

c v n CURRÍCULUM VITAE NORMALIZADO



Jennifer Grau Sánchez

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Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

I am a full-time research professor at the University School of Nursing and Occupational Therapy of Terrassa, affiliated with the Autonomous University of Barcelona. I obtained my PhD in Biomedicine in 2019 from the University of Barcelona, which was awarded an excellent cum laude with an international distinction. In 2022, I founded my own research group, Complex Health Diagnoses and Interventions from Occupation and Care, which has been officially recognised as an emerging research group by the Catalan Government, being a group coordinator under the age of 35.

Throughout my scientific career, I have pursued a coherent research line of translational research focused on musical training in stroke rehabilitation and new multimodal interventions for neurorehabilitation. My research career is characterised by (1) a combination of experimental designs with clinical methodologies; (2) the use of behavioural and clinical measurements together with neurophysiological and neuroimaging techniques; and (3) a consolidated effort to enhance the societal impact of my research.

My translational research focuses on the use of music as a therapeutic tool in the neurorehabilitation of stroke patients, studying both clinical effectiveness and the mechanisms of brain plasticity that promote the recovery of patients. My research shows that Music-supported Therapy is an effective intervention for stroke patients to recover from their upper extremity motor deficits, improve their overall functioning and quality of life, and promote functional brain reorganisation. During my postdoctoral period at Bellvitge Biomedical Research Institute, I led the development of an artificial intelligence app to deliver musical training as a form of telerehabilitation in collaboration with industrial partners. In addition, I have also investigated the plastic mechanisms associated with body representation illusions generated by virtual reality and interventions based on movement sonification for neurorehabilitation. Lately, I have contributed to studying standard inpatient rehabilitation programs for neurological patients. At the international level, I was selected by the prestigious Junior Researcher Programme supported by Cambridge University to lead, as principal investigator, an international project about musical activities and emotional well-being in older adults. I also conducted a three-month research stay at the University of Helsinki (Finland) and did research visits at the University of Lübeck (Germany) and Salzburg University (Austria).

I have participated in eight competitive projects, being a co-principal investigator in one of them and coordinating two clinical trials. I have established a solid network of collaborators, including cognitive neuroscience researchers, clinicians, engineers, and technology companies. I have published 20 scientific articles (6 of them as a corresponding author) that accumulate more than 600 citations, achieving an h-index of 11. I have presented my work at over 20 conferences,



most of them international, including posters and oral sessions. I am currently co-directing a doctoral thesis and have supervised a dozen master thesis and final degree projects from undergraduate students. Additionally, I lead workshops for high and primary school students, and give talks to the general public to disseminate my research. National and international media has featured some of my most prominent research results.

Societal impact is one of the fundamental driving factors in my career. My applied research has the potential to help neurological patients recover lost functions and improve their autonomy and quality of life, potentially reducing their caregivers' burden. Recently, I have been involved in the design of public rehabilitation policies from the Health Department of the Catalan Government, indicating the impact of my research and expertise on health policies. My connections with clinicians and policymakers provide me with a broader view of the challenges of clinical practice and orient my research questions, bridging the gap between researchers and clinicians. My research group's mission, guided by the principles of Responsible Research and Innovation (<https://euit.fdsll.cat/en/research-groups/>), is to enhance evidence-based clinical practice, influence and support public health and social policies, and contribute to a society that is more informed about health processes.



Jennifer Grau Sánchez

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 Name: **Jennifer**
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 Date of birth: **24/07/1988**
 Gender: **Female**
 Nationality: **Spain**
 Country of birth: **Spain**
 Aut. region/reg. of birth: **Catalonia**
 Contact province: **Barcelona**
 City of birth: **Badalona**
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Current professional situation

Employing entity: Fundació per a la Docència Sant Llàtzer **Type of entity:** University Centres and Structures and Associated Bodies

Department: Escola Universitària d'Infermeria i Teràpia Ocupacional de Terrassa

Professional category: Research professor

City employing entity: Terrassa, Catalonia, Spain

Phone: (34) 937837777

Start date: 01/09/2019

Type of contract: Permanent employment contract

Primary (UNESCO code): 249000 - Neurosciences

Secondary (UNESCO code): 320404 - Rehabilitation

Tertiary (UNESCO code): 610601 - Brain function

Identify key words: Cognitive neuroscience; Rehabilitation; Cardiovascular disorders

Previous positions and activities

	Employing entity	Professional category	Start date
1	FUNDACION PRIVADA INSTITUT D'INVESTIGACIO BIOMEDICA DE BELLVITGE (IDIBELL)	Postdoctoral researcher	01/09/2019
2	Universitat de Barcelona	Predocctoral researcher	01/09/2014



	Employing entity	Professional category	Start date
3	Universitat de Barcelona	Research assistant	01/09/2010

1 **Employing entity:** FUNDACION PRIVADA INSTITUT D'INVESTIGACIO BIOMEDICA DE BELLVITGE (IDIBELL)

Professional category: Postdoctoral researcher

Start-End date: 01/09/2019 - 31/12/2021

Duration: 2 years - 3 months - 30 days

2 **Employing entity:** Universitat de Barcelona

Professional category: Predoctoral researcher

Start-End date: 01/09/2014 - 31/12/2018

Type of entity: University

Duration: 4 years - 3 months - 30 days

3 **Employing entity:** Universitat de Barcelona

Professional category: Research assistant

Start-End date: 01/09/2010 - 31/08/2014

Type of entity: University

Duration: 3 years - 11 months - 30 days



Education

University education

1st and 2nd cycle studies and pre-Bologna degrees

- 1 **Name of qualification:** Master in Neuroscience
Degree awarding entity: Universitat de Barcelona **Type of entity:** University
Date of qualification: 24/09/2013
- 2 **University degree:** Posgrado
Name of qualification: Postgraduate in Cognitive Rehabilitation
Degree awarding entity: Instituto Superior de Estudios Psicológicos **Type of entity:** Business
Date of qualification: 01/09/2010
- 3 **Name of qualification:** Bachelor in Occupational Therapy
Degree awarding entity: Universitat Autònoma de Barcelona **Type of entity:** University
Date of qualification: 29/06/2009

Doctorates

Doctorate programme: PhD in Biomedicine
Degree awarding entity: Universitat de Barcelona **Type of entity:** University
Date of degree: 11/01/2019
European doctorate: Yes
Thesis title: Music-supported therapy in the rehabilitation of motor deficits after stroke
Obtained qualification: Excellent Cum Laude
Recognition of quality: Yes

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
Catalan	C2	C2	C2	C2	C2
English	C2	C2	C2	C2	C2
Spanish	C2	C2	C2	C2	C2



Teaching experience

General teaching experience

- 1** **Name of the course:** Disfunciones Neurológicas y Ocupacionales
University degree: Grado en Terapia Ocupacional
Start date: 01/09/2019 **End date:** 01/02/2023
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Faculty, institute or centre: Escuela Universitaria de Enfermería y Terapia Ocupacional de Terrassa
- 2** **Name of the course:** Trabajo Final de Grado
University degree: Grado en Terapia Ocupacional
Start date: 01/09/2019 **End date:** 01/02/2023
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Faculty, institute or centre: Escuela Universitaria de Enfermería y Terapia Ocupacional de Terrassa
- 3** **Name of the course:** Estructura y Función del Cuerpo Humano
University degree: Grado en Terapia Ocupacional
Start date: 01/09/2013 **End date:** 01/02/2023
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Faculty, institute or centre: Escuela Universitaria de Enfermería y Terapia Ocupacional de Terrassa
- 4** **Name of the course:** Prácticas Externas
University degree: Grado en Terapia Ocupacional
Start date: 01/09/2019 **End date:** 30/07/2021
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Faculty, institute or centre: Escuela Universitaria de Enfermería y Terapia Ocupacional de Terrassa
- 5** **Name of the course:** Módulo de Investigación
University degree: Diploma de Posgrado en Teoría y Práctica de la Integración Sensorial
Start date: 01/09/2016 **End date:** 30/07/2021
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Faculty, institute or centre: Escuela Universitaria de Enfermería y Terapia Ocupacional de Terrassa
- 6** **Name of the course:** Módulo Neurología
University degree: Diploma de Posgrado en Teoría y Práctica de la Integración Sensorial
Start date: 01/09/2014 **End date:** 30/07/2021
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Faculty, institute or centre: Escuela Universitaria de Enfermería y Terapia Ocupacional de Terrassa
- 7** **Name of the course:** Bases de Metodología Científica en Ciencias de la Salud
University degree: Grado en Terapia Ocupacional
Start date: 01/09/2013 **End date:** 30/07/2021
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Faculty, institute or centre: Escuela Universitaria de Enfermería y Terapia Ocupacional de Terrassa



- 8** **Name of the course:** Educación para la Salud
University degree: Grado en Terapia Ocupacional
Start date: 01/09/2018 **End date:** 30/07/2019
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Faculty, institute or centre: Escuela Universitaria de Enfermería y Terapia Ocupacional de Terrassa
- 9** **Name of the course:** Practicum II
University degree: Grado en Terapia Ocupacional
Start date: 01/09/2016 **End date:** 30/07/2019
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Faculty, institute or centre: Escuela Universitaria de Enfermería y Terapia Ocupacional de Terrassa
- 10** **Name of the course:** Bioestadística
University degree: Grado en Terapia Ocupacional
Start date: 01/09/2016 **End date:** 30/07/2017
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Faculty, institute or centre: Escuela Universitaria de Enfermería y Terapia Ocupacional de Terrassa

Experience supervising doctoral thesis and/or final year projects

- 1** **Project title:** Trabajo Final de Grado: Efectividad de las intervenciones de terapia ocupacional en la autonomía y calidad de vida de las personas con Esclerosis Múltiple
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Student: Patricia Icart Ballber
Date of reading: 12/05/2022
- 2** **Project title:** Trabajo Final de Grado: Actividades de ocio en víctimas de violencia de genero
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Student: Andrea Gimeno Herranz
Date of reading: 12/05/2021
- 3** **Project title:** Trabajo Final de Grado: La Terapia Ocupacional en las Unidades de Cuidados Intensivos en adultos
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Student: Paula del Río Vidal
Date of reading: 12/05/2021
- 4** **Project title:** Trabajo Final de Grado: Programa de promoción de la normalización de la diversidad funcional en la infancia a través del cuentacuentos
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Student: Leire Sánchez Yañiz
Date of reading: 12/05/2021
- 5** **Project title:** Trabajo Final de Grado: Terapia Ocupacional y Obesidad: efectividad de las intervenciones de Terapia Ocupacional en personas con obesidad o riesgo de padecerla
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Student: Judith Gallego Mur
Date of reading: 12/05/2021



- 6** **Project title:** Trabajo Final de Máster: Homebased Music-supported Therapy in the Improvement of Motor Function and Quality of Life of Chronic Stroke Patients: a Pilot and Feasibility Study
Entity: Universitat de Barcelona **Type of entity:** University
Student: Emma Segura González
Date of reading: 15/09/2020
- 7** **Project title:** Trabajo Final de Máster: Importancia del papel de la enfermería perioperatoria en la realización del checklist quirúrgico
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Student: Joan Prats Pans
Date of reading: 30/06/2020
- 8** **Project title:** Trabajo Final de Máster: La eficacia de la analgesia en el dolor agudo post quirúrgico en pacientes intervenidos de prótesis de rodilla
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Student: Montserrat Serrano Soria
Date of reading: 30/05/2020
- 9** **Project title:** Trabajo Final de Grado: Teràpia amb suport musical per millorar la qualitat de vida de les persones que han tingut un ictus
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Student: Gisela Sabaté Xaus
Date of reading: 22/05/2020
- 10** **Project title:** Trabajo Final de Grado: Efectivitat de les intervencions des de la Teràpia Ocupacional en persones amb estats alterats de consciència
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Student: Marta Vila Juanico
Date of reading: 12/05/2020
- 11** **Project title:** Trabajo Final de Máster: Developing an app to apply Music-Supported Therapy at home during the chronic phase of stroke rehabilitation: a feasibility study
Entity: Universitat de Barcelona **Type of entity:** University
Student: Berta Juan Corbella
Date of reading: 13/09/2019
- 12** **Project title:** Trabajo Final de Grado: Three-dimensional movement analysis in a music-supported therapy for subacute stroke patients
Entity: Universitat de Lleida **Type of entity:** University
Student: Judit Campdepadrós Barrios
Date of reading: 10/09/2019

Teaching experience in courses and seminars for university teacher training

- 1** **Type of event:** Seminar
Name of the event: Experiencia del Colegio de Terapeutas Ocupacionales de Cataluña en la participación del nuevo plan de rehabilitación de Cataluña
Organising entity: Escola Universitària d'Infermeria i Teràpia Ocupacional de Terrassa, centro adscrito a la Universitat Autònoma de Barcelona **Type of entity:** University
Hours of teaching: 1



Teaching date: 23/03/2023

2 Type of event: Seminar

Name of the event: Curs d'Especialització en Atenció Integral i Rehabilitació - Hospitalària, Sociosanitària i Comunitària a la Persona Afectada d'Ictus

Organising entity: FUNDACIO UNIVERSITAT DE GIRONA: INNOVACIO I FORMACIO

Hours of teaching: 2

Teaching date: 03/11/2022

3 Type of event: Course

Name of the event: ENOTHE Student Summer Course: Community Perspectives on Occupation and Implications in a digital society

Organising entity: European Network of Occupational Therapy in Higher Education **Type of entity:** Associations and Groups

Hours of teaching: 20

Teaching date: 27/06/2022

4 Type of event: Seminar

Name of the event: 1er Curs d'atenció integral i rehabilitació – hospitalària, sociosanitària i comunitària - a la persona afectada d'ictus

Organising entity: FUNDACIO UNIVERSITAT DE GIRONA: INNOVACIO I FORMACIO

Hours of teaching: 2

Teaching date: 15/02/2022

5 Type of event: Seminar

Name of the event: Rubber hand illusion on basic movement

Organising entity: Cognition and Brain Plasticity Unit, Universitat de Barcelona **Type of entity:** University

Hours of teaching: 2

Teaching date: 01/10/2021

6 Type of event: Course

Name of the event: ENOTHE Student Summer Course: Digital Perspectives on Occupational Therapy Education

Organising entity: European Network of Occupational Therapy in Higher Education **Type of entity:** Associations and Groups

Hours of teaching: 25

Teaching date: 12/07/2021

7 Type of event: Seminar

Name of the event: Entornos enriquecidos en la rehabilitación del ictus

Organising entity: Servicio de Medicina Física y Rehabilitación, Hospitals del Mar i l'Esperança **Type of entity:** Healthcare Institutions

Hours of teaching: 1

Teaching date: 15/06/2021

8 Type of event: Seminar

Name of the event: 12è Curs d'Atenció d'Infermeria a la persona afectada d'ictus

Organising entity: FUNDACIO UNIVERSITAT DE GIRONA: INNOVACIO I FORMACIO

Hours of teaching: 2

Teaching date: 01/06/2021



- 9** **Type of event:** Seminar
Name of the event: Environmental enrichment in stroke rehabilitation
Organising entity: Cognition and Brain Plasticity Unit, **Type of entity:** University
Universitat de Barcelona
Hours of teaching: 2
Teaching date: 28/05/2021
- 10** **Type of event:** Seminar
Name of the event: La neurociencia tiene sentido para la terapia ocupacional
Organising entity: Escola Universitària d'Infermeria i **Type of entity:** University
Teràpia Ocupacional de Terrassa, centro adscrito a la
Universitat Autònoma de Barcelona
Hours of teaching: 2
Teaching date: 18/05/2021
- 11** **Type of event:** Seminar
Name of the event: Terapia Musical y neuroplasticidad en la rehabilitación de personas que han sufrido un ictus
Organising entity: Escola Universitària d'Infermeria i **Type of entity:** University
Teràpia Ocupacional de Terrassa, centro adscrito a la
Universitat Autònoma de Barcelona
Hours of teaching: 1
Teaching date: 11/03/2021
- 12** **Type of event:** Seminar
Name of the event: Occupational Therapy Practice Framework
Organising entity: Escola Universitària d'Infermeria i **Type of entity:** University
Teràpia Ocupacional de Terrassa, centro adscrito a la
Universitat Autònoma de Barcelona
Hours of teaching: 8
Teaching date: 02/02/2021
- 13** **Type of event:** Seminar
Name of the event: Early-life adversity and neurological disease
Organising entity: Cognition and Brain Plasticity Unit, **Type of entity:** University
Universitat de Barcelona
Hours of teaching: 2
Teaching date: 26/11/2020
- 14** **Type of event:** Seminar
Name of the event: La investigación en el contexto del Covid-19: experiencia desde el campo de la neurociencia y música
Organising entity: Escola Universitària d'Infermeria i **Type of entity:** University
Teràpia Ocupacional de Terrassa, centro adscrito a la
Universitat Autònoma de Barcelona
Hours of teaching: 1
Teaching date: 05/11/2020
- 15** **Type of event:** Seminar
Name of the event: Affect self-regulation and music
Organising entity: Cognition and Brain Plasticity Unit, **Type of entity:** University
Universitat de Barcelona
Hours of teaching: 2



Teaching date: 11/06/2020

16 Type of event: Seminar

Name of the event: Cognitive reserve as an emerging concept in stroke recovery

Organising entity: Servicio de Medicina Física y Rehabilitación, Hospitals del Mar i l'Esperança

Type of entity: Healthcare Institutions

Hours of teaching: 1

Teaching date: 26/05/2020

17 Type of event: Seminar

Name of the event: Terapia con soporte musical y neuroplasticidad en la rehabilitación del ictus

Organising entity: Servicio de Medicina Física y Rehabilitación, Hospital Universitario de Bellvitge

Type of entity: Healthcare Institutions

Hours of teaching: 1

Teaching date: 06/03/2020

18 Type of event: Seminar

Name of the event: Marco de trabajo para el desarrollo y la evaluación de intervenciones complejas

Organising entity: Escola Universitària d'Infermeria i Teràpia Ocupacional de Terrassa, centro adscrito a la Universitat Autònoma de Barcelona

Type of entity: University

Hours of teaching: 2

Teaching date: 04/03/2020

19 Type of event: Curso

Name of the event: Curso introductorio a la integración sensorial.

Organising entity: Centro de Estimulación infantil de Barcelona

Type of entity: Foundation

Hours of teaching: 8

Teaching date: 15/02/2020

20 Type of event: Curso

Name of the event: La pregunta de investigación

Organising entity: Colegio Oficial de Terapeutas Ocupacionales de Cataluña

Type of entity: Associations and Groups

Hours of teaching: 2

Teaching date: 29/11/2019

21 Type of event: Curso

Name of the event: Curso introductorio a la integración sensorial.

Organising entity: Centro de Estimulación infantil de Barcelona

Type of entity: Foundation

Hours of teaching: 8

Teaching date: 15/11/2019

22 Type of event: Seminar

Name of the event: Enriched environment in stroke rehabilitation

Organising entity: Servicio de Medicina Física y Rehabilitación, Hospitals del Mar i l'Esperança

Type of entity: Healthcare Institutions

Hours of teaching: 1

Teaching date: 22/10/2019



- 23** **Type of event:** Seminar
Name of the event: Terapia con soporte musical en la rehabilitación domiciliaria en pacientes crónicos de ictus
Organising entity: Servicio de Medicina Física y Rehabilitación, Hospitals del Mar i l'Esperança **Type of entity:** Healthcare Institutions
Hours of teaching: 1
Teaching date: 16/04/2019
- 24** **Type of event:** Curso
Name of the event: Programa de desarrollo en esclerosis múltiple y migraña, módulo de biología molecular y genética de la migraña.
Organising entity: Medical INSIGHT **Type of entity:** Business
Hours of teaching: 3
Teaching date: 01/12/2018
- 25** **Type of event:** Curso
Name of the event: Proyectos de investigación desde la Terapia Ocupacional
Organising entity: Colegio Oficial de Terapeutas Ocupacionales de Cataluña **Type of entity:** Associations and Groups
Hours of teaching: 15
Teaching date: 27/05/2018
- 26** **Type of event:** Seminar
Name of the event: Lesion mapping in acute stroke aphasia and its implications for recovery
Organising entity: Cognition and Brain Plasticity Unit, Universitat de Barcelona **Type of entity:** University
Hours of teaching: 2
Teaching date: 26/04/2018
- 27** **Type of event:** Seminar
Name of the event: Reporting intervention therapies in stroke rehabilitation
Organising entity: Servicio de Medicina Física y Rehabilitación, Hospitals del Mar i l'Esperança **Type of entity:** Healthcare Institutions
Hours of teaching: 1
Teaching date: 03/04/2018
- 28** **Type of event:** Seminar
Name of the event: Music-Supported Therapy in the Neurorehabilitation of Stroke Patients
Organising entity: Cognition and Brain Plasticity Unit, Universitat de Barcelona **Type of entity:** University
Hours of teaching: 2
Teaching date: 19/01/2018
- 29** **Type of event:** Seminar
Name of the event: Long-term improvements and multimodal rehabilitation in stroke
Organising entity: Servicio de Medicina Física y Rehabilitación, Hospitals del Mar i l'Esperança **Type of entity:** Healthcare Institutions
Hours of teaching: 1
Teaching date: 21/11/2017



- 30** **Type of event:** Seminar
Name of the event: First year after a stroke: participation goals
Organising entity: Servicio de Medicina Física y Rehabilitación, Hospitals del Mar i l'Esperança **Type of entity:** Healthcare Institutions
Hours of teaching: 1
Teaching date: 11/04/2017
- 31** **Type of event:** Seminar
Name of the event: Computational neurorehabilitation: modeling plasticity and learning to predict recovery
Organising entity: Cognition and Brain Plasticity Unit, Universitat de Barcelona **Type of entity:** University
Hours of teaching: 2
Teaching date: 10/11/2016
- 32** **Type of event:** Seminar
Name of the event: Music-supported Therapy in the neurorehabilitation of motor deficits after stroke
Organising entity: Cognition and Brain Plasticity Unit, Universitat de Barcelona **Type of entity:** University
Hours of teaching: 2
Teaching date: 13/06/2016
- 33** **Type of event:** Seminar
Name of the event: Music supported therapy promotes motor plasticity in individuals with chronic stroke
Organising entity: Servicio de Medicina Física y Rehabilitación, Hospitals del Mar i l'Esperança **Type of entity:** Healthcare Institutions
Hours of teaching: 1
Teaching date: 10/05/2016
- 34** **Type of event:** Seminar
Name of the event: The role of music in the elderly and its effects on emotional well-being
Organising entity: Cognition and Brain Plasticity Unit, Universitat de Barcelona **Type of entity:** University
Hours of teaching: 2
Teaching date: 08/04/2016
- 35** **Type of event:** Seminar
Name of the event: Music-supported Therapy in the rehabilitation of motor deficits after a stroke
Organising entity: Cognitive and Brain Research Unit, University of Helsinki **Type of entity:** University
Hours of teaching: 2
Teaching date: 18/02/2016
- 36** **Type of event:** Seminar
Name of the event: Graph analysis of the human connectome: considerations for clinical applications
Organising entity: Cognition and Brain Plasticity Unit, Universitat de Barcelona **Type of entity:** University
Hours of teaching: 2
Teaching date: 12/06/2015



- 37** **Type of event:** Seminar
Name of the event: Models of functional plasticity in stroke: considerations for noninvasive brain stimulation
Organising entity: Cognition and Brain Plasticity Unit, **Type of entity:** University
Universitat de Barcelona
Hours of teaching: 2
Teaching date: 08/11/2014
- 38** **Type of event:** Seminar
Name of the event: Terapia musical en el tratamiento de los déficits motores en el ictus subagudo
Organising entity: Servicio de Medicina Física y **Type of entity:** Healthcare Institutions
Rehabilitación, Hospitals del Mar i l'Esperança
Hours of teaching: 1
Teaching date: 11/02/2014
- 39** **Type of event:** Seminar
Name of the event: Music-supported Therapy to restore motor deficits in stroke patients
Organising entity: Servicio de Medicina Física y **Type of entity:** Healthcare Institutions
Rehabilitación, Hospitals del Mar i l'Esperança
Hours of teaching: 1
Teaching date: 27/11/2013
- 40** **Type of event:** Seminar
Name of the event: Music making and motor cortex excitability in stroke patients: a TMS approach
Organising entity: Cognition and Brain Plasticity Unit, Universitat de Barcelona
Hours of teaching: 2
Teaching date: 18/10/2013
- 41** **Type of event:** Seminar
Name of the event: Bases neurocientíficas de la Terapia Ocupacional y la música en personas que han sufrido un accidente vascular
Organising entity: Universidad de Chile **Type of entity:** University
Hours of teaching: 2
Teaching date: 03/05/2013
- 42** **Type of event:** Seminar
Name of the event: Música y cerebro: aplicaciones terapéuticas
Organising entity: Universitat de Barcelona **Type of entity:** University
Hours of teaching: 1,5
Teaching date: 15/03/2013
- 43** **Type of event:** Seminar
Name of the event: Terapia musical para el ictus.
Organising entity: Fundación Sociosanitaria de **Type of entity:** Foundation
Barcelona
Hours of teaching: 2
Teaching date: 13/11/2012



Scientific and technological experience

Scientific or technological activities

R&D projects funded through competitive calls of public or private entities

- 1** **Name of the project:** Music in chronic pain management to reduce opioid addiction
Entity where project took place: Hospital Universitari de Bellvitge **Type of entity:** Healthcare Institutions
City of entity: L'Hospitalet de Llobregat, Catalonia, Spain
Funding entity or bodies: FUNDACION PRIVADA INSTITUT D'INVESTIGACIO BIOMEDICA DE BELLVITGE (IDIBELL)
Start-End date: 01/01/2022 - 31/12/2024
Total amount: 10.000 €
- 2** **Name of the project:** Música en el tratamiento del dolor crónico para reducir el potencial de abuso de fármacos opioides
Entity where project took place: Hospital Universitari de Bellvitge **Type of entity:** Healthcare Institutions
City of entity: L'Hospitalet de Llobregat, Catalonia, Spain
Name principal investigator (PI, Co-PI....): Víctor Fernández Dueñas
Funding entity or bodies: Ministerio de Sanidad y Consumo **Type of entity:** Administrative Body of the National Health System
Start-End date: 01/01/2022 - 31/12/2024
Total amount: 56.117 €
- 3** **Name of the 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
Entity where project took place: FUNDACION PRIVADA INSTITUT D'INVESTIGACIO BIOMEDICA DE BELLVITGE (IDIBELL)
Name principal investigator (PI, Co-PI....): Antoni Rodríguez Fornells; Jennifer Grau Sánchez
Funding entity or bodies: FUNDACION PRIVADA INSTITUT D'INVESTIGACIO BIOMEDICA DE BELLVITGE (IDIBELL)
Start-End date: 01/01/2022 - 31/12/2022
Total amount: 7.150 €
- 4** **Name of the 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
Entity where project took place: FUNDACION PRIVADA INSTITUT D'INVESTIGACIO BIOMEDICA DE BELLVITGE (IDIBELL)
City of entity: Hospitalet de Llobregat, Catalonia, Spain
Name principal investigator (PI, Co-PI....): Antoni Rodríguez Fornells; Josep Lluís Arcos; Teppo Särkämö
Funding entity or bodies: Ministerio de Economía y Competitividad



Start-End date: 01/01/2018 - 31/12/2020

Total amount: 399.619,54 €

5 Name of the project: Detección consciente de errores en condiciones normales y patológicas. Referencia PSI2015-69178-P.

Entity where project took place: FUNDACION PRIVADA INSTITUT D'INVESTIGACIO BIOMEDICA DE BELLVITGE (IDIBELL)

City of entity: Hospitalet de Llobregat, Catalonia, Spain

Funding entity or bodies:

Ministerio de Economía y Competitividad

Start-End date: 01/01/2016 - 31/12/2018

Total amount: 87.500 €

6 Name of the project: Impacto de la terapia musical en la mejora motora, emocional y de calidad de vida en pacientes agudos con ictus

Entity where project took place: Universitat de Barcelona **Type of entity:** University

City of entity: Hospitalet de Llobregat, Catalonia, Spain

Name principal investigator (PI, Co-PI...): Rodriguez Fornells

Funding entity or bodies:

Recercaixa. Fundació La Caixa

Start-End date: 01/02/2015 - 31/01/2017

Total amount: 75.267,81 €

7 Name of the project: Cognitive impairment induced by chemotherapy and radiotherapy. Evaluation of the impact and identification of clinical, neurophysiological and functional neuroimaging risk markers.

Entity where project took place: FUNDACION PRIVADA INSTITUT D'INVESTIGACIO BIOMEDICA DE BELLVITGE (IDIBELL)

City of entity: Hospitalet de Llobregat, Catalonia, Spain

Funding entity or bodies:

Fundació La Marató de TV3

Start-End date: 01/01/2012 - 31/12/2014

Total amount: 199.396 €



Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1** Jennifer Grau Sánchez; Kevin Jamey; Evangelos Paraskevopoulos; Simone Dalla Bella; Christian Gold; Gottfried Schlaug; Silvie Belleville; Antoni Rodríguez Fornells; Madeleine Hackney; Teppo Särkämö. Putting music to trial: Consensus on key methodological challenges investigating music-based rehabilitation. *Annals of the New York Academy of Sciences*. 1518 - 1, pp. 12 - 24. 30/09/2022. Available on-line at: <<https://doi.org/10.1111/nyas.14892>>.

Type of production: Scientific paper
Position of signature: 1
Total no. authors: 10

Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: Yes
- 2** Eva Llarch Pinell; Anna Monsó Monsó; Joan Ars; Cristina Udina; Marco Inzitari; Jennifer Grau Sánchez. Intervención de terapia ocupacional para la mejora de la autonomía en personas postinfección por SARS-COV-2. *Rehabilitación*. 22/10/2021. Available on-line at: <<https://doi.org/10.1016/j.rh.2021.10.002>>.

Type of production: Scientific paper
Position of signature: 6
Total no. authors: 6

Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: Yes
- 3** Emma Segura; Jennifer Grau Sánchez; David Sanchez Pinsach; Myriam De la Cruz; Esther Duarte; Josep Lluís Arcos; Antoni Rodríguez Fornells. Designing an app for home-based enriched Music-supported Therapy in the rehabilitation of patients with chronic stroke: a pilot feasibility study. *Brain injury*. pp. 1 - 13. 23/09/2021. ISSN 1362-301X
DOI: 10.1080/02699052.2021.1975819
PMID: 34554859

Type of production: Scientific paper
Position of signature: 2
Total no. authors: 7

Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: Yes
- 4** Monique Messaggi Sartor; Jennifer Grau Sánchez; Anna Guillén Solà; Roser Boza; Josep Puig; Cathy Stinear; Andrea Morgado Pérez; Esther Duarte. Intensive rehabilitation programme for patients with subacute stroke in an inpatient rehabilitation facility: describing a protocol of a prospective cohort study. *BMJ Open*. 11 - e046346, 29/07/2021. Available on-line at: <[10.1136/bmjopen-2020-046346](https://doi.org/10.1136/bmjopen-2020-046346)>.

Type of production: Scientific paper
Position of signature: 2
Total no. authors: 8

Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 5** Jennifer Grau Sánchez; Emma Segura; David Sanchez Pinsach; Preeti Raghavan; Thomas F Münte; Anna Marie Palumbo; Alan Turry; Esther Duarte; Teppo Särkämö; Jesus Cerquides; Josep Lluís Arcos; Antoni Rodríguez Fornells. Enriched Music-supported Therapy for chronic stroke patients: a study protocol of a randomised controlled trial. *BMC neurology*. 21 - 1, pp. 19. 12/01/2021. ISSN 1471-2377
DOI: 10.1186/s12883-020-02019-1



PMID: 33435919

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 12

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: Yes

- 6** Esther Duarte; Monique Messaggi Sartor; Jennifer Grau Sánchez; Cindry Ramírez Fuentes; Natàlia Neira; Anna Guillén Solà; Dolores Sánchez Rodríguez; Xavier Duran; Roser Boza; Ester Marco. Cerebral infarct site and affected vascular territory as factors in breathing weakness in patients with subacute stroke. *Journal of rehabilitation medicine*. 52 - 10, pp. jrm00116. (Sweden): 22/10/2020. ISSN 1651-2081

DOI: 10.2340/16501977-2751

PMID: 33043382

Type of production: Scientific paper

Position of signature: 3

Total no. authors: 5

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

- 7** Alba Gomez Andres; Jennifer Grau Sánchez; Esther Duarte; Antoni Rodríguez Fornells; Ana Tajadura Jiménez. Enriching footsteps sounds in gait rehabilitation in chronic stroke patients: a pilot study. *Annals of the New York Academy of Sciences*. 1467 - 1, pp. 48 - 59. 05/2020. ISSN 1749-6632

DOI: 10.1111/nyas.14276

PMID: 31799738

Type of production: Scientific paper

Position of signature: 2

Total no. authors: 5

Format: Journal

Degree of contribution: Author or co-author of article in journal without external admissions assessment committee

- 8** Jennifer Grau Sánchez; Thomas F Münte; Eckart Altenmüller; Esther Duarte; Antoni Rodríguez Fornells. Potential benefits of music playing in stroke upper limb motor rehabilitation. *Neuroscience and biobehavioral reviews*. 112, pp. 585 - 599. 05/2020. ISSN 1873-7528

DOI: 10.1016/j.neubiorev.2020.02.027

PMID: 32092314

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 5

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

- 9** Efthymios Papatzikis; Fathima Zeba; Teppo Särkämö; Rafael Ramirez; Jennifer Grau Sánchez; Mari Tervaniemi; Joanne Loewy. Mitigating the Impact of the Novel Coronavirus Pandemic on Neuroscience and Music Research Protocols in Clinical Populations. *Frontiers in psychology*. 11, pp. 2160. (Switzerland): 2020. ISSN 1664-1078

DOI: 10.3389/fpsyg.2020.02160

PMID: 32982881

Type of production: Scientific paper

Position of signature: 5

Total no. authors: 7

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

- 10** Jennifer Grau Sánchez; Esther Duarte; Neus Ramos Escobar; Joanna Sierpowska; Nohora Rueda; Susana Redón; Misericordia Veciana de Las Heras; Jordi Pedro; Teppo Särkämö; Antoni Rodríguez Fornells. Music-supported therapy in the rehabilitation of subacute stroke patients: a randomized controlled trial. *Annals of the New York Academy of Sciences*. 01/04/2018. ISSN 1749-6632

DOI: 10.1111/nyas.13590



PMID: 29607506

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 10

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

- 11** Jennifer Grau Sánchez; Neus Ramos; Esther Duarte; Teppo Särkämö; Antoni Rodríguez Fornells. Time course of motor gains induced by music-supported therapy after stroke: An exploratory case study. *Neuropsychology*. 31 - 6, pp. 624 - 635. 09/2017. ISSN 1931-1559

DOI: 10.1037/neu0000355

PMID: 28406666

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 5

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

- 12** Jennifer Grau Sánchez; Meabh Foley; Renata Hlavová; Ilkka Muukkonen; Olatz Ojinaga Alfageme; Andrijana Radukic; Melanie Spindler; Bodil Hundevad. Exploring Musical Activities and Their Relationship to Emotional Well-Being in Elderly People across Europe: A Study Protocol. *Frontiers in psychology*. 8, pp. 330. (Switzerland): 2017. ISSN 1664-1078

DOI: 10.3389/fpsyg.2017.00330

PMID: 28373851

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 8

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Corresponding author: Yes

- 13** P Ripollés; N Rojo; J Grau Sánchez; J L Amengual; E Càmara; J Marco Pallarés; M Juncadella; L Vaquero; F Rubio; E Duarte; C Garrido; E Altenmüller; T F Münte; A Rodríguez Fornells. Music supported therapy promotes motor plasticity in individuals with chronic stroke. *Brain imaging and behavior*. 10 - 4, pp. 1289 - 1307. 12/2016. ISSN 1931-7565

PMID: 26707190

Type of production: Scientific paper

Position of signature: 3

Total no. authors: 14

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

- 14** Konstantina Kilteni; Jennifer Grau Sánchez; Misericordia Veciana De Las Heras; Antoni Rodríguez Fornells; Mel Slater. Decreased Corticospinal Excitability after the Illusion of Missing Part of the Arm. *Frontiers in human neuroscience*. 10, pp. 145. (Switzerland): 2016. ISSN 1662-5161

DOI: 10.3389/fnhum.2016.00145

PMID: 27148005

Type of production: Scientific paper

Position of signature: 2

Total no. authors: 5

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

- 15** Clément François; Jennifer Grau Sánchez; Esther Duarte; Antoni Rodríguez Fornells. Musical training as an alternative and effective method for neuro-education and neuro-rehabilitation. *Frontiers in psychology*. 6, pp. 475. (Switzerland): 2015. ISSN 1664-1078

DOI: 10.3389/fpsyg.2015.00475

PMID: 25972820

Type of production: Scientific paper

Format: Journal



Position of signature: 2

Degree of contribution: Author or co-author of chapter in book

Total no. authors: 4

- 16** Julià L Amengual; Thomas F Münte; Josep Marco Pallarés; Nuria Rojo; Jennifer Grau Sánchez; Francisco Rubio; Esther Duarte; Carles Grau; Antoni Rodríguez Fornells. Overactivation of the supplementary motor area in chronic stroke patients. *Journal of neurophysiology*. 112 - 9, pp. 2251 - 2263. 01/11/2014. ISSN 1522-1598

DOI: 10.1152/jn.00735.2013

PMID: 25080571

Type of production: Scientific paper

Format: Journal

Position of signature: 5

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Total no. authors: 9

- 17** Jennifer Grau Sánchez; Julià L Amengual; Nuria Rojo; Misericordia Veciana de Las Heras; Jordi Montero; Francisco Rubio; Eckart Altenmüller; Thomas F Münte; Antoni Rodríguez Fornells. Plasticity in the sensorimotor cortex induced by Music-supported therapy in stroke patients: a TMS study. *Frontiers in human neuroscience*. 7, pp. 494. (Switzerland): 2013. ISSN 1662-5161

DOI: 10.3389/fnhum.2013.00494

PMID: 24027507

Type of production: Scientific paper

Format: Journal

Position of signature: 1

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Total no. authors: 9

- 18** Julià L Amengual; Nuria Rojo; Misericordia Veciana de Las Heras; Josep Marco Pallarés; Jennifer Grau Sánchez; Sabine Schneider; Lucía Vaquero; Montserrat Juncadella; Jordi Montero; Bahram Mohammadi; Francisco Rubio; Nohora Rueda; Esther Duarte; Carles Grau; Eckart Altenmüller; Thomas F Münte; Antoni Rodríguez Fornells. Sensorimotor plasticity after music-supported therapy in chronic stroke patients revealed by transcranial magnetic stimulation. *PloS one*. 8 - 4, pp. e61883. 2013. ISSN 1932-6203

DOI: 10.1371/journal.pone.0061883

PMID: 23613966

Type of production: Scientific paper

Format: Journal

Position of signature: 5

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Total no. authors: 17

- 19** Jennifer Grau Sánchez; Loreto González Román; Inda Zango Martín. Instrumentos de valoración en terapia ocupacional: guía para la práctica profesional e investigación. *Fundació per a la Docència Sant Llàtzer. Escola Universitària d'Infermeria i Teràpia Ocupacional de Terrassa*, 15/12/2022.

Type of production: Scientific book or monograph

Format: Book

Position of signature: 1

Degree of contribution: Author or co-author of entire book

Total no. authors: 3

Corresponding author: Yes



Works submitted to national or international conferences

- 1** **Title of the work:** Enriched Music-Supported Therapy in the rehabilitation of individuals with chronic stroke
Name of the conference: The Neurosciences and Music VII
Corresponding author: Yes
City of event: Aarhus, Denmark
Date of event: 18/06/2021
End date: 21/06/2021
Organising entity: Fondazione Pierfranco e Luisa Mariani **Type of entity:** Foundation
Jennifer Grau Sánchez.
- 2** **Title of the work:** 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
Name of the conference: Congreso Internacional de Terapia Ocupacional, CITO
Corresponding author: Yes
City of event: Sant Joan d'Alacant, Valencian Community, Spain
Date of event: 10/05/2021
End date: 12/05/2021
Anna Monsó Monsó; Eva Llarch Pinell; Jennifer Grau Sánchez.
- 3** **Title of the work:** Facing issues and discussing solutions during the COVID-19 era: An
Name of the conference: Music and Neuroscience
City of event: Congreso virtual, United Arab Emirates
Date of event: 15/04/2020
Organising entity: Canadian University of Dubai **Type of entity:** University
Jennifer Grau Sánchez.
- 4** **Title of the work:** Terapia con soporte musical y neuroplasticidad en la rehabilitación del ictus
Name of the conference: Jornadas Científicas de Neurorehabilitación
City of event: Vigo, Galicia, Spain
Date of event: 26/10/2018
End date: 27/10/2018
Organising entity: Sociedad española de neurorehabilitación **Type of entity:** Associations and Groups
Jennifer Grau Sánchez.
- 5** **Title of the work:** Terapia con soporte musical
Name of the conference: XXVIII Jornadas científicas en Rehabilitación y Medicina Física
City of event: Barcelona, Catalonia, Spain
Date of event: 16/03/2018
Organising entity: ciudad catalana de Rehabilitación y Medicina **Type of entity:** Associations and Groups
Jennifer Grau Sánchez.
- 6** **Title of the work:** Music-Supported Therapy in the rehabilitation of subacute stroke patients
Name of the conference: 2nd Biomed PhD Day
City of event: Barcelona, Catalonia, Spain



Date of event: 12/12/2017

Organising entity: Universitat de Barcelona
Jennifer Grau Sánchez.

Type of entity: University

7 Title of the work: La terapia con soporte musical en la neurorehabilitación de personas que han sufrido un ictus

Name of the conference: Jornadas del Colegio oficial de Terapeutas Ocupacionales de

City of event: Barcelona, Catalonia, Spain

Date of event: 17/02/2017

Organising entity: Colegio Oficial de Terapeutas
Ocupacionales de Cataluña

Jennifer Grau Sánchez.

Type of entity: Associations and Groups

8 Title of the work: Terapia Ocupacional, Terapia Musical. ¿Qué fundamentos existen desde las Neurociencias?

Name of the conference: I Congreso Chileno de Terapia Ocupacional y VIII Jornadas Nacionales de Terapia Ocupacional

City of event: Viña del Mar, Chile

Date of event: 17/04/2013

End date: 19/04/2013

Organising entity: Colegio de Terapeutas
Ocupacionales de Chile

Type of entity: Associations and Groups

R&D management and participation in scientific committees

Scientific, technical and/or assessment committees

1 Committee title: Comité asesor para el Plan de Rehabilitación del Departament de Salut
Affiliation entity: Colegio Oficial de Terapeutas Ocupacionales de Cataluña
City affiliation entity: Barcelona, Catalonia, Spain
Start-End date: 01/05/2021 - 28/09/2021
Type of entity: Associations and Groups

2 Committee title: Comisión Científica
Affiliation entity: Colegio Oficial de Terapeutas Ocupacionales de Cataluña
City affiliation entity: Barcelona, Catalonia, Spain
Start-End date: 01/04/2018 - 01/10/2020
Type of entity: Associations and Groups

3 Committee title: Comisión para la creación del código deontológico del Colegio Oficial de Terapeutas Ocupacionales de Cataluña
Affiliation entity: Colegio Oficial de Terapeutas Ocupacionales de Cataluña
City affiliation entity: Barcelona, Catalonia, Spain
Start-End date: 01/04/2014 - 17/10/2017
Type of entity: Associations and Groups



Other achievements

Stays in public or private R&D centres

Entity: University of Helsinki
Faculty, institute or centre: Cognitive Brain Research Unit, Institute of Behavioral Sciences
City of entity: Helsinki, Finland
Start-End date: 30/11/2015 - 26/02/2016
Goals of the stay: Doctorate
Type of entity: University
Duration: 3 months

Obtained grants and scholarships

Name of the grant: Ayuda para estancias de investigación predoctorales
Aims: Pre-doctoral
Awarding entity: Universitat de Barcelona
Conferral date: 19/10/2015
Entity where activity was carried out: University of Helsinki
Faculty, institute or centre: Cognitive Brain Research Unit, Institute of Behavioral Sciences
Type of entity: University

Scientific societies and professional associations

Name of the society: Consejo Deontológico
Affiliation entity: Colegio Oficial de Terapeutas Ocupacionales de Cataluña
City affiliation entity: Barcelona, Catalonia, Spain
Start-End date: 01/04/2018 - 01/05/2021
Type of entity: Associations and Groups

Obtained accreditations/recognitions

Description: Profesora Contratada Doctora
Accrediting entity: Agencia Nacional de Evaluación de la Calidad y Acreditación
City accrediting entity: Spain
Date of recognition: 07/09/2021
Type of entity: Agencia Nacional