

PERSONAL INFORMATION

Giuseppina Sgandurra

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Gender Female Nationality Italian

WORK EXPERIENCE

From 2019 till now
Employer's name and locality

Head of INNOVATE (INNOVATivE technologies in neurorehabilitation) Lab

IRCCS Fondazione Stella Maris and University of Pisa, Pisa (Italy)

From 2020 till now
Employer's name and locality

Senior Researcher full time (RTD-B) (ongoing)

IRCCS Fondazione Stella Maris and University of Pisa, Pisa (Italy)

2017 - 2020
Employer's name and locality

Junior Researcher full time (RTD-A)

IRCCS Fondazione Stella Maris and University of Pisa, Pisa (Italy)

From 2012 till 2017

Post-Doc

Employer's name and locality

IRCCS Fondazione Stella Maris

OTHER ACTIVITIES

2022 Coordinator of Summer school of University of Pisa "From Early Detection to Early Surveillance and Intervention in Children at Risk of Cerebral Palsy" supported by European Academy of Childhood Disability (EACD)

2019 Organizer of Summer school on Evidence based medicine and research in rehabilitation of childhood disabilities. A course on research in child rehabilitation and good clinical practice. http://edu.eacd.org/Pisa_Summer_School supported by European Academy of Childhood Disability (EACD)

2023 till now Editorial board member of Bioengineering journal

2022 till now Associate Editor for Frontiers Neurology

2020 till now Editorial Board Member of BMC Pediatrics

2018 till now Advisor for 50 students' theses on child neurology and rehabilitation (degree on medicine, child motor therapists, speech therapists, motor science), tutor of 4 Phd Students

2018 till now Advisory Board Member of "Giornale Italiano di Neuropsichiatria dell'Età Evolutiva"

2012-2013
2019-ongoing Member of Intersocietal Commission SIMFER-SINPIA for the revision of "Italian Guidelines and Care-pathways for the rehabilitation of children with Cerebral Palsy"

EDUCATION AND TRAINING

<p>2012</p> <p>Education or training organisation's Qualification awarded</p>	<p>PhD on Innovative Strategies in Biomedical Research (cum laude)</p> <p>Scuola Superiore Sant'Anna (Pisa, Italy)</p> <p>PhD (16/04/2012, 100/100 cum laude) with thesis: Reorganization of sensori-motor system in brain damage: new insights on plasticity and rehabilitation</p>
<p>2004-2008</p> <p>Education or training organisation's Qualification awarded</p>	<p>Specialization on Child Neurology and Psychiatry (cum laude)</p> <p>Università di Pisa - IRCCS Fondazione Stella Maris (Pisa, Italy)</p> <p>Specialization (27/10/2008, 110/100 cum laude) with thesis: Movement Disorders in childhood: new tools for clinical outcome assessment</p>
<p>2002</p> <p>Education or training organisation's Qualification awarded</p>	<p>Degree in Medicine and Surgery (cum laude)</p> <p>Università degli Studi di Catania (Catania, Italy)</p> <p>Degree (29/07/2002, 110/110 cum laude) with thesis: Gait analysis of children with Cerebral Palsy: ankle kinematic modification after botulinum toxin A.</p>

FUNDED GRANTS

<p>Funder</p> <p>Title</p> <p>Starting year (duration)</p> <p>Role</p> <p>Funds (euro)</p>	<p>Horizon Europe Program (European Commission)</p> <p>AInCP (https://cordis.europa.eu/project/id/101057309)</p> <p>2022 (60 months)</p> <p>Principal Investigator</p> <p>6M</p>
<p>Funder</p> <p>Title</p> <p>Starting year (duration)</p> <p>Role</p> <p>Funds (euro)</p>	<p>EraPerMed (European Commission)</p> <p>CATCH-HEMI (https://www.era-learn.eu/network-information/networks/erapermed/personalised-medicine-multidisciplinary-research-towards-implementation/combinigbiomarkers-and-tele-health-solutions-for-delivering-at-home-and-in-the-community-precision-medicineand-intervention-for-the-upper-limb-in-children-with-hemiplegia-due-to-stroke)</p> <p>2021 (36 months)</p> <p>Principal Investigator</p> <p>734.390</p>
<p>Funder</p> <p>Title</p> <p>Starting year (duration)</p> <p>Role</p> <p>Funds (euro)</p>	<p>Ministry of Health (Italy)</p> <p>ACT-ON-DIP: ACTion Observation tele-rehabilitatioN for upper limb in children with DIPlegic cerebral palsy)</p> <p>2021 (36 months)</p> <p>Principal Investigator</p> <p>450k</p>
<p>Funder</p> <p>Title</p> <p>Starting year (duration)</p> <p>Role</p> <p>Funds (dollar)</p>	<p>AACPDM</p> <p>BI-UPCAT: BIllateral UPPer-limb Children Action observation Training for children with bilateral cerebral palsy</p> <p>2021 (12 months)</p> <p>Principal Investigator</p> <p>25k</p>
<p>Funder</p> <p>Title</p> <p>Starting year (duration)</p> <p>Role</p> <p>Funds (euro)</p>	<p>European Commission (Horizon 2020)</p> <p>BornToGetThere (http://borntogether.eu)</p> <p>2020 (48 months)</p> <p>Co - Principal Investigator</p> <p>4.3M</p>

Funder	PROMPT Foundation
Title	PROMPT for CP
Starting year (duration)	2019 (24 months)
Role	Co - Principal Investigator
Funds (dollar)	83.250
Funder	Ministry of Health (Italy)
Title	Development and implementation of an Italian Network of Tele-neuro-rehabilitation for continuity of care. The goal is to create standard and common protocols for programs of telerehabilitation in children with neurodevelopmental disorders
Starting year (duration)	2019 (24 months)
Role	Principal Investigator
Funds (euro)	33.857
Funder	Ministry of Health (Italy)
Title	CareToy: a smart System for early home-based intervention in infants at high risk for Cerebral Palsy.
Starting year (duration)	2016 (36 months)
Role	Clinical Project Manager
Funds (euro)	450k
Funder	TIM Foundation (Italy)
Title	e-Rob: e-Learning per la Robotica Educativa
Starting year (duration)	2016 (24 months)
Role	Clinical Project Manager
Funds (euro)	150k
Funder	Ministry of Health (Italy)
Title	Action-Observation Therapy (AOT) and Information and Communications Technologies (ICT) for Home Rehabilitation of Children with Hemiplegia
Starting year (duration)	2014 (36 mesi)
Role	Principal Investigator
Funds (euro)	278k
Funder	European Commission (Europe)
Title	CareToy: A Modular Smart System for Infants' Rehabilitation at Home based on Mechatronic Toys
Starting year (duration)	2011 (36 mesi)
Role	Clinical Project Manager
Funds (euro)	2300k
Funder	Fondation Motrice (France)
Title	Contribution to a PACE Approach to Cerebral Palsy: New Testing and Conceptual Tools
Starting year (duration)	2011 (12 months)
Role	Collaborator
Funds (euro)	160k
Funder	Tuscan Region (Italy)
Title	MechTOY: a new Mechatronic TOY for early diagnosis of atypical development in infants
Starting year (duration)	2010 (24 months)
Role	Collaborator
Funds (euro)	400k
Funder	Cassa di Risparmio di Livorno (Italia)
Title	Development of a biomechatronic gym as a clinical and research instrument for the assessment of hand function

Starting year (duration)	2009 (12 month)
Role	Collaboratore
Funds (euro)	7k

ATTENDANCE IN CONGRESSES AND SEMINARS

Since 2015 yearly active Partecipation at EACD annual meetings. Specifically:

- Workshop (27th, Copenhagen, 2015)
- Mini-symposium: (28th, Stockholm, 2016)
- Breakfast instructional course (29th, Amsterdam, 2017)
- Oral presentation (30th, Tblisi)
- Workshop (31st, Paris, 2019)
- Oral presentations (32nd, online, 2020)
- Keynote speaker (33rd, Online, 2021) + Award for the 2nd placement for the Mac Keith Press Best Abstract
- 2 Breakfast courses and 2 mini.symposiums (34th, Barcelona, 2022)
- Mini-symposium (35th, Ljubljana, 2023)

Active participation at the AACPDPM

- Oral presentation(72nd, Cincinnati, 2018)
- Breakfast course and focused symposim(73th, 2019)
- Oral presentation (74th, Online, 2020)
- Oral presentation (75th, Online, 2021)
- Mini-symposium (76th, Las Vegas, Nevada, 2022)

Invited speaker to 12 international congresses, workshops and summer schools

Invited speaker to about 25 national congresses

Partecipation to about 50 national and international congresses on neurodevelopmental disorders

Partecipation to about 20 national and international courses mainly focused on the writing of grants and on the childhood rehabilitation

OTHER

Scientific National Abilitation (ASN)

- 06/G1 Associate Professor (06/11/2029)
- 06/G1 Full Professor (09/06/2034)
- 06/F4 Full Professor (09/06/2034)
- 06/N1 Full Professor (09/06/2034)

BIBLIOMETRIC ATA (SCOPUS on 04/03/2023)

Total number of publications 84 (8 book chapters, 69 paper *in extenso* in international journals and 7 paper *in extenso* in national journals)

H Index 21

Totale Citazioni 1340

BOOKS

- 1 Beani, E., Filogna, S., Cioni, G., **Sgandurra, G.**. From the Early Detection to Early Intervention at home: the role of technology in infancy In Provenzi L, Grumi S, Borgatti R (in progress) Family centered care in child disability: Theory, research, and practice. Springer.
- 2 Cioni, G., Beani, E. **Sgandurra, G.**, (2023). Paralisi Cerebrali Infantili. In: Neurologia Pediatrica. Dalle

basi biologiche alla pratica clinica, Martino Ruggieri (Eds), Edra, 2023.

- 3 Di Lieto, M.C., Beani, E. **Sgandurra, G.**, (2020). Paralisi Cerebrale Infantile. In: Chiara Pecini and Daniela Brizzolara, McGraw-Hill Education, 2020.
- 4 Di Lieto, M.C., Pecini, C., Castro, E., Inguaggiato, E., Cecchi, F., Dario, P., **Sgandurra, G.**, Cioni, G. (2019). Robot Programming to Empower Higher Cognitive Functions in Early Childhood. In: Daniela L. (eds) Smart Learning with Educational Robotics. Springer, Cham. Ch 9 pp 229- 250.
- 5 Cioni, G., Inguaggiato, E., **Sgandurra, G.** *Plasticità cerebrale tra geni ed ambiente: implicazioni per l'intervento precoce nei disturbi del neurosviluppo* in Neuropsicologia dello sviluppo a cura di Stefano Vicari e Maria Cristina Caselli IL MULINO, 2017; 14-27
- 6 Cioni, G., **Sgandurra, G.** *Normal psychomotor development* in Handbook of Clinical Neurology on Pediatric Neurology di O.Dulac, H. Sarnat e M. Lassonde (Eds)- Elsevier, 2013; 111:3-15.
- 7 Sgandurra, G., Cioni, G. *Clinical and instrumental assessment of upper limb in cerebral palsy*. Mariani Foundation's paediatric neurology series, 2011.
- 8 Cioni, G., Sgandurra, G., Muzzini, S., Paolicelli, P.B. Ferrari, A. *Forms of Hemiplegia Capitolo 16* del libro "The Spastic Forms of Cerebral Palsy. A Guide to the Assessment of Adaptive Functions" di A.Ferrari e G. Cioni, Springer, 2009.

PUBLICATION (PEER-REVIEWED)

- 1 Franchi De' Cavalieri M, Filogna S, Martini G, Beani E, Maselli M, Cianchetti M, Dubbini N, Cioni G, **Sgandurra G***; CareToy-R Consortium. Wearable accelerometers for measuring and monitoring the motor behaviour of infants with brain damage during CareToy-Revised training. *J Neuroeng Rehabil.* 2023 May 6;20(1):62. doi: 10.1186/s12984-023-01182-z.
- 2 Bombonato, C., Del Lucchese, B., Ruffini, C., Di Lieto, M.C., Brovedani, P., **Sgandurra, G.***, Cioni, G.; Pecini, C. (2023). Far Transfer Effects of Trainings on Executive Functions in Neurodevelopmental Disorders: A Systematic Review and Metanalysis. *NEUROPSYCHOLOGY REVIEW*, ISSN: 1573-6660, doi: 10.1007/s11065-022-09574-z
- 3 Pinku, H., Hüls, A., Feany, P.T., Baumer, N., Dierssen, M., Bargagna, S., Costa, A.Cs, Chicoine, B. A., Rebillat, A.S-, **Sgandurra, G.**, Valentini, D., [...] Individuals with Down syndrome from India and high-income countries: Data from the Trisomy 21 Research Society survey. *JOURNAL OF GLOBAL HEALTH*, vol. 12, ISSN: 2047-2978, doi: 10.7189/jogh.12.05035
- 4 Saviola, D., Castelli, E., Beretta, E., De Tanti, A., Arduini, F., Biffi, E., Colazza, A., Di Pede, C., Guzzetta, A., Lucarini, L., Maghini, I., [...] **Sgandurra, G.**, [...] Robot-assisted rehabilitation for children with neurological disabilities: Results of the Italian consensus conference CICERONE. *NEUROREHABILITATION*, p. 1-15, ISSN: 1053- 8135, doi: 10.3233/NRE-220036
- 5 Beani, E., Filogna, S., Martini, G. Barzacchi, V., Ferrari, A., Guidi, F., Menici V., Cioni G., **Sgandurra G.** (2022). Application of Virtual Reality Rehabilitation System for the assessment of postural control while standing in typical children and peers with neurodevelopmental disorders. *GAIT & POSTURE*, vol. 92, p. 364-370, ISSN: 0966-6362, doi: 10.1016/j.gaitpost.2021.12.008
- 6 Huls, A., Feany, P. T., Zisman, Sophia Isabella, Costa, Alberto C S, Dierssen, Mara, Balogh, Robert, Bargagna, Stefania, Baumer, Nicole T, Brandão, Ana Claudia, Carfi, Angelo, Chicoine, Brian AI [...] **Sgandurra, G.**, [...] COVID-19 Vaccination of Individuals with Down Syndrome-Data from the Trisomy 21 Research Society Survey on Safety, Efficacy, and Factors Associated with the Decision to Be Vaccinated. *VACCINES*, vol. 10, ISSN: 2076-393X, doi: 10.3390/vaccines10040530
- 7 Tinelli, F., Gori, M., Beani, E., **Sgandurra, G.**, Martolini, C., Maselli, M., Petri, S., Purpura, G. (2022). Feasibility of audio-motor training with the multisensory device ABBI: Implementation in a child with hemiplegia and hemianopia. *NEUROPSYCHOLOGIA*, vol. 174, ISSN: 0028-3932, doi:10.1016/j.neuropsychologia.2022.108319
- 8 Fiori, S, Ragoni, C, Podda, I, Chilosi, A, Amador, C, Cipriani, P, Guzzetta, A, **Sgandurra, G** (2022). PROMPT to improve speech motor abilities in children with cerebral palsy: a wait-list control group trial protocol. *BMC NEUROLOGY*, vol. 22, ISSN: 1471-2377, doi: 10.1186/s12883-022-02771-6

- 9 Martini, G., Beani, E., Filogna, S., Menici, V., Cioni, G., Battini, R., **Sgandurra, G.*** (2022). New Technological Approach for the Evaluation of Postural Control Abilities in Children with Developmental Coordination Disorder. CHILDREN, vol. 9, ISSN: 2227-9067, doi: 10.3390/children9070957
- 10 Fioroni Ribeiro da Silva, C., Menici, V., Tudella, E., Beani, E., Barzacchi, V., Battini, R., Orsini, A., Cioni, G., **Sgandurra, G.** (2022). Parental Practices and Environmental Differences among Infants Living in Upper-Middle and High-Income Countries: A Cross-Sectional Study. INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH, vol. 19, ISSN: 1660-4601, doi: 10.3390/ijerph191710833
- 11 Beani, E., Filogna, S., Martini, G., Barzacchi, V., Ferrari, A., Guidi, E., Menici V., Cioni G., **Sgandurra, G.** (2021). Application of Virtual Reality Rehabilitation System for the assessment of postural control while standing in typical children and peers with neurodevelopmental disorders. *Gait & Posture*
- 12 Menici, V., Barzacchi, V., Filogna, S., Beani, E., Tinelli, F., Cioni, G., & **Sgandurra, G.** (2021). Tele-Rehabilitation for Postural Control by Means of Virtual Reality Rehabilitation System in an Adolescent With Motor Disorder: A Case Study. *Frontiers in Psychology*, 4217.
- 13 Ryll, U. C., Krumlinde-Sundholm, L., Verhage, C. H., Sicola, E., **Sgandurra, G.**, Bastiaenen, C. H., & Eliasson, A. C. (2021). Predictive validity of the Hand Assessment for Infants in infants at risk of unilateral cerebral palsy. *Developmental Medicine & Child Neurology*, 63(4), 436-443.
- 14 Hüls, A., Costa, A. C., Dierssen, M., Baksh, R. A., Bargagna, S., Baumer, N. T., Brandao, A.C., Carfi, A., Carmona-Iragui, M., Chicoine, B.A., Ghosh, S., Lakhapaul, M., Manso, C., Mayer, MA., Ortega M., Real de Asua, D., Rebillat, As., Russell, L.A., **Sgandurra, G.**, Valentini, D., Sherman, S.L., Strydom, A., on behalf of the T21RS COVID-19 Initiative. (2021). Medical vulnerability of individuals with Down syndrome to severe COVID-19—data from the Trisomy 21 Research Society and the UK ISARIC4C survey. *EClinicalMedicine*, 33, 100769.
- 15 Emes D., Huls A., Baumer N., Dierssen M., Puri S., Russell L., Sherman S. L., Strydom A., Bargagna S., Brandao A. C., Costa A. C. S., Feany P. T., Chicoine B. A., Ghosh S., Rebillat A. -S., **Sgandurra G.**, Valentini D., Rohrer T. R., Levin J., Lakhapaul M. (2021). Covid-19 in children with down syndrome: Data from the trisomy 21 research society survey. *JOURNAL OF CLINICAL MEDICINE*, vol. 10, 5125, ISSN: 2077-0383, doi: 10.3390/jcm10215125
- 16 Menici V., Antonelli C., Beani E., Mattiola A., Giampietri M., Martini G., Rizzi R., Cecchi A., Cioni M. L., Cioni G., **Sgandurra G.** (2021). Feasibility of Early Intervention Through Home-Based and Parent-Delivered Infant Massage in Infants at High Risk for Cerebral Palsy. *FRONTIERS IN PEDIATRICS*, vol. 9,673956, ISSN: 2296-2360, doi: 10.3389/fped.2021.673956
- 17 Scalise, R., **Sgandurra, G.**, Menici, V., Capodagli, N., Di Pietro, R., Romeo, D. M., Sini, F., Pagliano E., Foscan, M., Cioni, G., Battini, R. (2021). A Retrospective Longitudinal Study in a Cohort of Children With Dyskinetic Cerebral Palsy Treated With Tetrabenazine. *Frontiers in Neurology*, 12, 141.
- 18 Rizzi, R., Menici, V., Cioni, M. L., Cecchi, A., Barzacchi, V., Beani, E., Giampietri, M., Cioni, G., **Sgandurra, G.** (2021). Concurrent and predictive validity of the infant motor profile in infants at risk of neurodevelopmental disorders. *BMC pediatrics*, 21(1), 1-11.
- 19 Bieber, E., Smits-Engelsman, B. C. M., **Sgandurra, G.**, Di Gregorio, F., Guzzetta, A., Cioni, G., Feys, H., Klingels, K. (2021). A new protocol for assessing action observation and imitation abilities in children with Developmental Coordination Disorder: A feasibility and reliability study. *Human Movement Science*, 75, 102717.
- 20 Di Lieto, M. C., Pecini, C., Brovedani, P., **Sgandurra, G.**, Dell'Ombo, M., Chilosi, A. M., Guzzetta, A., Perrazza, S., Sicola, S., Cioni, G. (2021). Adaptive Working Memory Training Can Improve Executive Functioning and Visuo-Spatial Skills in Children With Pre-term Spastic Diplegia. *Frontiers in Neurology*, 11, 1742. corresponding
- 21 Beani, E., Menici, V., Cecchi, A., Cioni, M. L., Giampietri, M., Rizzi, R., **Sgandurra, G.**, Cioni, G. CareToy-R Consortium. (2020). Feasibility Analysis of CareToy-Revised Early Intervention in Infants at High Risk for Cerebral Palsy. *Frontiers in neurology*, 11, 1584. corresponding

- 22 Conti, E., **Sgandurra, G.**, De Nicola, G., Biagioni, T., Boldrini, S., Bonaventura, E., ... & Battini, R. (2020). Behavioural and emotional changes during covid-19 lockdown in an italian paediatric population with neurologic and psychiatric disorders. *Brain Sciences*, 10(12), 918.
- 23 **Sgandurra, G.**, Biagi, L., Fogassi, L., Ferrari, A., Sicola, E., Guzzetta, A., Tosetti, M., Cioni, G. (2020). Reorganization of action observation and sensory-motor networks after action observation therapy in children with congenital hemiplegia: A pilot study. *Developmental Neurobiology*.
- 24 Battini, R., **Sgandurra, G.**, Menici, V., Scalise, R., Olivieri, I., Di Pietro, R., Lucibello, S., Giannini, M.T., Cioni, G. (2020). Movement disorders-Childhood Rating Scale 4-18 revised in children with dyskinetic cerebral palsy. *European journal of physical and rehabilitation medicine*, 56(3), 272-8.
- 25 Beani, E., Menici, V., Ferrari, A., Cioni, G., **Sgandurra, G.** (2020). Feasibility of a home-based action observation training for children with unilateral cerebral palsy: an explorative study. *Frontiers in neurology*, 11.
- 26 Di Lieto, M. C., Pecini, C., Castro, E., Inguaggiato, E., Cecchi, F., Dario, P., Cioni, G., **Sgandurra, G.** (2020). Empowering Executive Functions in 5-and 6-Year-Old Typically Developing Children Through Educational Robotics: An RCT Study. *Frontiers in psychology*, 10, 3084.
- 27 Di Lieto, M. C., Castro, E., Pecini, C., Inguaggiato, E., Cecchi, F., Dario, P., Cioni, G., **Sgandurra, G.** (2020). Improving Executive Functions at School in Children With Special Needs by Educational Robotics. *Frontiers in psychology*, 10, 2813.
- 28 Simon-Martinez, C., Mailleux, L., Hoskens, J., Ortibus, E., Jaspers, E., Wenderoth, N., **Sgandurra G.**, Cioni, G., Molenaers, G., Klingels, K., Feys, H. (2020). Randomized controlled trial combining constraint-induced movement therapy and action-observation training in unilateral cerebral palsy: clinical effects and influencing factors of treatment response. *Therapeutic advances in neurological disorders*, 13, 1756286419898065.
- 29 Buchignani, B., Beani, E., Pomeroy, V., Iacono, O., Sicola, E., Perazza, S., Bieber, E., Feys, H., Klingels., Cioni, G., **Sgandurra, G.** (2019). Action observation training for rehabilitation in brain injuries: a systematic review and meta-analysis. *BMC neurology*, 19(1), 1-16.
- 30 Ek, L., Eliasson, A. C., Sicola, E., Sjöstrand, L., Guzzetta, A., **Sgandurra, G.**, Cioni, G., Krumlinde-Sundholm, L. (2019). Hand Assessment for Infants: normative reference values. *Developmental Medicine & Child Neurology*, 61(9), 1087-1092.
- 31 Bargagna, S., Castro, E., Cecchi, F., Cioni, G., Dario, P., Dell'Ombo, M., Di Lieto, M.C., Inguaggiato, E., Martinelli, A., Pecini, C., **Sgandurra, G.** (2019). Educational robotics in down syndrome: a feasibility study. *Technology, knowledge and learning*, 24(2), 315-323.
- 32 Sakzewski, L., Sicola, E., Verhage, C. H., **Sgandurra, G.**, Eliasson, A. C. (2019). Development of hand function during the first year of life in children with unilateral cerebral palsy. *Developmental Medicine & Child Neurology*, 61(5), 563-569.
- 33 Beani, E., Maselli, M., Sicola, E., Perazza, S., Cecchi, F., Dario, P., Braito, I., Boyd, R., Cioni, G., **Sgandurra, G.** (2019). Actigraph assessment for measuring upper limb activity in unilateral cerebral palsy. *Journal of neuroengineering and rehabilitation*, 16(1), 1-8.
- 34 Rihar, A., Mihelj, M., Pašić, J., **Sgandurra, G.**, Cecchi, F., Cioni, G., Dario, P., Munih, M. (2019). Infant posture and movement analysis using a sensor-supported gym with toys. *Medical & biological engineering & computing*, 57(2), 427-439.
- 35 Sgherri, G., Avola, M., Beani, E., Chisari, C., Cioni, G., **Sgandurra, G.** (2019). Methods to assess usability and acceptability of technologies for home-based rehabilitation a systematic review. *International Journal on Emerging Technologies*, 10(4), 434-443.
- 36 **Sgandurra, G.**, Beani, E., Inguaggiato, E., Lorentzen, J., Nielsen, J. B., Cioni, G. (2019). Effects on parental stress of early home-based carettoy intervention in low-risk preterm infants. *Neural plasticity*, 2019.

- 37 Braito, I., Maselli, M., **Sgandurra, G.**, Inguaggiato, E., Beani, E., Cecchi, F., Cioni, G., Boyd, R. (2018). Assessment of upper limb use in children with typical development and neurodevelopmental disorders by inertial sensors: a systematic review. *Journal of neuroengineering and rehabilitation*, 15(1), 1-18. corresponding
- 38 **Sgandurra, G.**, Beani, E., Giampietri, M., Rizzi, R., & Cioni, G. (2018). Early intervention at home in infants with congenital brain lesion with CareToy revised: a RCT protocol. *BMC pediatrics*, 18(1), 1-9.
- 39 Simon-Martinez, C., Mailleux, L., Ortibus, E., Fehrenbach, A., **Sgandurra, G.**, Cioni, G., Desloovere, K., Wenderoth, N., Demaerel, P., Sunaert, S., Molenaers, G., Feys, H., Klingels, K. (2018). Combining constraint-induced movement therapy and action-observation training in children with unilateral cerebral palsy: a randomized controlled trial. *BMC pediatrics*, 18(1), 1-13.
- 40 **Sgandurra, G.**, Olivieri, I., Casarano, M., Menici, V., Velli, C., Sini, F., Lucibello, S., Romeo, D.M., Cioni, G., Battini, R. (2017). Inter and intra-rater reliability and minimal detectable difference of Movement Disorder-Childhood Rating Scale. *European journal of physical and rehabilitation medicine*, 54(1), 48-57.
- 41 **Sgandurra, G.**, Biagi, L., Fogassi, L., Sicola, E., Ferrari, A., Guzzetta, A., Tosetti, M., Cioni, G. (2018). Reorganization of the action observation network and sensory-motor system in children with unilateral cerebral palsy: an fMRI study. *Neural plasticity*, 2018.
- 42 **Sgandurra, G.**, Cecchi, F., Beani, E., Mannari, I., Maselli, M., Falotico, F. P., Inguaggiato, E., Perazza, S., Sicola, E., Feys, H., Klingels, K., Ferrari, A., Dario, P., Boyd, R.N., Cioni, G. (2018). Tele-UPCAT: study protocol of a randomised controlled trial of a home-based Tele-monitored UPper limb Children Action observation Training for participants with unilateral cerebral palsy. *BMJ open*, 8(5), e017819.
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