Temporiti F**, Mandaresu S, Gatti R, Galli M, Bianchi AM. Selecting a pre-processing pipeline for the analysis of EEG event-related rhythms modulation. *Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBS, 2022*, 2022-July: 4044–4047.

Calcagno A, Coelli S, **Temporiti F**, Mandaresu S, Gatti R, Galli M, Bianchi AM. Action Observation Therapy Before Sleep Hours: An EEG Study. *Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBS, 2022*, 2022-July: 4809–4812.

Abstracts a congressi internazionali

Temporiti F, Calcagno A, Coelli S, Marino G, Bianchi AM, Galli M, Gatti R. Early sleep after action observation training boosts improvements in manual dexterity. *World Physiotherapy Congress, Dubai, June 2023.*

Temporiti F, Moro S, Adamo P, Gatti R. Knee joint pressure stimulation improves quadriceps strength and neuromuscular activity in patients with end-stage knee osteoarthritis. *World Physiotherapy Congress, Dubai, June 2023.*

Agnelli M, Libeccio B, Frisoni MC, **Temporiti F**, Gatti R. Action Observation plus Motor Imagery and Somatosensory Discrimination Training are effective non-motor strategies to improve manual dexterity. World Physiotherapy Congress, Dubai, June 2023.

Picardi M, **Temporiti F**, Salamone C, Tropea P, Buccino G, Corbo M, Gatti R. Effects of Action Observation Therapy on gait and balance impairments: a systematic review and meta-analysis. World Physiotherapy Congress, Dubai, June 2023.

Bolzoni F, Montanari B, Farinelli V, Adamo P, **Temporiti F**, Fesce R, Gatti R. Postural Motor Resonance: a new function of the mirror neuron system. World Physiotherapy Congress, Dubai, June 2023.

Marino G, **Temporiti F**, De Capitani F, Bolzoni L, Gatti R. Long-term gait analysis in patients after total knee arthroplasty: a systematic review and meta-analysis. World Physiotherapy Congress, Dubai, June 2023.

Calcagno A, Coelli S, **Temporiti F**, Mandaresu S, Gatti R, Galli M, Bianchi AM. Effects of Action Observation Therapy before sleep hours: an EEG study. CuttingEEG International Conference, Aix-en-Provence, France. 2022.

Temporiti F, Mandaresu S, Calcagno A, Coelli S, Monfardini E, Lozza I, Gatti R, Bianchi AM, Galli M. Validity and reliability of kinematic indexes during Nine Hole Peg Test for manual dexterity assessment. European Society of Biomechanics (ESB) Congress, July 2021

Temporiti F, Vagnini A, Furone R, Zanotti G, Galli M, Gatti R. Accuracy of inertial sensor in the analysis of center of mass displacement. European Society of Biomechanics (ESB) Congress, July 2021.

Gatti R, **Temporiti F**, Pierini S, Bernardini B, Respizzi S, Pini D. Predictors of functional recovery in patients hospitalized for Covid-19 infection. World Physiotherapy Congress 2021, Online event.

Ruspi A, Mina F, Adamo P, **Temporiti F**, Maffiuletti NA, Gatti R. Task-dependent quadriceps neuromuscular activity in patients after total knee arthroplasty. World Physiotherapy Congress 2021, Online event.

Temporiti F, De Leo D, Adamo P, Papa G, Traverso F, Maffiuletti NA, Gatti R. Performane modulation of motor and functional tasks in patients after total knee arthroplasty. World Physiotherapy Congress 2021, Online event.

Temporiti F, Cescon C, Adamo P, Natali F, Barbero M, De Capitani F, Gatti R. Dispersion of knee helical axes during walking in young and elderly subjects. World Physiotherapy Congress 2021, Online event.

Temporiti F, Adamo P, Cavalli E, Gatti R. Efficacy and characteristics of the stimuli of Action observation therapy in subjects with Parkinson's Disease: A systematic review. World Physiotherapy Congress 2021, Online event.

Adamo P, **Temporiti F**, Natali F, Trombin S, Cescon C, Barbero M, Gatti R. Dispersion of shoulder helical axes during upper limb movements after muscle fatigue. World Physiotherapy Congress 2021, Online event.

Temporiti F, Draghici I, Fusi S, Traverso F, Ruggeri R, Grappiolo G, Gatti R. Effects of mobilization and walking on the same day of total hip arthroplasty in speeding up functional recovery, World Confederation for Physical Therapist Congress 2019, Geneve.

Temporiti F, Zanotti G, Furone R, Barbaglia A, Grappiolo G, Loppini M, Gatti R. Gait analysis after bilateral or unilateral total hip arthroplasty. World Confederation for Physical Therapist Congress 2019, Geneve.

Temporiti F, Zanotti G, Furone R, Barbaglia A, Grappiolo G, Loppini M, Gatti R. Postural and functional performance after bilateral or unilateral total hip arthroplasty. World Confederation for Physical Therapist Congress 2019, Geneve.

Temporiti F, Cescon C, Furone R, Barbero M, Gatti R. Dispersion of helical axes during shoulder movements in young and elderly subjects. World Confederation for Physical Therapist Congress 2019, Geneve.

Furone R, Vagnini A, Zanotti G, **Temporiti F**, Gatti R. Accuracy of inertial sensor in the analysis of center of mass displacement. World Confederation for Physical Therapist Congress 2019, Geneve.

Temporiti F, Furone R, Loppini M, Gandolfi C, Grappiolo G, Gatti R. Postural performance after bilateral or unilateral total hip arthroplasty. International Society of Electromyography and Kinesiology, Dublin, July 2018

Cescon C, Furone R, **Temporiti F**, Barbero M, Gatti R. Evaluation of shoulder stability in young and elderly subjects with helical axis technique. International Society of Electromyography and Kinesiology, Dublin, July 2018

Sarasso E, Agosta F, Adamo P, **Temporiti F**, Falini A, Gatti R, Filippi M. Brain functional changes after a somatosensory discrimination training in healthy young subjects. American Academy of Neurology 67th Annual Meeting, Washington, USA, 18-25 April 2015.

Autorizzo il trattamento dei dati personali contenuti nel Curriculum Vitae in base art. 13 del D. Lgs. 196/2003. Il sottoscritto è a conoscenza che ai sensi dell'art. 76 del DPR 445/2000, le dichiarazioni mendaci, la falsità negli atti e l'uso di atti falsi sono puniti ai sensi del codice penale e delle leggi speciali.

Milano, 20-03-24

Federico Temporiti