



CURRICULUM VITAE (CVA)

Part A. PERSONAL INFORMATION		CV date	23/05/2022
First name	Jennifer		
Family name	Grau Sánchez		
Open Researcher and Contributor ID (ORCID) (*)	0000-0002-8123-1745		

(*) Mandatory

A.1. Current position

Position	Associate Professor		
Initial date	01/09/2019		
Institution	Fundació per a la Docència Sant Llàtzer, Autonomous University of Barcelona		
Department/Centre	School of Nursing and Occupational Therapy of Terrassa		
Country	Spain	Phone number	+34 937837777 - ext.212
Keywords	Cognitive neuroscience; Rehabilitation; Sensorial incapacity and motor; Stroke;		

A.2. Previous positions (research activity interruptions)

Period	Position/Institution/Country/Cause of the interruption
2019 – 2021	Postdoctoral researcher, Bellvitge Biomedical Research Institute (IDIBELL), Spain
2014 - 2019	Predocctoral researcher, University of Barcelona
2010 - 2014	Research technician, University of Barcelona

A.3. Education

PhD, Graduate Degree	University/Country	Year
PhD in Biomedicine	University of Barcelona	2019
Master in Research in Behaviour and Cognition (40/60 ECTS)	University of Barcelona	2014
Master in Neuroscience	University of Barcelona	2013
Postgraduate course in Cognitive Rehabilitation	Superior Institute of Psychological Studies (ISEP)	2010
Bachelor in Occupational Therapy	Autonomous University of Barcelona	2009



Part B. RELEVANT MERITS

C.1. Publications

Llarch-Pinell, E., Monsó-Monsó, A., Ars, J., Udina, C., Inzitari, M., & **Grau-Sánchez, J.** (2021). Intervención de terapia ocupacional para la mejora de la autonomía en personas postinfección por SARSCOV-2. Rehabilitación. In press. **(6/6 and Corresponding author)**

Sartor, M. M., **Grau-Sánchez, J.**, Guillén-Solà, A., Boza, R., Puig, J., Stinear, C., Morgado-Perez, A., & Duarte, E. (2021). Intensive rehabilitation programme for patients with subacute stroke in an inpatient rehabilitation facility: describing a protocol of a prospective cohort study. *BMJ open*, 11(10), e046346. <https://doi.org/10.1136/bmjopen-2020-046346> **(2/8)**

Segura, E., **Grau-Sánchez, J.**, Sanchez-Pinsach, D., De la Cruz, M., Duarte, E., Arcos, J. L., & Rodríguez-Fornells, A. (2021). Designing an app for home-based enriched Music-supported Therapy in the rehabilitation of patients with chronic stroke: a pilot feasibility study. *Brain injury*, 1–13. <https://doi.org/10.1080/02699052.2021.1975819>. **(2/7 and Corresponding author)**

Grau-Sánchez, J., Segura, E., Sanchez-Pinsach, D., Raghavan, P., Münte, T. F., Palumbo, A. M., Turry, A., Duarte, E., Särkämö, T., Cerquides, J., Arcos, J. L., & Rodríguez-Fornells, A. (2021). Enriched Music-supported Therapy for chronic stroke patients: a study protocol of a randomised controlled trial. *BMC neurology*, 21(1), 19. <https://doi.org/10.1186/s12883-020-02019-1>. **(1/12 and Corresponding author)**

Duarte, E., Messaggi-Sartor, M., **Grau-Sánchez, J.**, Ramírez-Fuentes, C., Neira, N., Guillén-Solà, A., & Marco, E. (2020) Cerebral infarct site and affected vascular territory as factors in breathing weakness in patients with subacute stroke. *Journal of rehabilitation medicine*. In press. **(3/7)**

Papatzikis, E., Zeba, F., Särkämö, T., Ramirez-Melendez, R., **Grau-Sánchez, J.**, Tervaniemi, M. and Loewy, J. (2020) Mitigating the Impact of the Novel Coronavirus Pandemic on Neuroscience and Music Research Protocols in Clinical Populations. *Frontiers in Psychology*. 11:2160. doi: 10.3389/fpsyg.2020.02160. **(5/7)**

Grau-Sánchez, J., Münte, T. F., Altenmüller, E., Duarte, E., & Rodríguez-Fornells, A. (2020). Potential benefits of music playing in stroke upper limb motor rehabilitation. *Neuroscience & Biobehavioral Reviews*. 112:585-599. **(1/5 and Corresponding author)**

Gomez-Andres, A., **Grau-Sánchez, J.**, Duarte, E., Rodriguez-Fornells, A., & Tajadura-Jiménez, A. (2019). Enriching footsteps sounds in gait rehabilitation in chronic stroke patients: a pilot study. *Annals of the New York Academy of Sciences*. 1467(1):48-59. **(2/5)**

Grau-Sánchez, J., Bonet, C., Gallego, J., Gutiérrez, M., Massana, R., Medina, E., Montiel, E., Méndez, B. (2019). La creación de un código deontológico: experiencia del colegio de terapeutas ocupacionales de Cataluña. *Revista electrónica de terapia ocupacional Galicia, TOG*, 16(29), 109-117. **(1/8 and Corresponding autor)**

Grau-Sánchez, J., Duarte, E., Ramos-Escobar, N., Sierpowska, J., Rueda, N., Redón, S., Veciana de las Heras, M., Pedro, J., Särkämö, T., Rodríguez-Fornells, A. (2018). Music-Supported Therapy in the rehabilitation of subacute stroke patients: A Randomized Controlled Trial. *Annals of the New York Academy of Sciences*. 1423(1):318-328. <https://doi.org/10.1111/nyas.13590>. **(1/10)**

Grau-Sánchez, J., Ramos, N., Duarte, E., Särkämö, T., Rodríguez-Fornells, A. (2017). Time course of motor gains induced by Music-Supported Therapy after stroke: An exploratory case study. *Neuropsychology*. 31(6):624-635. **(1/6)**

Grau-Sánchez, J., Foley, M., Hlavová, R., Muukkonen, I., Ojinaga-Alfageme, O., Radukic, A., Spindler, M., Hundevad, B. (2017). Exploring Musical Activities and Their Relationship to Emotional Well-Being in Elderly People across Europe: A Study Protocol. *Frontiers in Psychology*. 8:330. **(1/8 and Corresponding autor)**

Ripollés, P., Rojo, N., **Grau-Sánchez, J.**, Amengual, J.L., Càmara, E., Marco-Pallarés, J., Juncadella, M., Vaquero, L., Rubio, F., Duarte, E., Garrido, C., Altenmüller, E., Münte, T.F., Rodríguez-Fornells, A. (2016). Music supported therapy promotes motor plasticity in individuals with chronic stroke. *Brain Imaging and Behavior*. 10(4):1289-1307. **(3/14)**

Kilteni, K., **Grau-Sánchez, J.**, Veciana de las Heras, M., Rodríguez-Fornells, A., Slater, M. (2016). Decreased corticospinal excitability after the illusion of missing part of the arm. *Frontiers in Human Neuroscience*. 10:145. **(2/5)**

Amengual, J.L., Münte, T.F., Marco-Pallarés, J., Rojo, N., **Grau-Sánchez, J.**, Rubio, F., Duarte, E., Grau, C., Rodríguez-Fornells, A. (2014). Overactivation of the supplementary motor area in chronic stroke patients. *Journal of Neurophysiology*. 112: 2251–2263. **(5/9)**

François, C., **Grau-Sánchez, J.**, Duarte, E., Rodríguez-Fornells, A. (2015). Musical training as an alternative and effective method for neuro-education and neuro-rehabilitation. *Frontiers in Psychology*. 6:475. **(2/4)**

Grau-Sánchez, J., Amengual, J.L., Rojo, N., Veciana de las Heras, M., Montero, J., Rubio, F., Altenmüller, E., Münte, T.F., Rodríguez-Fornells, A. (2013). Plasticity in the sensorimotor cortex induced by Music-supported therapy in stroke patients: a TMS study. *Frontiers in Human Neuroscience*. 7:494. **(1/9)**

Amengual, J.L., Rojo, N., Veciana de las Heras, M., Marco-Pallarés, J., **Grau-Sánchez, J.**, Schneider, S., Vaquero, L., Juncadella, M., Montero, J., Mohammadi, B., Rubio, F., Rueda, N., Duarte, E., Grau, C., Altenmüller, E., Münte, T.F., Rodríguez-Fornells, A. (2013). Sensorimotor Plasticity after Music-Supported Therapy in Chronic Stroke Patients Revealed by Transcranial Magnetic Stimulation. *PLOS ONE*. 8(4):e61883. **(5/17)**

C.2. Congresses: 10 most relevant

1 Oral presentation. Grau-Sánchez, J. Enriched Music-Supported Therapy in the rehabilitation of individuals with chronic stroke. The Neurosciences and Music VII. Fondazione Pierfranco e Luisa Mariani. Aarhus, Denmark: June, 2021.

2 Oral presentation. Monsó-Monsó, A., Llarch-Pinell, E., Grau-Sánchez, J. Intervención de Terapia Ocupacional para la mejora de la autonomía en personas posinfección por SARS-CoV-2 en una unidad de hospitalización intermedia: Estudio observacional longitudinal. Congreso internacional de Terapia Ocupacional (CITO). Universidad Miguel Hernández. Virtual format: May, 2021.

3 Invited talk. Grau-Sánchez, J. Facing issues and discussing solutions during the COVID-19 era: An online discussion on active music and neuroscience protocols. Music and Neuroscience Teleconference. Canadian University of Dubai. Virtual Conference: April, 2020.

4 Invited talk. Grau-Sánchez, J. Music-supported therapy and neuroplasticity in stroke. Scientific Workshop in Neurorehabilitation. Spanish Society of Neurorehabilitation. Vigo, Spain: October, 2018.

5 Scientific poster. Grau-Sánchez, J., Ramos, N., Sierpowska, J., Rueda, N., Redón, S., Veciana de las Heras, M., Särkämö, T., Duarte, E., Rodríguez-Fornells, A. Music-supported Therapy in the neurorehabilitation of motor deficits after a stroke: a randomized controlled trial. 12th International Society of Physical and Rehabilitation Medicine World Congress. International Society of Physical and Rehabilitation Medicine. Paris, France: July, 2018.

6 Invited talk. Grau-Sánchez, J. Music-supported Therapy in the rehabilitation of motor deficits after subacute stroke: a randomised controlled trial. Workshop of the Catalan Society of Neurology. Barcelona, Spain: December, 2017.

7 Scientific poster. Grau-Sánchez, J., Ramos, N., Sierpowska, J., Rueda, N., Redón, S., Veciana de las Heras, M., Särkämö, T., Duarte, E., Rodríguez-Fornells, A. Music-supported Therapy in the neurorehabilitation of motor deficits after a stroke. 2nd congress on Neurorehabilitation and Neural Repair. Dutch Society for Neurorehabilitation, Belgian Society for Neurorehabilitation and German Society for Neuro- Traumatology and Neurorehabilitation. Maastricht, The Netherlands: May, 2017.



8 Invited talk. Grau-Sánchez, J. Music-supported Therapy in the neurorehabilitation of individuals with stroke. Workshop of the Catalan College of Occupational Therapy. Barcelona, Spain: February, 2017.

9 Scientific poster. Grau-Sánchez, J., Ramos, N., Sierpowska, J., Rueda, N., Redón, S., Veciana de las Heras, M., Särkämö, T., Duarte, E., Rodríguez-Fornells, A. Music-supported Therapy in the neurorehabilitation of motor deficits after a stroke. 4th European Stroke Organisation Conference. European Stroke Organisation. Barcelona, Spain: June, 2016.

10 Oral presentation. Grau-Sánchez, J. Occupational Therapy and music therapy: their neuroscientific basis. I Chilean Congress. Chilean College of Occupational therapists. Viña del Mar, Chile: April, 2013.

C.3. Research projects

1 Project. The role of empathy in the development of moral distress and its implications in the work performance of health care professionals during Covid-19. Bellvitge Biomedical Research Institute. IP: Rodríguez-Fornells, A & Grau-Sánchez, J. Bellvitge Biomedical Research Institute. 01/01/2022 - 31/12/2022. 7.150 €. *Co-principal investigator.*

2 Project. Música en el tratamiento del dolor crónico para reducir el potencial de abuso de fármacos opioides. 2021I068 Plan Nacional sobre Drogas, Ministerio de Sanidad, Gobierno de España. IP: Fernández-Dueñas, V. 01/01/2022 - 31/12/2024. University of Barcelona. 56.117 €. *Team member.*

3 Project. Aprendizaje musical y canto en la recuperación cerebral: eficacia de intervenciones basadas en la música y mejoradas teniendo en cuenta factores sociomotivacionales en la rehabilitación del ictus. Fundació La Marató de TV3. IP: Rodríguez-Fornells, A. Bellvitge Biomedical Research Institute. 31/07/2018 - 31/12/2021. 399.619,54 €. *Team member and coordinator of the clinical trial.*

4 Project. Detección consciente de errores en condiciones normales y patológicas. Ministerio de Economía y Competitividad, Gobierno de España, PSI2015-69178-P. IP: Rodríguez-Fornells, A. Bellvitge Biomedical Research Institute. 01/01/2016 - 31/12/2018. 87.500 €. *Team member.*

5 Project. Impacto de la terapia musical en la mejora motora, emocional y de calidad de vida en pacientes agudos con ictus. Recercaixa, Fundació La Caixa. IP: Rodríguez-Fornells, A. University of Barcelona. 01/02/2015 - 31/01/2017. 75.267,81 €. *Team member and coordinator of the clinical trial.*

6 Project. Cognitive impairment induced by chemotherapy and radiotherapy. Evaluation of the impact and identification of clinical, neurophysiological and functional neuroimaging risk markers. Fundació La Marató de TV3. IP: Rodríguez-Fornells, A. Bellvitge Biomedical Research Institute. 01/01/2012 - 31/12/2014. 199.396 €. *Team member.*

7 Project. Musical therapy induced plasticity in the sensorimotor cortex after stroke. Fundació La Marató de TV3. IPs: Rodríguez-Fornells, A. & Grau, C. University of Barcelona and Münte, T.F. University of Magdeburg. 01/07/2007 - 31/12/2010. 360.182 €. *Team member from 07/2010 – 12/2010.*

8 Research group recognition. Awarded Research Group, Grup Consolidat Generalitat de Catalunya, 2017 SGR 1573. Cognition and Brain Plasticity Group. University of Barcelona. 01/05/2017 – 30/09/2021. 61.192 €. *Team member.*

9 Research group recognition. Awarded Research Group, Grup Consolidat Generalitat de Catalunya, 2014 SGR 1413. Cognition and Brain Plasticity Group. University of Barcelona. 01/01/2014 – 30/04/2017. 30.000 €. *Team member.*

C.4. Technology/Knowledge transfer and exploitation of results

1. Development of an app for home-based music therapy telerehabilitation. Authors: Grau-Sánchez, J., Sánchez-Pinsach, D., Arcos, J.L., and Rodríguez-Fornells, A. Property: Bellvitge Biomedical Research Institute and Artificial Intelligence Research Institute (CSIC). <https://mst.iiia.csic.es/en.html>