

PERSONAL INFORMATION

Name **PSICHE GIANNONI**
Date of birth

EDUCATION AND TRAINING

2021	1977-	Basic and Advanced level Instructor, European Bobath Tutor Association (E.B.T.A.), The Bobath Centre for Children with Cerebral Palsy, 250 East End Rd, London N2 8AU (GB);
1997	1984-	Basic and Advanced level Instructor, International Bobath Instructors Training Association (I.B.I.T.A.), Sankt Gallen (CH);
1967		University Degree in Physiotherapy (equivalent title to Degrees in Health Professions of Rehabilitation L/SNT2), Univ. of Genova, DINOEMI (IT).

WORK EXPERIENCE

As Teacher

1977-2021

Several post graduate courses for Physiotherapists and Medical Doctors on Rehabilitation approaches and other specific topics:

2021: Fondazione Santa Lucia, IRCCS, Roma;

2021: SUPSI, Scuola Universitaria Professionale della Svizzera Italiana, Lugano;

2021: provider Rosa d'Eventi, Genova.

1994-2019

Teaching Director and Scientific Coordinator of ART Education and Rehabilitation Centre, pz. Borgo Pila 40/36, 16129 Genova (IT);

1991-2017

Teacher professor at the School of Physiotherapy of the University of Genoa, DINOEMI, via De Toni 5, 16148 Genova (IT).

As Researcher

2019-2021

External professional collaboration assignment, Univ. of Genova, DIBRIS. Subject: Technology for the evaluation and treatment of somato-sensorial and motor deficits;

2014-2021

"Cultore della Materia" and Research Collaborator (MA Medical Robotics and Rehabilitation Engineering), Univ. of Genova (IT);

1981-1983

Collaboration with the Bioengineering Center of the Univ. of Genova, c/o La Colletta Hospital, Arenzano (GE), IT;

1981-1993

Member of the operating group C.Li.V.I.A. of Genova, Handynet project, S.I.V.A. Milano (IT);

1977-1996

Collaboration with DIST, Univ. of Genova, in numerous research projects.

As

Physiotherapist

2019	1994-	Physiotherapy and Counselling: ART Education and Rehabilitation Centre, pz. Borgo Pila 40/36, 16129 Genova (IT);
1993	1981-	A.S.L. 3 (Health National Service) of Genova, Rehabilitation Unit;

MOTHER LANGUAGE	ITALIAN
OTHER LANGUAGES	
	ENGLISH
• Reading skills	VERY GOOD
• Writing skills	VERY GOOD
• Verbal skills	VERY GOOD
	FRENCH
• Reading skills	VERY GOOD
• Writing skills	GOOD
• Verbal skills	GOOD
	GERMAN
• Reading skills	GOOD
• Writing skills	GOOD
• Verbal skills	GOOD

PUBLICATIONS

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BOOKS

01. Giannoni P, Zerbino L (eds) "Cerebral Palsy: A Practical Guide for Rehabilitation Professionals", ISBN: 9783030856182, doi: 10.1007/978-3-030-85619-9, Springer Int. Publ., 2022.
02. Giannoni P, Zerbino L, "Fuori Schema. Manuale per il trattamento delle paralisi cerebrali infantili", ed. Springer Italia, 2000.

SCIENTIFIC PAPERS (selected 2021-2006)

01. Ballardini G, Krueger A, Giannoni P, Marinelli L, Casadio M, Scheidt RA. Effect of Short-Term Exposure to Supplemental Vibrotactile Kinesthetic Feedback on GoalDirected Movements after Stroke: A Proof of Concept Case Series. *Sensors* (Basel). 2021;21(4):1519. doi:10.3390/s21041519
02. Pellegrino L, Coscia M, Pierella C, Giannoni P, Cherif A, Mugnosso M, Marinelli L, Casadio M. Effects of Hemispheric Stroke Localization on the Reorganization of Arm Movements within Different Mechanical Environments. *Life* (Basel). 2021 Apr 23;11(5):383. doi: 10.3390/life11050383.
03. Tacchino C, Impagliazzo M, Maggi E, Bertamino M, Bianchi I, Campone F, Durand P, Fato M, Giannoni P, Iandolo R, Izzo M, Morasso P, Moretti P, Ramenghi L, Shima K, Shimatani K, Tsuji T, Uccella S, Zanardi N, Casadio M (2021) Spontaneous movements in the newborns: a tool of quantitative video analysis of preterm babies. *Comput Methods Programs Biomed.* 2021 Feb;199:105838.
04. Iandolo R, Carè M, Shah VA, Schiavi S, Bommarito G, Boffa G, Giannoni P, Inglese M, Mrotek LA, Scheidt RA & Casadio M, A two alternative forced choice method for assessing vibrotactile discrimination thresholds in the lower limb, *Somatosensory & Motor Research*, 2019.
05. Coscia M, Pellegrino L, Pierella C, Pirondini E, Kinany N, Miehlabradt J, Magnin C, Nicolo P, Giannoni P, Marinelli L, Guggisberg A, Casadio M, Micera S (2019) Training Muscle Synergies to Relearn Movement: Current Perspectives and Future Trends. In: Masia L., Micera S., Akay M., Pons J. (eds) *Converging Clinical and Engineering*

Research on Neurorehabilitation III. ICNR 2018. Biosystems & Biorobotics, vol 21. Springer, Cham. https://doi.org/10.1007/978-3-030-01845-0_45

06. Ballardini G, Carlini G, Giannoni P, Scheidt RA, Nisky I, Casadio M (2018), TactileSTAR: A Novel Tactile Stimulator And Recorder System for Evaluating and Improving Tactile Perception, *Front. Neurobot.*, 2018 April 6;12:12.
07. De Luca A, Verneti H, Capra C, Pisu I, Cassiano C, Barone L, Gaito F, Danese F, Antonio Checchia G, Lentino C, Giannoni P, Casadio M. (2018), Recovery and compensation after robotic assisted gait training in chronic stroke survivors, *Disabil Rehabil Assist Technol.* 2018 May 9:1-13.
08. De Luca A, Giannoni P, Verneti H, Capra C, Lentino C, Checchia GA, Casadio M, (2017), Training the Unimpaired Arm Improves the Motion of the Impaired Arm and the Sitting Balance in Chronic Stroke Survivors, *IEEE Trans Neural Syst Rehabil Eng.* 2017 Jul;25(7):873-882.
09. Pellegrino L, Giannoni P, Marinelli L, Casadio M (2017), Effects of continuous visual feedback during sitting balance training in chronic stroke survivors, *J Neuroeng Rehabil.* 2017, 14:107
10. Maggi E, Impagliazzo M, Minnella A, Zanardi N, Izzo M, Campone F, Bianchi I, Tacchino C, Shimatani K, Shima K, Tsuji T, Giannoni P, Fato MM, Morasso P, Casadio M, Ramenghi L, Moretti P (2017), A new method for early detection of infants at risk of long-term neuromotor disabilities, *Gait & Posture* 57:23-24, September 2017.
11. Shima K, Shimatani K, Sato G, Sakata M, Giannoni P, Morasso P. (2017), A fundamental study on how holding a helium-filled balloon affects stability in human standing, *IEEE Int Conf Rehabil Robot.* 2017 Jul;2017:1061-1066
12. Krüger AR, Giannoni P, Shah V, Casadio M, Scheidt RA (2017), Supplemental vibrotactile feedback control of stabilization and reaching actions of the arm using limb state and position error encodings, *J Neuroeng Rehabil.* 2017 May 2;14(1):36
13. De Luca A, Giannoni P, Verneti H, Capra C, Cassiano C, Loguercio L, Pisu I, Gaito F, Barone L, Carioti R, Lentino C, Checchia G, Casadio M. (2016), Training the unimpaired arm improves the motion of the impaired arm and the sitting balance in chronic stroke survivors, *IEEE Trans Neural Syst Rehabil Eng.* 2016 Dec 5.
14. Summa S, Pierella C, Giannoni P, Sciacchitano A, Iacovelli S, Farshchiansadegh A, Mussa-Ivaldi FA, Casadio M. (2015), A body-machine interface for training selective pelvis movements in stroke survivors: A pilot study, *Conf Proc IEEE Eng Med Biol Soc.* 2015;2015:4663-6.
15. Shimatani K, Shima K, Giannoni P, Moretti P, Morasso P (2015) The use of a floating balloon as a walking aid for children, *Physiotherapy* 05/2015.
16. Shimatani K, Shibanoki T, Shima K, Kurita Y, Otsuka A, Casadio M, Giannoni P, Moretti P, Morasso P, Tsuji T (2015), Change over time of infants' movements based on motion analysis: Comparison with changes in General Movements and the body sway, *Physiotherapy* 05/2015.
17. Iandolo R, Squeri V, De Santis D, Giannoni P, Morasso P, Casadio M., Proprioceptive bimanual test in intrinsic and extrinsic coordinates, *Front Hum Neurosci.* 2015 Feb 18;9:72.
18. Iandolo R, Squeri V, De Santis D, Giannoni P, Morasso P, Casadio M (2014) Testing proprioception in intrinsic and extrinsic coordinate systems: is there a difference? *Conf Proc IEEE Eng Med Biol Soc.* 2014; 2014:6961-4
19. Squeri V, Masia L, Giannoni P, Sandini G, Morasso P (2014) Wrist rehabilitation in chronic stroke patients by means of adaptive progressive robot-aided therapy, *IEEE Trans Neural Syst Rehabil Eng.* 2014 Mar; 22(2):3123-25.

20. De Luca A, Lentino C, Vernetti H, Checchia GA, Giannoni P, Morasso P, Casadio M (2013) Functional evaluation of robot end-point assisted gait re-education in chronic stroke survivors, *IEEE Int. Conf. Rehabil. Robot*, 2013 Jun; 2013:6650513.
21. Piovesan D, Morasso P, Giannoni P, Casadio M (2013) Arm Stiffness during assisted movement after stroke: the influence of visual feedback and training. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, 2013 May;21(3):45465.
22. Shima K, Bu N, Tsuji T, Ishii I, Matsuda H, Orito K, Ikeda T, Noda S, Shimatani K, Giannoni P, Morasso P, Tsuji T (2012) A Markerless Infant Motion Analysis System Using Real-time Video Images. *IEEE Transactions on Biomedical Engineering*.
23. Piovesan D, Casadio M, Morasso P, Giannoni P (2011) Influence of visual feedback in the regulation of arm stiffness following stroke. *Proceed. IEEE Eng Med Biol Soc.*, Boston, 2011: 8239-42.
24. Casadio M, Giannoni P, Masia L, Morasso P, Sanguineti V, Squeri V, Vergaro E (2010) Consciousness as the emergent property of the interaction between brain, body, and environment: implications for robot-enhanced neuromotor rehabilitation. *Journal of Psychophysiology*, Vol 24(2), 2010, 125-130.
25. Vergaro E, Casadio M, Squeri V, Giannoni P, Morasso P, Sanguineti V (2010) Selfadaptive robot-training of stroke patients for continuous tracking movements. *J of NeuroEngineering and Rehabilitation*, 7:13.
26. Casadio M, Giannoni P, Masia L, Morasso P, Sandini G, Sanguineti V, Squeri V, Vergaro E (2009) Robot therapy of the upper limb in stroke patients: preliminary experiences for the principle-based use of this technology, *Functional Neurology* 24:195-202.
27. Sanguineti V, Casadio M, Vergaro E, Squeri V, Giannoni P, Morasso PG. Robot therapy for stroke survivors: proprioceptive training and regulation of assistance. *Stud Health Technol Inform.* 2009;145:126-42.
28. Morasso P, Casadio M, Giannoni P, Masia L, Sanguineti V, Squeri V, Vergaro E. Desirable features of a "humanoid" robot-therapist. *Annu Int Conf IEEE Eng Med Biol Soc.* 2009;2009:2418-21. doi: 10.1109/IEMBS.2009.5334954.
29. Masia L, Casadio M, Giannoni P, Sandini G, Morasso P (2009) Performance adaptive training control strategy for recovering wrist movements in stroke patients: a preliminary, feasibility study. *J of NeuroEngineering and Rehabilitation*, 6(44):1-11.
30. Squeri V, Casadio M, Vergaro E, Giannoni P, Morasso P, Sanguineti V, (2009) Bilateral robot therapy based on haptics and reinforcement learning: feasibility study of a new concept for treatment of patients after stroke. *J Rehabilitation Medicine* 41: 961-965.
31. Casadio M, Giannoni P, Morasso P, Sanguineti V, Squeri V, Vergaro E. Training stroke patients with continuous tracking movements: evaluating the improvement of voluntary control. *Annu Int Conf IEEE Eng Med Biol Soc.* 2009;2009:5961-4. doi: 10.1109/IEMBS.2009.5334525.
32. Casadio M, Giannoni P, Morasso P, Sanguineti V (2009) A proof of concept study for the integration of robot therapy with physiotherapy in the treatment of stroke patient. *Clinical Rehabilitation*, 23: 217-228
33. Casadio M, Morasso P, Sanguineti V, Giannoni P (2009) Minimally assistive robot training for proprioception-enhancement. *Experimental Brain Research*, 194: 219-231.
34. Casadio M, Morasso P, Noriaki Ide A, Sanguineti V, Giannoni P (2009) Measuring functional recovery of hemiparetic subjects. *Measurement*, 42: 1176-1187
35. Squeri V, Casadio M, Vergaro V, Giannoni P, Sanguineti V, Morasso P (2008) A Bimanual cooperative approach for assistive robot-therapy. *Proceed. 1st Congress of the National Bioengineering Group*, July 3-5, Pisa, Italy.

36. Vergaro E, Casadio M, Squeri V, Giannoni P, Morasso P, Sanguineti V (2008) Robottherapy for stroke patients: visual tracking with regulation of assistance. Proceed. 1st Congress of the National Bioengineering Group, July 3-5, Pisa, Italy.
37. Casadio M, Squeri V, Vergaro E, Giannoni P, Morasso P, Sanguineti V (2007) A bimanual cooperative strategy for robot therapy. Proceed. of the 3rd Int Symp on Measurement, Analysis and Modeling of Human Functions (ISHF2007, june 14-17 2007, Lisbon), edited by I. Fragoso, F. Carnide, F. Vieira, fMH edicoes, Lisbon (isbn 9789727351459)
38. Vergaro E, Casadio M, Squeri V, Giannoni P, Morasso P, Sanguineti V (2007) Robot therapy of hemiparetic patients with a minimally assistive strategy for tracking movements. Proceed. 3rd Int Symp on Measurement, Analysis and Modeling of Human Functions (ISHF2007, june 14-17 2007, Lisbon), edited by I. Fragoso, F. Carnide, F. Vieira, fMH edicoes, Lisbon (isbn 9789727351459)
39. Vergaro E, Squeri V, Casadio M, Sanguineti V, Giannoni P, Morasso PG (2007) Minimally assistive, adaptive robot therapy for stroke survivors: visuo-haptic tracking and bi-manual protocols. Neuroscience 2007 (Annual Meeting of the Society of Neuroscience), S. Diego (USA), nov 3-7.
40. Giannoni P. (2007) ¿Puede el concepto Bobath combinarse con la terapia robótica? Boletín Asociación Española de Terapeutas formados en el Concepto Bobath (AETB), 20, 14-17.
41. Giannoni P. (2007) Un robot háptico en la Universidad de Génova. Boletín Asociación Española de Terapeutas formados en el Concepto Bobath (AETB), 20, 18-20.
42. Vergaro E, Casadio M, Squeri V, Giannoni P, Mazzei F, Morasso P, Sanguineti V (2007) Adaptive and minimally assisted tracking with a haptic robot: a proposal for stroke rehabilitation. Proceedings VIII Congresso Nazionale SIAMOC, Cuneo, 24-27 Ottobre.
43. Casadio M, Morasso P, Sanguineti V, Giannoni P (2006) Impedance-controlled, minimally-assistive robotic training of severely impaired hemiparetic patients. BioRob 2006 (the First IEEE / RAS-EMBS Int Conf on Biomedical Robotics and Biomechatronics), Pisa, Italy, February 20-22 2006.

Authorize the use of personal data in accordance with Law 196/03

Psiche Giannoni

Genova, 17.01.2022