

ICREA - CATALAN INSTITUTION FOR RESEARCH AND ADVANCED STUDIES
 Cognition and Brain Plasticity Unit (CBPU)
 Department of *Cognition, Development and Education Psychology*
 UNIVERSITY OF BARCELONA (UB, Health Campus Bellvitge)
 BELLVITGE BIOMEDICAL RESEARCH INSTITUTE (IDIBELL)

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Degrees awarded:

Licenciatura 09/91 Psychology – University of Barcelona
 Ph. D. 07/96 Psychology – University of Barcelona

RESEARCH EXPERIENCE AND ACADEMIC POSITIONS:

	INSTITUTION (COUNTRY)	POSITION	AREA OF RESEARCH
02/09/24 - 4/07/25	IMERA - Institut d'Etudies Avancées d'Aix-Marseille Université. ILCB (Institute of Language, Communication and the Brain)	FIAS - French Institutes for Advanced Study Fellowship	<i>Cognitive Neuroscience</i>
01/09/18 - 31-08/19	Dept. Neuroscience, Zuckerman Institute. Columbia University	Visitant Research Scholar	<i>Cognitive Neuroscience</i>
01/02/04 - present	Dep. Cognition, Development and Education Psychology. University of Barcelona	ICREA research professor	<i>Cognitive Neuroscience</i>
01/09/03 - 31/09/04	Dep. Psychology. University Balearic Islands	Visitant professor	<i>Cognitive Neuroscience</i>
01/05/02 - 31/08/03	Dep. Basic Psychology. University of Barcelona	Ramon y Cajal research position	<i>Cognitive Neuroscience</i>
01/01/01 - 31/04/02	Dep. Neuropsychology. Otto-von Guericke University. Magdeburg. Germany	Postdoctoral contract	<i>Cognitive Neuroscience</i>
01/01/99 - 31/12/00	Dep. Neurology II. Otto-von Guericke University. MHH Hannover. Germany	MEC (Spanish Postdoctoral program)	<i>Cognitive Neuroscience</i>
01/10/96 - 31/12/98	Institut de Recerca de la Hospital de la Santa Creu i Sant Pau Barcelona. Spain	Postdoctoral position	<i>Psychophysiology & Psychopharmacology</i>
01/09/96 - 31/12/98	Dep. Personality. University Barcelona. Spain	Associate Professor	<i>Individual differences</i>
01/06/95 - 31/07/95	Experimental Psychology University of Groningen. Netherlands	Predoctoral	<i>Psychophysiology</i>
01/01/92 - 31/07/96	Dep. Personality. University Barcelona. Spain	Predoctoral	<i>Psychophysiology & Individual differences</i>

FELLOWSHIPS AND GRANTS

Recent fellowships

- French Institutes for Advanced Study (FIAS) / IMÉRA chair** – Language, Communication, and the Brain: Interdisciplinary Explorations (ILCB, Aix-Marseille. Title: Language information-seeking in infants: behavioral and neural evidence. From 1-9-2024 to 4-7-2025. FIAS fellowship Program, co-funded by the European Commission, Marie-Sklódowska-Curie Actions - COFUND Program, Grant n°945408
- HORIZON-HLTH-2024-DISEASE-03-08-two-stage. **FALCO**: Fighting Addictions, improving Lives: Comprehensive drug rehabilitation with music. Budget: 9.000.000 EUR. PI: C. Gold (NORCE). Co-PI: Rodriguez-Fornells budget app. 490.000 €. Duration: Jan. 2025 – Dec. 2029.
- HORIZON-CL4-2023-HUMAN-01-CNECT [Next Generation eXtended Reality (RIA)]. Title: A toolset for hyper-realistic and XR-based human-human and human-machine interactions **PRESENCE** (REF: 101135025). Budget: 7.655.707 EUR. Co-PIs: M. Slater & Rodriguez-Fornells, A., budget 500.000 €. Duration: Jan. 2024 - Dec. 2026.
- Ministerio de Ciencia, Innovación y Universidades (2022-2026, call Proyectos de Generación de Conocimiento 2021). Reference PID2021-127130NB-I00. Neural evidence on the involvement of self-monitoring and intrinsic value in information seeking and avoidance. Fundacion privada Institut d'Investigacio Biomedica de Bellvitge (IDIBELL). PI: A. Rodriguez-Fornells. Amount of money 196.988 € (plus a 4-year predoctoral grant).
- CBP** (Grup de Cognició i Plasticitat Cerebral / Cognition and Brain Plasticity Group). Awarded Advanced Catalan Research Group, “Grup Consolidat Generalitat de Catalunya”, 2021 SGR 01099). Coordinator: A. Rodriguez-Fornells. University of Barcelona. Amount of money 60.000 € (2022-2024).
- Ministerio de Sanidad (2022-2024, Plan Nacional sobre Drogas). Reference 2021I068. Facultad de Medicina y Ciencias de la Salud (Universidad de Barcelona). Title: The application of Music for chronic pain treatment and reducing opioid abuse. PI: Victor Fernandez-Dueñas. Amount of money 56.117 €.

7. PECT-II-IDIBELL. Internal COVID-19 call for Innovation Projects (2021-2022). Title: The role of empathy in the development of moral distress and its implications in the work performance of health care professionals during Covid-19 (EMDIC). Pls: A. Rodriguez-Fornells & J. Grau-Sanchez. Amount of money 7150 €.
8. Ministerio de Ciencia, Innovación y Universidades (expected beginning September 2019, approved for three years). Reference PGC2018-099859-B-I00. Knowledge drive is supported by internally triggered reward-motivated mechanisms: neural evidences. Fundacion privada Institut d'Investigacio Biomedica de Bellvitge (IDIBELL). PI: A. Rodriguez-Fornells. Amount of money 133.100 € (+ FPI predoctoral grant).
9. GRAMMY Museum Grants Program awards (2018-2019), 20000 US \$. Title: "Now you like it, now you don't: modulation of musical pleasure through a pharmacological approach". Main resercher: Robert Zatorre.
10. La Marato-TV3-2016. Strokes and traumatic spinal cord and brain injury program (2018-2020). Title: Playing and Singing for the Recovering Brain: Efficacy of Enriched Social-Motivational Musical Interventions in Stroke Rehabilitation (Pls: Rodriguez-Fornells, IDIBELL; T. Särkämö, Univ. Helsinki and J.L. Arcos, UAB). Amount of money: 399.619 €.
11. CBP (Grup de Cognició i Plasticitat Cerebral / Cognition and Brain Plasticity Group). Awarded Advanced Catalan Research Group, "Grup Consolidat Generalitat de Catalunya", 2017 SGR 1573). Coordinator: A. Rodriguez-Fornells. University of Barcelona. Amount of money 61.192 € (2018-2020).
12. Ministerio de Economía y Competitividad (duration from 01/01/2016 to 31/12/2018). Reference PSI2015-69178-P (MINECO/FEDER). Consciouss detection of errors in normal and pathological conditions. Fundacion privada Institut d'Investigacio Biomedica de Bellvitge (IDIBELL). PI: A. Rodriguez-Fornells. Amount of money 105.875,00 € (+ FPI predoctoral grant).
13. CBP (Cognition and Brain Plasticity Group). Awarded Advanced Catalan Research Group, "Grup Consolidat Generalitat de Catalunya", 2014SGR1413). Coordinator: A. Rodriguez-Fornells. University of Barcelona. Amount of money 30.000 € (January 2015- March 2017).
14. RECERCAIXA (Obra Social La Caixa) (2015-1017). Impact of the music supported therapy on the emotional improvement and quality of life in acute stroke patients. PI: A. Rodriguez-Fornells. Amount of money 75.267 €.
15. Bial Fundação. Bursaries for Scientific Research (01/01/2015 - 31/12/2016). Induced brain plasticity after perinatal stroke: structural and functional connectivity. University of Barcelona. PI: A. Rodriguez-Fornells. Amount of money 48.000 €.
16. Language Learning's Small Grants Research Program (2014; sponsored by the *Language Learning: A Journal of Research in Language Studies*). Speech Segmentation in Left Hemisphere Stroke: A Voxel Lesion-Symptom Mapping Study. University of Barcelona. PI: A. Rodriguez-Fornells. Amount of money: U.S. \$10,000.00.
17. La Marato-TV3-2010. Acquired Spinal Cord and Brain Injuries Program (2012-2015). Cognitive impairment induced by chemotherapy and radiotherapy. Evaluation of the impact and identification of clinical, neurophysiological and functional neuroimaging risk markers. Fundacion privada Institut d'Investigacio Biomedica de Bellvitge (IDIBELL). PI: A. Rodriguez-Fornells. 199.396 €.
18. Ministerio de Ciencia e Innovación (MICINN, I+D+i, 2012-2015). The influence of non-conscious emotional processing in cognitive control. A functional neuroimaging approach. Reference: PSI2011-29219. Fundacion privada Institut d'Investigacio Biomedica de Bellvitge (IDIBELL). PI: A. Rodriguez-Fornells. Amount of money 141.570 € (+ FPI).
19. Spanish Network in Cognitive Sciences ("Red Temática en Ciencias Cognitivas"). Ministerio de Ciencia e Innovación. PI: Antoni Gomila (University of Balearic Islands). Reference: FFI2010-09796-E. Amount of money 75.000 €
20. La Marato TV3-2008. Mental Diseases Program (2010-2012). Neurophysiological correlates of reward processing and cognitive control in Borderline Personality Disorder patients with and without self-harm history. Pls: J. Marco Pallares. Fundacion privada Institut d'Investigacio Biomedica de Bellvitge (IDIBELL). Amount of money 120.000 €.
21. NECOM (Awarded Research Group, Grup Consolidat Generalitat de Catalunya, 2009 SGR 93). Neurodynamics of Cognition and Mental disorders. PI: A. Rodriguez-Fornells. University of Barcelona. Amount of money 57.200 €
22. Ministerio de Ciencia e Innovación (MICINN, I+D+i, 2008-2011). Neural correlates associated to the detection and correction of conscious and unconscious erroneous responses. Reference: PSI2008-03901/PSIC. Fundacion privada Institut d'Investigacio Biomedica de Bellvitge (IDIBELL). PI: A. Rodriguez-Fornells. Amount of money 102.400 € (+ FPI).
23. La Marato TV3-2005. Neuroscience Program (2007-2010). Musical-therapy induced plasticity in the sensorimotor cortex after stroke. Pls: Antoni Rodriguez-Fornells (University of Barcelona), T.F. Münte (Univ. Magdeburg) and C. Grau (UB). Amount of money 360.182 €
24. Proyectos de Investigación de Excelencia de la Junta de Andalucía (2008). Diagnóstico y acción en situaciones inciertas (Assessment and action under uncertainty conditions). PI: F.J. Lopez Gutierrez (Univ. de Malaga). P08-SEJ-04161. Amount of money: 236.845 €.
25. NECOM (Awarded Research Group, Grup Consolidat Generalitat de Catalunya, SGR2005-00831). Neurodynamics of Cognition and Mental disorders. PI: Carles Grau.
26. Ministerio de Educación y Ciencia (MEC, 2005-2008). Neural mechanisms of word learning, meaning acquisition and brain plasticity. A new neuroimaging approach combining different techniques (ERPs, fMRI and DTI). Reference: SEJ2005-06067/PSIC. PI: A. Rodriguez-Fornells. Amount of money 30.000 €
27. Volkswagenstiftung (2005-2007). Dynamics of human executive functions and their relation to genotypes in the dopaminergic system. European coordinated program: T.F Münte (Univ. Magdeburg), L. Schols (Univ. Tübingen) and A. Rodriguez-Fornells (UB).
28. Govern Balear (projecte R+D+i, 2005-2006). Detecció del deterioro cognitivo leve en el envejecimiento normal y patológico. PI: F. Barceló (UIB).
29. Ministerio de Ciencia y Tecnología (MCYT, 2002-2005). Bilingual simulation of language acquisition: evidences using functional neuroimaging (ERPs and e-fMRI). Reference: BSO2002-01211. PI: A. Rodriguez-Fornells. Amount of money 40.000 € + FPI predoctoral grant associated, 4 years).
30. Acción especial MCYT-2004, referencia BSO2002-12318-E. Cognitive Neuroscience and aging. PI: F. Barceló, University of Balearic Islands (UIB). Amount of money 7.200 €.

Past fellowships

1. Deutsche Forschungsgemeinschaft (DFG project) since 01/01/01. The interaction of syntax, semantics and working memory. A spatio-temporal imaging approach. DFG MU1311/9-1 awarded to T.F. Münte and the same project also cofunded by NOW to B. Schmitt, Maastricht University.
2. Deutsche Forschungsgemeinschaft (DFG project). Spatial and temporal neuroimaging of human error monitoring. PI: T.F. Münte.
3. Postdoctoral grant: Ministerio de Educación y Ciencia (MEC, Spain). 01/01/99–31/12/00. Dept. of Neurology II, Otto-von Guericke University, Magdeburg, Germany. Superv.: Prof. Dr. T.F. Münte. Research topic: Functional neuroimaging of language processes using event-related brain potentials and magnetic resonance imaging.

4. Neural correlates of the processing of complex words. NATO International Scientific Exchange programmes. Program: Collaborative Research Grant. Ref: CRG970636. Period: 1997-2000. Pls: T. F. Münte, H. Clahsen y A. Rodríguez Fornells. Research topic: Event related potentials (ERP) and psycholinguistics.
5. Postdoctoral grant. Funding agency: Institut de Recerca de la Santa Creu i Sant Pau (Spain). 1996-1998. Host superv.: Dr. M. Barbanj. Res. topic: Psychophysiology and psychopharmacology.
6. Ministerio de Sanidad y Consumo (Spain). Program: Fondo de Investigación Sanitaria (FIS). Ref: 99/0502. Period: 1999-2001. PI: Dr. M. Barbanj Rodríguez. Res. topic: Startle-reflex, psychophysiology, fear-induced startle reflex, anxiolytic and anxiogenic activity.
7. Predoctoral grant (Beca de col.laboració docent). Funding agency: Divisió de Ciències de la Salut. Universitat de Barcelona (Spain). Supervisor: Dr. A. Andrés Pueyo. Research topic: Individual differences and psychophysiology.

AWARDS

- 2002 Ramon y Cajal Research program national award.
 2004 Susanne Klein-Vogelbach-Prize for the Research on human movement.
 2004 ICREA Research Professorship position.
 2024 IMERA chair / French Institutes for Advanced Study (FIAS) on Language, Communication, and the Brain: Interdisciplinary Explorations (ILCB, Aix-Marseille)

PUBLICATIONS

BOOK editor (in process, expected 2026):

Dalla Bella, S., Särkämö, T., Gold, C., Rodríguez-Fornells, A. (Eds.) Music-base interventions for rehabilitation of neurological and neurodevelopmental disorders. A new perspective. Oxford University Press (to be published in 2026).

Research articles:

2026

1. Navarro, L., Mallah, N., Pardo-Seco, J., Gomez-Carballa, A., Pischedda, S., Nowak, W., Segura, E., Rodríguez-Fornells, A., Martinon-Torres, F., & Salas, A., (2026). Systematic review and meta-analysis reveal positive therapeutic effects of music in brain damage rehabilitation. **Frontiers in Integrative Neuroscience**.
2. François, C., Ferreri, L., Garcia-Alix, A., Rodríguez-Fornells, A. & Bosch, L. (2026). Evidence for a role of memory in novel word-learning deficit after perinatal stroke. **Brain and Language**.
3. Jacobs, B., Olivé, G., Rico, I., Rodríguez-Fornells, A., & Peñalosa, C. (2026). Discourse abilities in post-stroke aphasia: A multi-level analysis of macro and micro- structural discourse properties and their white matter neural correlates. **Cortex**.
4. Talamini, Grassi et al., (2026). Music Ensemble: a large dataset on musicianship, cognition, and personality in musicians and nonmusicians. **Scientific Data**.
5. Matamala, M., Vila, A., Cucurell, D., Tajadura, A., Rodríguez-Fornells, A. (2026). Frequency tagging in the sensorimotor cortex is enhanced by auditory compared to visual body movement information in a walking movement integration task. **Psychophysiology**
6. De Diego-Balaguer R., Olive, G., Mestres-Missé A., Alvarez-Martin, C., Nogueira-Teixeira, E., Lemoine L., Rodríguez-Fornells A., Bachoud-Lévi A.C. (2026). A Deficit in semantic word learning in Huntington's Disease. **Neuropsychologia**.

2025

7. Zappa, A., Slater, A., Rodríguez-Fornells, A. (2025). Social interaction shapes and boosts second language learning: virtual reality can show us how. **Science of Learning**.
8. Zappa, A., Osokina, P., Cerda, X., Cucurell, D., Mateu, M., Rodríguez-Fornells, A. (2025). The effects of reliable social feedback on language learning: insights from EEG and pupillometry. **Journal of Cognitive Neuroscience**
9. Zappa, A., Leon-Cabrera, P., Ramos-Escobar, N., Laine, M., Rodríguez-Fornells, A., François, C. (2025). Alpha and beta desynchronization during consolidation of newly learned words. **Neuroimage**.
10. Fernández-Dueñas, V., Rodríguez-Fornells, A., Grau-Sánchez, J. (2025). The therapeutic use of music for chronic pain: A psychological and neurobiological perspective. **Frontiers in Pain Research**
11. Hernandez, M., Gassa, A., Gomez-Andres, A., Lao, R., Rico, I., Juncadella, M., Camins, A., Rodríguez-Fornells, A., Gabarros, A. (2025). Language-specific regions in the supplementary motor area: Evidence from verb generation during electrical stimulation mapping. **Brain and Language**.
12. Sierpowska, J., Grau-Sanchez, J., Ramos, N., Sihvonen, A., Sammler, D., Särkämö, T., Gabarros, A., Rodríguez-Fornells, A. Music and Affective Prosody after Surgical Removal of the Right Arcuate Fasciculus: A Case Study. **Annals of the New York Academy of Sciences**.
13. Rodríguez-Fornells, A., Grau-Sanchez, J., François, C. (2025). Against a "Lego Perspective" on Art and Health interventions. **Physics of Life Reviews**.
14. Rodríguez-Fornells, A. & François, C. (2025). Music self-projection in a minor mode. **Physics of Life Reviews**.
15. Laine, M., Peñalosa, C., Eräste, T., Kunnari, A., Rodríguez-Fornells, A. (2024). Spontaneous strategies used during novel word learning. **Language Learning**.
16. Grassi, M., Talamini, F., Altoè, G., Brattico, E., Caclin, A., Carretti, B., Draï-Zerbib, V., Ferreri, L., Gambarota, F., Grahn, J., Guiotto Nai Fovino, L., Roccato, M., Rodríguez-Fornells, A. et al. (2025). Do Musicians Have Better Short-Term Memory Than Nonmusicians? A Multilab Study. **Advances in Methods and Practices in Psychological Science**.

2024

17. Carraturo, G., Ferreri, L., Cardona, G., Lorenzo-Seva, U., Rodríguez-Fornells, A., Brattico, E. (2004). The Italian Version of the extended Barcelona Music Reward Questionnaire (eBMRQ): A Validation Study and Association with Age, Gender, and Musicianship. **PeerJ**
18. Flores-García, M., Flores de los Heros, A., Aso, E., Otero-López, P., Ciruela, F., Videla, S., Grau-Sánchez, J. Rodríguez-Fornells, A., Bonaventura, J., Fernández-Dueñas, V. (2024). Dopamine dynamics in chronic pain: music-induced sex-dependent behavioral effects in mice. **Pain Reports**.
19. Segura, E, Grau-Sánchez, J., Cerda, X., Porto, MF, De la Cruz-Puebla, M., Sanchez-Pinsach, D., Cerquides, J., Duarte, E., Palumbo, A., Turry, A., Raghavan, P., Särkämö, T., Münte, TF., Arcos, JL., Rodríguez-Fornells (2024). Enriched Music-supported Therapy for Individuals with Chronic Stroke: A Randomized Controlled Trial. **Journal of Neurology**.
20. Sala-Padro, J., de la Cruz, M., Miró, J., Cucurell, D., López-Barroso, D., Vilà-Balló, A., Plans, G., Santurino, M., Falip, M., Rodríguez-Fornells, A., Càmara, E. (2023). De novo depression following temporal lobe epilepsy surgery. **Seizure**.
21. Simo, Rodríguez-Fornells, A., Navarro, V., Navarro-Martín, A., Nadal, E. & Bruna, J. (2024). Mitigating Radiation-Induced Cognitive Toxicity in Brain Metastases: More Questions Than Answers. **Neurooncology Advances**
22. Cepero-Escribano, V., Cerda-Company, X., León-Cabrera, P., Olivé, G., Cucurell, D., Gasa-Roqué, A., Gabarrós, A., Naval-Baudins, P., Camins, A., Rico, I., Fernández-Coello, A., Sierpowska, J., Rodríguez-Fornells, A. Can the knight capture the queen? The role of supramarginal gyrus in chess rule-retrieval as evidenced by a novel combined awake brain mapping and fMRI protocol. **Cortex**
23. Riemann, S., van Lück, J., Rodríguez-Fornells, A., Flöel, A., Meinzer, M. (2024). Investigating regional and temporal specificity of focal transcranial direct current stimulation on novel-word learning. **Cortex**.
24. Segura E, Vila-Batló A, Mallorquí, A., Porto, MF, Duarte, E., Grau-Sanchez J, & Rodríguez-Fornells, A. (2024). The presence of anhedonia in individuals with subacute and chronic stroke: an exploratory cohort study. **Frontiers in Aging Neuroscience**.
25. León-Cabrera, P., Hjortdal, A., Gosselke, S., Rodríguez-Fornells, A., & Roll, M. (2004). Neurophysiological signatures of prediction in language: a critical review of anticipatory negativities. **Neuroscience and Biobehavioral Reviews**.
26. François, C., Rodríguez-Fornells, A., Agut, T., & Bosch, L. (2024). Impact of late to moderate preterm birth on minimal pair word-learning. **Child Development**
27. Gomez-Andres, Cerda, X., Cucurell, D., Cunillera, T & Rodríguez-Fornells, A. (2024). Decoding Agency Attribution using single trial error-related brain potentials. **Psychophysiology**.

2023

28. Vavra, P., Sokolovič, L., Porcu, E., Ripollés, P., Rodríguez-Fornells, A., Noesselt, N. (2023). Entering into a self-regulated learning mode prevents detrimental effects of feedback removal on memory. **Science of Learning**.
29. Mas-Herrero, E., Ferreri L., Cardona, G., Zatorre, R.J., Pla, F., Riba, J., Valle, M., Rodríguez-Fornells, A. (2023). The role of opioid transmission in music-induced pleasure. **Annals of the New York Academy of Sciences**.
30. Olivé, G., Peñalozza, C., Vaquero, L., Laine, M., Martin, N., & Rodríguez-Fornells, A. (2023). The Right uncinata fasciculus supports verbal short-term memory in aphasia. **Brain Structure and Function**
31. Elmer, S., Besson, M., Rodríguez-Fornells, A. & Giroud, N. (2023). New word learning induces fast reconfiguration of EEG-base resting-state networks. **Neuroimage**
32. Grau-Sánchez J, Serrano A, Villoria J, Carnaval T, Porto MF, Zapata L, Flores-García M, Segura E, Garrido-Pedrosa J, Rodríguez-Fornells A, Fernández-Dueñas V & Videla S (2023). Effect and Safety of Listening to Music or Audiobooks as a Coadjuvant Treatment for Chronic Pain Patients Under Opioid Treatment: A Study Protocol for an Open-Label, Parallel-Group, Randomised, Controlled, Pilot Clinical Trial. **BMJ Open**.
33. Gasa-Roqué, A., Rofes, A., Juncadella, M., Rico, I., Camins, A., Gabarrós, A., Rodríguez-Fornells, A., Joanna Sierpowska. Understanding language and cognition after brain surgery - tumor grade, fine-grained assessment tools and, most of all, individualized approach. **Journal of Neuropsychology**.
34. Navarrete, L., Cerda, X., Olive, G., Laine, M., Martin, N., Rodríguez-Fornells, A., Peñalozza, C. (2023). Expressive recall and recognition as complementary measures to assess novel word learning ability in aphasia. **Brain and Language**
35. Gurtubay, A., Bruña, R., Colignon, O., Rodríguez-Fornells, A. (2023). Tactile expectancy modulates occipital alpha oscillations in early blindness. **Neuroimage**.

2022

36. Vila-Batllo, A., De la Cruz-Puebla, M., Lopez-Barroso, D., Miro, J., Cucurell, D., Falip, M., Rodríguez-Fornells, A. (2022). Reward-based decision making in processing in mesial Temporal Lobe Epilepsy patients with unilateral hippocampal sclerosis pre- and post-surgery: behavioral and neurophysiological correlates. **Neuroimage Clinical**.
37. Elmer, S., Besson, M. & Rodríguez-Fornells, A. (2022). The Electrophysiological correlates of word pre-activation during associative Word Learning. **Journal of Psychophysiology**.
38. Gomez-Andres, A., Cunillera, T., Rico, I., Naval-Baudin, P., Camins, A., Fernandez-Coello, Gabarros, A. & Rodríguez-Fornells, A. (2022). The role of the insular cortex in Self-monitoring: A novel study protocol with electrical stimulation mapping and functional magnetic resonance imaging. **Cortex**.
39. Peñalozza, Martin, N., Laine, M., Rodríguez-Fornells. (2022). Language learning in aphasia: A narrative review and critical analysis of the literature with implications for language therapy. **Neuroscience and Beh. Reviews**.
40. Grau-Sánchez, J., Jamey, K., Paraskevopoulos, E., Dalla Bella, S., Gold, C., Rodríguez-Fornells, A., Hackney, ME, Särkämö, T. (2022). Putting Music to Trial: Consensus on Key Methodological Challenges Investigating Music-based Rehabilitation. **Annals of the New York Academy of Sciences**.
41. Ferreri, L. & Rodríguez-Fornells, A. (2022). Memory modulations through musical pleasure. **Annals of the New York Academy of Sciences**.
42. Cardona, G., Ferreri, L., Lorenzo-Seva, U., Russo, F., Rodríguez-Fornells, A. (2022). The forgotten role of music absorption in music reward processing. **Annals of the New York Academy of Sciences**.

43. Leon-Cabrera, P., Rodríguez-Fornells, A., Moris, J., & Piai, V. (2022). Alpha oscillatory activity associated to language prediction during written and spoken comprehension. **Neuropsychologia**.
44. Leon-Cabrera, P., Guillaumon, A., Cucurell, D., & Rodríguez-Fornells, A. (2022). The beauty of language structure: a single-case fMRI study of palindrome creation. **Journal of Neurolinguistics**.
45. Camins, A. et al. (2022). Inferior fronto-occipital fascicle displacement in temporo-insular gliomas using diffusion tensor imaging. **Journal of Neuroimaging**.
46. Sala-Padro, J., et al. (2022). Verbal learning and longitudinal hippocampal network connectivity in temporal lobe epilepsy surgery. **Frontiers in Neurology**.
47. Olive, G., Slušná, D., Vaquero, Muchart-López, J., Rodríguez-Fornells, A., Hinzen, W. (2022). Structural connectivity in ventral language pathways characterizes nonverbal autism. **Brain Structure and Function**.
48. Ramos-Escobar, N., Mercier, M., Trébuchon-Fonséca, A., Rodríguez-Fornells, A., François, C., Schön, D. (2022). Hippocampal and auditory contributions to speech segmentation. **Cortex**.

2021

49. Sihvonen, Sammler, D., Ripolles, P., Leo, V., Soinila, S., Rodríguez-Fornells, A., Särkämö, T. (2021). Right ventral stream damage underlies both aprosodia and amusia. **European Journal of Neurology**.
50. Segura, E., Grau-Sánchez, J., Sánchez-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 chronic stroke: a Feasibility Study. **Brain Injury**, 35, 1585-1597.
51. Ramos-Escobar, N., Segura, E., Olivé, G., Rodríguez-Fornells, A., Clément François, C. (2021). Oscillatory activity and functional connectivity of concurrent word segmentation and meaning mapping in 9-year-old children. **Developmental Cognitive Neuroscience**, 51, 101010.
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Book chapters

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INVITED TALKS AND CONFERENCE ORGANIZATION

1. Guest researcher (one week). Max-Planck Institute of Cognitive Neuroscience. Leipzig (Germany, November 2002). Conference title: A neuroimage approach to word reading and language production in fluent bilinguals using ERPs and fMRI.

2. Guest researcher (SFB, Sonderforschungsbereich, one month). Dep. Neuropsychology, Otto-von-Guericke University. Magdeburg. Germany (November-December, 2002. Error correction vs. conscious error detection in the brain: neuroimaging evidences.

3. Invited conference: Lectura y producción de palabras en bilingües: un acercamiento desde la neuroimagen. Seminarios de Neurociencia Cognitiva, Departamento de Psicología. Universidad Illes Balears, 23 de Octubre del 2002.

4. Invited conference. Lectura y producción de palabras en bilingües: un acercamiento desde la neuroimagen. Seminarios de Neurolingüística, Dep. de Filología Catalana. Universidad Autónoma de Barcelona, 11 de Enero del 2002.

5. Invited course: Word reading and language production in fluent bilinguals using functional neuroimaging. Post-graduate program: "Multilingualism in the interplay between neuroscientific, psychological, linguistic, and language philosophical approaches". Interdisciplinary project held in the University of Basel (14-17 May 2003; coord(s): Prof. Franceschini Romanistisches Institut, Univ. Saarlandes; Prof. Nitsch, Neuroanatomie, Univ. Basel; Prof. Lüdi, Romanisches Seminar, Univ. Basel).

6. Chair of the session "Science of consciousness" at the 6th Conference of the Association for the Scientific Study of Consciousness. Speakers: BJ. Baars, S. Franklin, Antti Revonsuo, W. Seager. http://www.ub.es/grc_logos/assc6.

7. Chair of the session "New neuroimaging approaches to the study of language and brain", held at the 6 Congreso Nacional de Psicolingüística, Barcelona, 27 de Marzo del 2003. Speakers: Kai Alter (Max Plank Institut), Matti Laine (University of Turku), Arturo Hernandez (Univer. of Texas), T.F. Münte (Univ. Magdeburg).

8. Invited conference at the workshop in bilingualism: Cerebral processing of language and multiple languages". Conferences: "Role of Event-related potentials (ERP) in language studies" and "How the brain differentiates multiple languages". Basel, 4 of June, 2004. Trinational Eltem-Neurex Program in Neuroscience (www.neurex.org), Upper Rhine Valley (Basel) - Freiburg – Strasbourg.
9. Invited paper at the exploratory workshop funded by the European Science Foundation (ESF SCH) on 'Language Processing in First and Second Language Learners'. Essex 17-24 December 2004. Title: Neurophysiological evidences of language acquisition and word-learning.
10. Invited conference at the 2ª reunió de la XARXA DE GRAMÀTICA TEÒRICA, 26th of November 2004. "Potencials evocats cognitius (erps) aplicats a l'estudi del llenguatge i l'aprenentatge de segones llengües". Conference at <http://seneca.uab.es/filologiacatalana/investigacio/xarxes/RodriguezFornells.pdf>
11. Chair of the session "Psicofisiologia del Language", held at the IV Congreso Sociedad Española de Psicofisiología, Sevilla, 7-9 Octubre del 2004.
12. Organization committee of the I international workshop "Neuroscience of Cognitive Aging". October 13-15, 2004, Palma de Mallorca.
13. Invited conference at the Neurology Department. Hospital Clinic de Barcelona, 14th February, 2005. "Error detection processes in the brain".
14. Invited presentation at the Neurology Department INSERM U421 (Equip AVENIR) Hospital Henry Mondor, 24th February 2005. "Implications of basal ganglia in word learning".
15. Guest researcher (SFB, Sonderforschungsbereich, one month). Advance Center for Neuroimaging. University of Magdeburg. Germany (March, 2005). Error detection in the brain: neuroimaging evidences.
16. Invited conference in the III Jornades de Teoria i Psicologia. Experiència i consciència, Menorca, 9-11th of June, 2005. "Error monitoring and consciousness".
17. Invited conference at the Department of Economics, Universitat Pompeu Fabra, 9th May, 2005. "What can we learn about decision making and monitoring using errors? A neuroimaging approach".
18. Invited talk at the meeting: Imaging the mind. Tutorial course in Cognitive Neuroscience. 11-12 July, 2005. Palma de Mallorca. Title of the talk: "Neurophysiological evidences of word-learning".
19. Invited paper in the Roundtable Conference Series in Cognitive Neuroscience of Language Learning and Processing, entitled, The cognitive neuroscience of second language acquisition. Max Planck Institute for Psycholinguistics, Nijmegen (the Netherlands). September 20-21, 2005.
20. Invited conference in the Åbo Akademi University, Turku, Finland. 26th January, 2006. Title: Neurophysiological studies on language acquisition and word-learning.
21. Organization of the "Taller de técnicas de neuroimagen y su integración en la neurociencia cognitiva", with Anllo-Vento, L.. V Congreso Español de Psicofisiología. University of Granada, 28th of September, 2006.
22. Invited conference in the "Behavioral Economics in the light of Mathematics, Psychology, Cognition and Bio Informatics", November 9th and 10th, Aix en Provence. Title: How do we monitor and correct erroneous responses? Neurophysiological evidences.
23. Guest researcher. Max-Planck Institute for Human Cognitive and Brain Sciences. Leipzig (Germany, December 2006). Conference title: "Neurophysiological evidences of language acquisition and word-learning in adults".
24. Invited presentation at the International symposium on bilingualism 6. ISB6. Title: Syntactic interference in bilingual naming performance is modulated by language switching: An electrophysiological study Hamburg, May 30 - June 02. 2007.
25. Invited presentation at the ESCoP 2007, European Society of Cognitive Psychology XV. Meaning acquisition of concrete and abstract new-words: behavioral and neurophysiological evidences. Marseille, 30th August 2007.
26. Invited conference at the course "La persona y sus cerebros" ("Juliols de la Universitat de Barcelona"). Title: "El cerebro hablante". Barcelona, 10th July, 2007.
27. Invited conference at the 3rd Annual Rovereto Workshop on Bilingualism. Title: Initial steps of word recognition and meaning integration: a human simulation approach to language learning. Rovereto, Italy, 21th September, 2007.
28. Invited conference at the 2nd Workshop on 'Language Processing in First and Second Language Learners', MPI for Psycholinguistics in Nijmegen, November 23 - 24, 2007. Title: Initial steps of word recognition and meaning integration in language learning.
29. Invited conference at the 1st Workshop: New Directions in Word Learning, EPS (Experimental Psychology Society), York UK, 17-18th April, 2008.
30. Invited presentation at the 4th VolkswagenStiftung Status Conference: Dynamics & adaptivity of neural systems: integrate approaches to analyse cognitive functions, March 12th – 14th, Tübingen. Title: The impact of COMT and DRD4 genotypes on neurophysiological markers of performance monitoring.
31. Invited conference in the congress, "Cerebro, entendimiento y acción (XVII Jornadas de Filosofía)", Departamento de Filosofía, Universidad de Valladolid, Spain. 22-24 October 2008. Title: Neurociencia cognitiva de la detección consciente e inconsciente de errores y su corrección en humanos.
32. Plenary lecture. First workshop on neuroscientific and psycholinguistic models of bilingualism. March 24-25th, 2009, Bangor, UK. Title: "From bilingualism to language learning and brain plasticity".
33. Presentation at "Word learning" symposium, "Tagung experimentell arbeitender Psychologen" TeaP-2009, Jena, 29-03 – 01 -04, 2009. Title: "The neural basis of new-noun and new-verb learning".
34. Icrea Colloquium shared with Hector Geffner. Title: From Brain to Cognition. May 12th, 2009.
35. Presentation at the European Science Foundation Research conference: Gene Expression to Neurobiology and Behaviour: human brain development and developmental disorders, 20-25 September 2009, Sant Feliu de Guixols, Spain. Title: Individual differences in white-matter tracts are associated with true and false memory retrieval
36. Presentation at the International Symposium on Neurorehabilitation. From basics to future. Title: Music-supported Therapy induces Plasticity in the Sensorimotor Cortex in chronic Stroke Patients. Valencia, 15-19 Octubre, 2009.
37. Conference at the Sessions Interdisciplinars de Neurociències (IDIBELL – Hospital Universitari de Bellvitge – Faculta de Medicina). Title: Aportacions de la neurociencia cognitiva a l'estudi de l'aprenentatge i la plasticitat cerebral. 24th november 2009.

38. Conference at the Cortical Networks Lab, IDIBAPS. Title: Individual differences in white-matter pathways associated to reward processing. Barcelona, 22th January, 2010.
39. Conference at the SFB Kolloquium, Center for Behavioral Brain Sciences, University of Magdeburg. Title: Individual differences in white-matter pathways associated to reward processing. Magdeburg, Germany, 9th February 2010.
40. Conference at the Hospital del Mar, Servei de Psiquiatria. Title: Reward processing in humans. Barcelona, 25th February, 2010.
41. Conference at the Department of Psychology, Abo Akademi University. Title: Music-supported therapy induces plasticity in the sensorimotor cortex in chronic stroke patients. Turku, Finland, 6th September, 2010.
42. Co-organizer of the First Meeting on Neurosciences, IDIBELL. Presentation also of the talk: Functional-MRI connectivity applied to Presurgical Planning. Barcelona, 6th October 2010.
43. Presentation at the XI International Conference of SIBE, Musics and Knowledge in Transit. Title: Reorganization of the Sensorimotor System by Music-Supported Therapy, Lisbon, Portugal, 28th October de 2010.
44. Seminar at the University of Deusto, Experimental Psychology Laboratory. Title: "Error and Reward processing in humans". 29th November – 2 of December 2010.
45. Brain Awareness week conference: "Errors en el cervell". 16th March, 2011, Barcelona.
46. Symposium communication: Music-supported therapy induced plasticity in the sensorimotor cortex in chronic stroke patients, at the congress, The Neurosciences and Music IV, Learning and Memory. June 9-12, 2011. Edinburgh.
47. Invited conference at Centro Universitario de los Lagos de la Universidad de Guadalajara, "Temas de Actualización en Neurociencias", Titles: (i) ¿Cómo aprendemos los adultos una nueva lengua? Mecanismos Neurofisiológicos y cambios observados en el cerebro, (ii) Diferencias individuales y cambios plásticos observados en sustancia blanca cerebral y su relación con las funciones cognitivas. July, 11th – 15th, 2011, México.
48. Invited conference at the 6th Annual Eleanor M. Saffran Cognitive Neuroscience Conference, on "Cognitive and Neural Aspects of Learning in the Normal and Damaged Brain". Title: Neurophysiological mechanisms of language learning in adults. 23th September, 2011. Temple University, Philadelphia.
49. Invited conference at the University of Munster, Institut for Biomagnetism and Biosignalanalysis. Title: "Individual differences in white-matter pathways associated to learning and reward processing". 26th January 2012.
50. Invited conference at CaixaForum: "Retos y Alcances de la Neurociencia Cognitiva", Palma de Mallorca. Title: Music and Neuroscience. 7th March 2012.
51. Invited conference at the Department of English Studies (Applied Linguistics PhD program, Universitat de Barcelona). Title: Individual differences in language switching in bilinguals. 27th April, 2012, Barcelona, Spain.
52. Invited lecture at the summer school, Cognition & Consciousness (Retecog-net Summer school). Title: Unconscious control in the brain. 5-8th June 2012, Menorca, Spain.
53. Invited lecturer at the Summer School in Cognitive Neuroscience. (University of Helsinki). Title. Neurophysiological mechanisms of language learning in adults. 7-23th August 2012, Finland.
54. Invited conference at the University of Lubeck, Neurology department. Title: Music-supported therapy induces plasticity in the sensorimotor cortex in chronic stroke patients. 12th September 2012, Germany.
55. Conference at the BIOPOL (Institut d'Investigació Biomèdica de Bellvitge). Neurorehabilitació "de la recerca a la pràctica". 25th September, Barcelona, Spain.
56. Invited conference at the ICREA International Symposium on Biolinguistics. Title: Neurophysiological mechanisms involved in language learning in adults. October 1-3th, 2012. Barcelona, Spain.
57. Invited conference at University of Aix-en-Provence – Marseille (Neuroscience Institute Timone). Title: How do we learn new-words and their meaning? Neurophysiological evidences. 8th November, Marseille 2012, France.
58. Organizer of seven interdisciplinary lecture series about "Music and its impact on the body and mind" at the Science Museum of Barcelona (CosmoCaixa-IDIBELL). Barcelona, January-June, 2013.
59. Symposium communication invitation at the "11th International Conference of the Society of Neuroscientists of Africa –SONA-". Title: Neurophysiological mechanisms evidenced during language learning in adults. Symposium: Learning and brain plasticity. 14th of June, 2013, Rabat, Morocco.
60. Invited conference at the University Jaume I – Castelló (Facultat de Psicologia). Title: "Metacognitive processes and error monitoring in humans: neural evidences". 9th of December, 2013.
61. Invited talk at the 1st Congress on Music and Medicine, Institut Catala de Musicoterapia. Title: Canvis en el cortex sensorimotor en pacients crònics amb accident cerebrovascular induïts per aprenentatge musical. Cosmocaixa, 21th February 2014
62. Invited conference at the international Workshop organized by the Fundacion Fivan: Basic research and technological approaches in neurorehabilitation. Title: Implications of dorsal brain networks during language learning. Valencia, 26th June 2014.
63. Invited conference at the "64ena Reunió Científica de la Societat Catalana de Neuropsicologia". Title: Teràpia d'aprenentatge musical (MST-Music Supported Therapy) aplicada a la rehabilitació en stroke. Barcelona, 27th July 2014.
64. Invited conferences at the Workshop on "Language Learning, Music and the Brain" organized by the Unit for Language Learning and Teaching Research Department, University of Vienna. Title conferences: Brain anatomy related to language and music Learning" // "Specific musical Anhedonia – individual differences in musical versus monetary reward responsiveness". 1th of July 2014.
65. Invited conference at Hospital Clinic (IDIBAPS seminars). Title: Brain networks involved in language learning and its implication in aphasia rehabilitation. Barcelona, 18th February, 2015.
66. Invited talk at the Fundación Jiménez Díaz (XLVII, Lección conmemorativa Jiménez Díaz; Symposium "Mapeando el Cerebro Humano". Title: Redes neuronales y mapas cerebrales durante el aprendizaje del lenguaje y la música". Madrid, 19th of May, 2015.
67. Invited keynote talk at the "Concluding Conference NordForsk Infrastructure Network". Title. The intrinsic reward of Language Learning: neurophysiological evidences. Trondheim, 14-15 May 2015.

68. Invited talk at the Hospital Sant Joan de Deu (scientific seminar). Title: Language learning and brain reorganization in perinatal stroke: evidences using structural and functional MRI imaging. 2th of Juny, 2015.
69. Invited talk at "Jornada: Noves tecnologies en la rehabilitació dels pacients amb ictus" (Geralditat de Catalunya, Departament de Salut). Title: "Terapia amb suport musical". 3th of July, 2015, Barcelona.
70. Inaugural talk at the master "Transtorns Comunicació i Llenguatge", University Autònoma de Barcelona. "Neural correlates of language learning and its application in aphasia". Barcelona, 21th of September, 2015.
71. Invited talk at the conference "Jornada sobre la Evolución Humana", Fundación Valenciana de Estudios Avanzados. Title: "The role of reward in language learning". 25th of September, 2015.
72. Invited talk at the University of Zurich (Division Neuropsychology, Institute of Psychology). Title: "The intrinsic reward of Language Learning neurophysiological evidences." 2nd of December, 2015.
73. Invited talk at IDIBELL, Group Leader Seminars. Title: "From Music Neuroscience to Music-Rehab: an on-going translational research program". 3rd February, 2016.
74. Symposium organization at the conference X Congreso SEPNECA (Sociedad Española de Psicofisiología y Neurociencia Cognitiva y Afectiva). Symposium title: Music and Language. Participants: J. Marco-Pallarés, A. Tajadura-Jiménez, B. Kleber and A. Zamorano. Palma de Mallorca, 14-16 de julio de 2016.
75. Invited to the debate workshop organized at the Institute of Cognitive Neuroscience (UCL), with the title, "Let's be honest: Does neuroscience influence your current aphasia research practice and will it really change clinical practice?" London, 17th of August, 2016.
76. Organization of symposium focused on Innovative aspects in stroke rehabilitation (participants, R. Villa, R. Nowak, F. Miralles & A. Oliviero). Organized at the Expoictus (workshop centered on Technology applied to stroke rehabilitation). Celebrated in Barcelona, 20th October 2016.
77. Invited talk at the Seminarios de Neurociencia del curso 2016-17 (Master de Neurociencia que University Autònoma Madrid and Instituto Cajal del CSIC). Title of the talk "Procesos de recompensa intrínsecos asociados al aprendizaje del lenguaje". Madrid, 25th November, 2016.
78. Invited talk at the University of Lubeck, at the "Center of Brain, Behavior and Metabolism" (CBBM). Title: "The intrinsic reward of Language Learning". 29th of November 2016.
79. Invited talk at the Center for Music in the Brain, Aarhus University (Denmark). Title: "The intrinsic reward of Language and Music Learning". 21th of February 2017.
80. Selected symposium for the "The Neuroscience and Music VI" conference. Chairs: A. Rodríguez-Fornells and T. Särkämö. Title: Towards evidence-based practice of music interventions in stroke rehabilitation: feasibility, efficacy, and neural mechanisms. Boston, June 15th-18, 2017.
81. Invited conference at the Hierarchical Multisensory Integration: Theory and Experiments. Title: The intrinsic reward of language and music learning. Girona, Pals, June 18th-19, 2017.
82. Invited participation in Symposium Kongress der Deutschen Gesellschaft für Neurologie mit Fortbildungsakademie, Symposium title: "Mit Musik geht (fast) alles besser: Fortschritte der neurologischen Musiktherapie bei Schlaganfällen" (chair, E. Altenmüller). Talk Title: Brain Imaging in Neurologic Music Therapy. Leipzig, September 20th – 23, 2017.
83. Keynote speaker at The Fourth St. Petersburg Winter Workshop on Experimental Studies of Speech and Language (Night Whites 2018). Title of the talk: The intrinsic reward of Language Learning. St. Petersburg State University, Russia, February 26th – 27, 2018.
84. Invited presentation at the 12 Simposio Da Fundação BIAL, "Behind and Beyond the Brain". Title of the presentation: "Induced brain plasticity after perinatal stroke: Structural and functional connectivity". Porto, April 4th-7, 2018. Portugal.
85. Plenary speaker at the meeting "EEG measures of Error Processing", Leuven, Belgium (Organized by KU Leuven). Title: Understanding Performance Monitoring. Leuven, May 22th - 23, 2018.
86. Keynote speaker at the "1st Institut Ramon Llull Workshop on Bilingualism" (organized by Georgetown University - Smithsonian programmed 2018 activities). Title of the talk: The intrinsic reward of Language Learning. Washington, November 2th, 2018.
87. Invited conference at the international meeting: "Curiosity: Emerging sciences and educational innovations". Title of the talk: The intrinsic reward of learning a new language. Co-organized by INRIA(France) and the Department of Bioengineering and the School of Social Policy and Practice (University of Pennsylvania). To be held, Philadelphia, December 7th – 8, 2018.
88. Guest talk at the Zuckerman Mind Brain Institute, Neuroscience Department, Columbia University. The role of Intrinsic reward and Metacognition on Language Learning. New York, 22th January 2019.
89. Invited seminar at the New York State Psychiatric Institute & Department of Psychiatry, research group Horga Lab, Columbia University. Title of the talk: Understanding performance monitoring using Error-related brain potential measures. New York, 24th January 2019.
90. Invited talk at University of Maryland, Second Language Acquisition Group (SLA), School of Languages, Literatures, and Cultures. Title. The role of Intrinsic reward and Metacognition on Language Learning. February 21th, 2019.
91. Invited talk at the Department of Latin American and Iberian Cultures (LAIC), Columbia University: Applied Pedagogy Workshops. Title of the talk: Motivación intrínseca y procesos de recompensa cuando se aprenden nuevas palabras. New York, May 3rd. 2019.
92. Invited conference at ITMAT 14th Annual International Symposium: Translational Targets and Precision Medicine: Taming Inflammation and Improving Resilience as We Age. Title of the talk: The Role of Dopamine in Modulating Music Reward Brain Responses and Its Potential Role in Neurorehabilitation. Organized by Perelman School of Medicine, University of Pennsylvania, Philadelphia, October 15-16th, 2019.
93. Invited presentation at the SEN LXXI (Sociedad Española de Neurología). Symposium: Neurología de la conducta y demencias. Update Neuropsychology. Title of the presentation: De los test clásicos de memoria episódica al "accelerated long-term forgetting". Sevilla, November 19-23th, 2019.
94. Invited talk at the SONAR+D CCCB 2020. Title of the talk: What does music mean to our brain? Barcelona, 19th September, 2020.
95. Organization of Workshop at "The Neurosciences and Music – VII conference: Connecting with music across the lifespan. Title of the workshop: Putting music to trial: design and progress of ongoing clinical trials on music-based interventions in neurological rehabilitation. Organizers: T. Särkämö, J. Grau-Sanchez & A. Rodríguez-Fornells. Aarhus, Denmark (18th-21th of June, 2021) (hybrid format).

96. Invited presentation at the CNP 2021 (Congreso Nacional de Psicología). Symposium: El efecto de la intervención psicológica en las redes anatómo-funcionales del cerebro. Title of the presentation: Music-supported Therapy in the rehabilitation of motor deficits after stroke. 9th-11th July 2021 (online).
97. Keynote lecture at the Neurobiology of Speech and Language (5th International Conference). Title: Motivated language learning: The role of intrinsic reward and information sampling. Saint Petersburg. Russia. October 8 – 9th, 2021 (online).
98. Invited presentation at the SAN2021 (Sociedad Argentina de Investigación en Neurociencias). Symposium: Neurocognitive perspectives on language research. Title of the presentation: The role of intrinsic reward on language learning. 21th October 2021 (online).
99. Organization of the scientific event “Being a Curious Music-Mind” at the Sonar+D (CCCB y la Sala Salamandra, 29th/30th October 2021), comprising a field experiment in a natural setting (DJ concert from Alicia Carrera). In collaboration with the IDIBELL, L’Hospitalet de Llobregat City Council, SOKOtech i Festival Sónar+D.
100. Invited presentation at the University of Lund, Centre for Languages and Literature. Workshop on Neurolinguistics in Sweden (NLS): Prediction in Brain Potentials. Title of the talk: Information sampling during self-regulated language learning: Evidence using slow event-related brain components (ERPs). Lund, 29th April 2022.
101. Invited talk at the I Jornada: El papel de la Música en la Neuro-rehabilitación. Titulo: Aplicación de la terapia basada en el aprendizaje musical en la rehabilitación motora del daño cerebral adquirido. 10 de Junio 2022. CEADAC. Madrid.
102. Invited talk at the cross-institute colloquium at the Faculty of Psychology at the University of Vienna. Title: The role of dopamine and opioid regulation in music reward brain responses and its potential role in neurorehabilitation. Viena, 30th June, 2022.
103. Invited talk at the Centre de Lingüística Teòrica. University Autonomous Barcelona. Title of the talk: Motivated-language learning: the role of intrinsic reward and information sampling. 8th July 2022.
104. Invited conference at the Università della Svizzera italiana / IBSA Foundation per la ricerca scientifica. Series talk on the Healing through Music course. Title of the talk: Modulating Music Reward and Curiosity and its Potential Role in Rehabilitation. 14th November, 2022.
105. Invited conference at MNAC (Museu Nacional d’Art de Catalunya). Curiosity Atelier (organized by A. Cornella). Title: ¿Qué sabemos hoy sobre la curiosidad humana? Barcelona, 23 de Enero, 2023.
106. Symposium participation at the ESCAN, “Opioidergic and dopaminergic modulation of reward processing and decision making” (organized by C. Massaccesi & G. Silani). Title of the presentation: Dopamine and opioid modulation of music-elicited reward and motivation. Ghent, 22-25th May, 2024
107. Guest speaker at the ABC workshop 2024 “Education towards Rationality”. Curiosity and intrinsic reward during self-regulated learning: a neuroscientific perspective. Barcelona, 5-7th June, 2024
108. Keynote talk at the ILCB summer school, Language Communication and the Brain (Université d’Aix-Marseille). Title of the talk: Intrinsic reward mechanisms in language learning. Marseille, 26 - 30th, August, 2024.
109. Invited talk at the Institut Convergences Language Communication Brain (ILCB) / Laboratoire Parole et Langage (LPL) (Université d’Aix-Marseille). Title: Language information-seeking in infants. Aix-en-Provence, 27th September, 2024.
110. Invited talk at the IMERA (Institute for Advanced Study). Community Building Seminar (CBS) for resident fellows. Title: Language information-seeking in infants: behavioral and neural evidence. Marseille, 10th October, 2024.
111. Invited conference at “Arte e saúde. A música”. Titulo: Música e cerebro: bases cerebrais do procesamento musical. O potencialda música na neurorehabilitación. Pazo de Mariñán - A Coruña (Galicia). 22th November, 2024, Pazo de Mariñán, Bergondo, A Coruña.
112. Conference at the Laboratoire Parole et Langage (LPL, Aix-Marseille University) in the LSD-Dynamique du Langage et de la Parole-internal seminars on Prediction and Learning. Title: Electrophysiological evidence for the role of prediction during novel word learning. Aix-en-Provence, 12th May 2025.
113. Invited seminar at the IMERA (Institute for Advanced Study) on the interdisciplinary Workshop of Mental Health (directed by. Gabriella Crocco). Title: Curiosity and cognitive exploration as important factors in mental health. Marseille, 15th May 2025. [Workshop on Mental Health - Imera](#)
114. Participation (oral presentation) in the “Interdisciplinary exploration of dreams and the brain” doctoral training session in the Inter-disciplines seminar at IMERA (organized by Peter Simor and Gabriella Crocco). Title: What happens in our brains when we sleep? Marseille, 21th May 2025. [Interdisciplinary exploration of dreams and the brain - Iméra](#)
115. Invited presentation in the ABC-Space workshop [Swiss National Science foundation framework]: Attention Behavior and Curiosity in Space, organized by Fondation Artanim (organized by Joan Llobera). Title: Curiosity for language learning and music. Geneve, 10 de June, 2025.
116. Invited online talk at the seminar from the DFG-project “MeMoSLAP”, Universitätsmedizin Greifswald (Organized Marcus Meinzer). Title: “Intrinsic reward mechanisms in language learning: implications for stroke rehabilitation”. 14th October 2025.
117. Invited talk at the SeRIAL UB Linguistic group (organized by Dan Dediu). Title: Intrinsic motivation in Language Learning. Barcelona, 11 de December 2005

SUPERVISED DOCTORAL DISSERTATIONS:

1. Anna Mestres-Missé. Anna Mestres Misse. 2007. Neural correlates of word learning and meaning acquisition.
2. Estela Camara Mancha. 13th November, 2008. Tracing functional brain architecture: a combined fMRI-DTI approach.
3. Toni Cunillera Llorente. 4th December, 2009. Functional Neuroanatomy of Speech Segmentation in Adults. Awarded: *Premis del Consell Social de la UB (Jose Manuel Blecua)*
4. Nuria Rojo Fite. 19th December 2013. Music-supported therapy induced plasticity in the sensorimotor cortex after stroke. University of Barcelona.
5. Julia Amengual. 20th December 2013. Short- and long- term plasticity effects on cortico-spinal tract: A TMS-EEG approach in healthy subjects and stroke patients. University of Barcelona. Co-directed with C. Grau. Awarded: *Premis Extraordinaris de Doctorat UB 2013-2014*

6. Daniel Vega. 9th October 2014. Neurophysiological correlates of reward processing and cognitive control in borderline personality disorder patients with and without self-harm history. University Autònoma de Barcelona (UAB). Co-directed with Rafael Torrubia.
7. Gonçalo Padrao. 24th October 2014. Towards an ecological approach to understanding the neurophysiological bases of human error-monitoring. University of Barcelona.
8. Viktoria Havas. 21th November 2014. Neural signatures of word learning in the adulthood. University of Barcelona.
9. Mar Gonzalez Franco. 17th December 2014. Neurophysiological signatures of the body representation in the brain using Immersive Virtual Reality. Co-directed with Mel Slater.
10. Marta Simó Parra. 30th April 2015. Effects of chemotherapy and cranial radiation in brain structures and cognitive functions of lung cancer patients. Co-directed with Jordi Bruna.
11. Julia Miro. 22th June 2015. Functional and structural magnetic resonance imaging connectivity associated to autobiographic memory in temporal lobe epilepsy with uni- and bilateral hippocampal sclerosis.
12. Pablo Ripolles. 22th July 2016. The role of reward in word learning and its implications for second language acquisition. Co-directed with J. Marco-Pallares.
13. Claudia Peñalzo. 27th October 2016. Speech segmentation and new word learning in aphasia. Co-directed with Matti Laine.
14. Lucia Vaquero. 2th of December 2016. Brain structural predispositions for music and language processing. Awarded: *XXII Premios extraordinarios de doctorado Claustro de Doctores UB (accesit)*.
15. Adria Vila Ballo. 3rd of February 2017. When cognitive control breaks down: neurophysiological evidence from pathological and healthy individuals. Awarded: *Premis Extraordinaris de Doctorat UB 2016-2017*
16. Ane Gurtubay. 13th of July 2017. Neural mechanisms of haptic monitoring.
17. Joanna Sierpowska. 22th of September 2017. Functional mapping of language pathways in the brain: a combined intraoperative electrical stimulation and neuroimaging approach. Co-directed with Andreu Gabarros Canals.
18. Alejandro Fernández Coello. 21th December, 2018. El cerebro multilingüe: estudio del lenguaje en pacientes políglotas en base al mapeo cerebral intraoperatorio. Co-directed with Andreu Gabarros Canals.
19. Jennifer Grau-Sanchez. 11th January 2019. Music-supported Therapy in the rehabilitation of motor deficits after stroke. Co-directed with Esther Duarte.
20. Adria Tort. 17th February 2021. Detección precoz de cambios cognitivos sutiles en el envejecimiento y en la fase preclínica del continuo Alzheimer. Co-directed with Lorena Rami.
21. Neus Ramos Campos. 16th March 2021. Neural signatures of word learning in adults and children: a multi-methodological approach. Co-directed with Clement François.
22. Patricia Leon-Cabrera. 7th May 2021. Neural signatures of semantic anticipation in sentence comprehension. Co-directed with Joaquin Moris.
23. Alba Gomez Andres. 15th December 2022. The self in the face of error. Neural signatures of agency attribution. Co-directed with Toni Cunillera.
24. Myriam de la Cruz-Puebla. 17th September 2024. Multimodal approach of reward processing vulnerabilities in mesial Temporal Lobe Epilepsy Surgery. Co-directed Estela Camara.
25. Gemma Cardona. 18th December 2024. The role of curiosity and absorption in regulating music reward: evidence from laboratory and natural settings. Co-directed with Laura Ferreri.
26. Emma Segura. 18th December 2024. Enriched Music-supported Therapy and motivational factors in chronic stroke rehabilitation. Co-directed with Jennifer Grau-Sanchez.
27. Guillem Olive. 24th January 2025. White matter brain connectivity associated with language acquisition: insights from patient studies. Co-directed with Lucia Vaquero.
28. Marc Ballesteros Arnau. 2026. Food-Cue Processing in Normal-weight and Obese Individuals. Co-directed with Toni Cunillera

SUPERVISION AT THE POST-DOCTORAL LEVEL:

1. Joaquin Moris (2013-2014; J. de la Cierva grant; actual position: Professor Univ. of Granada).
2. Clement François (2014- 2018 Fyssen grant; actual position: CNRS researcher at the Aix Marseille University).
3. Laura Ferreri (2016-2018; actual position: Professor at the University of Lyon/Prof. Univ. Pavia).
4. Jennifer Grau-Sanchez (2019-2021; actual position Professor at the EUIT-UAB).
5. Stefan Elmer (2017-2018; actual position, Researcher at the Univ. Zürich).
6. Claudia Peñalzo (2020-2023; actual position, Ramon y Cajal researcher at the University of Barcelona, 2021-2023).
7. Marta Matamala (2022-2024; Juan de la Cierva postdoctoral position / actual Marie Curie Fellowship).
8. Patricia Leon-Cabrera (2022-2024; Margarita Salas postdoctoral position, in collaboration with Univ. Magdeburg – T. Noesselt).
9. Xim Cerda (2022-2024; Margarita Salas postdoctoral position / actual Lecturer AI, UAB).
10. Ana Zappa (2022-2025; Marie Curie Fellowship).
11. Adria Vila-Batllo (2022 – 2025; Juan de la Cierva position / actual Lecturer Univ. Girona)
12. Emma Segura (2025 – 2027). Postdoctoral contract associated to FALCO Project (HORIZON-HLTH-2024)
13. Marc Ballesteros (2026-2027). Postdoctoral contract associated to FALCO project (HORIZON-HLTH-2024)

THESIS COMMITTEE EVALUATION:

1. Eva Moreno Montes. UAM. Madrid, 2004.
2. Alicia Peñalba, Univ. de Valladolid Music, 2008.
3. Margaret Guillon, Univ. La Laguna, La Laguna, 2011
4. Jose Carlos Bouso, UAB Sant Pau, Barcelona, 2012
5. Clement François, Aix-Marseille Université, Marseille, 2013
6. David Torrents-Rodas, Univ. Autònoma de Barcelona, 2013
7. Julia Christensen, University Illes Balears, Mallorca, 2014
8. Julia Morales, Univ. Granada, 2014.
9. Francesca Martina Branzi, Univ. Pompeu Fabra, Barcelona, 2014
10. Laura Ferreri, Univ. Dijon, France, 2015
11. Irene Alonso, Univ. Lille, France, 2015
12. Albert Flexas, University Illes Balears, Mallorca, 2015
13. Andreu Gabarros, Univ. Barcelona, 2016.
14. Adria Rofes, Univ. Trento, Italy, 2015
15. Vania Aguilar, Univ. Trento, Italy, 2015
16. Anna Zamorano, University Illes Balears, Mallorca, 2016
17. Marian Palomar, Castello, 2017

18. Matthias Liebrand, Univ. Lubeck, Germany, 2018
19. Mylene Barbaroux, Aix-Marseille Université, Marseille, 2019
20. Victor Alejandro Sánchez Azanza, University Illes Balears, Mallorca, 2020
21. Sabine Gosselke Berthelsen, Univ. Lund, Sweden, 2021
22. Esteban Villar Rodríguez, Univ. Jaume I, Castello, 2023

AD-HOC REVIEWER AND EDITORIAL ACTIVITIES:

Journals:

Acta Psychologica, American Journal of Physical Medicine & Rehabilitation, Anatomical Record, Annals of the New York Academy of Sciences, Applied Psycholinguistics, Archives of Disease in Childhood, Behavior Research Methods, Bilingualism: Language and Cognition, Biological Psychology, Biological Psychiatry, BMC Neuroscience, Brain Research, Brain and Cognition, Brain and Language, Brain Structure Function, Canadian Journal of Experimental Psychology, Cerebral Cortex, Clinical Neurophysiology, Cognition, Cognitiva, Cognitive, Affective, & Behavioral Neuroscience, Cortex, Experimental Brain Research, Frontiers in Neuroscience, Hearing Research, Human Brain Mapping, International Journal of Bilingualism, J. Affective Disorders, J. of Cognitive Psychology, J. of Cognitive Neuroscience, J. of Memory and Language, J. of Neurolinguistics, J. of Neuroscience, J. of Neurophysiology, J. of Psychophysiology, Lancet Neurology, Language and Cognitive Processes, Language and Speech, Linguistic Compass, Nature Communications, Neurobiology of Aging, Neurobiology of Language, Neurobiology of Learning and Memory, Neural Plasticity, Neuroimage, Neuroimage Clinical, Neuropsychologia, Neuropsychology, New ideas in Psychology, Neuroscience, Neuroscience & Biobehavioral Reviews, Neuroscience Letters, Perceptual and Motor Skills, Personality and Individual Differences, Psychophysiology, Psychometrika, PLOS One, Plos Biology, Quarterly Journal of Experimental Psychology, Restorative Neurology and Neuroscience, Scandinavian Journal of Psychology, Scientific Reports, Speech and Language, Trends in Cognitive Sciences, iScience, Scandinavian Journal of Psychology, Plos Computational Biology

Research organizations:

European Science Foundation (ESF; 2023, 2025, ERC starting grant SH4 "*Human Mind and its complexity*" Panel member)

Canada Research Chairs (Government of Canada), NSF National Science Foundation (USA), Swiss National Science Foundation (SNSF), BSF (United States - Israel Binational Science Foundation), Israel Science Foundation (ISF), Graduate Women in Science (GWIS), Agaur, ANEP, Ministerio de Ciencia e Innovación (MICIN), Hospital de la Santa Creu i San Pau, The Leverhulme Trust, Fundación Carolina, European Research Council (ERC), Academia Sinica Taiwan, Research Foundation Flanders – FWO, The Dunhill Medical Trust (UK), IDIBAPS, Ikerbasque, MRC Medical Research Council (UK), Deutsche Forschungsgemeinschaft (DFG), German Academic Exchange Service (DAAD), Stroke Association (UK), The Brain Tumour Charity (UK), Netherlands Organisation for Scientific Research (NWO), Goldsmiths, University of London, Poland - National Science Centre (NCN),

Associate Editor:

Brain and Language (from 2023); Brain Sciences (current, 2020; Neurolinguistics Section), BMC Neuroscience (2009-2018), Plos One (2007-2021), Frontiers in Human Neuroscience (2010-2017). Co-editor of the special issue Music, Brain, and Rehabilitation: Emerging Therapeutic Applications and Potential Neural Mechanisms, editors: T. Särkämö, E. Altenmüller, A. Rodríguez-Fornells & I. Peretz.

Memberships:

American Psychological Society (APS), Society for Psychophysiological Research (SPR), New York Academy of Sciences (NYAS), European Dana Alliance for the Brain (EDAB), ACAI-TLP (Associació Catalana d'Ajuda i Investigació del Trastorn Límit de la Personalitat).

OTHER ACADEMIC AND RESEARCH MANAGEMENT ACTIVITIES

Coordinator of the Doctoral Program "**Brain, Cognition and Behavior**". University of Barcelona (from Sept. 2015 / July 2018).

Member of the Academic Commission of the Master in **Behavior and Cognition**. University of Barcelona.

Member of the **Internal Scientific Committee**, IDIBELL (2012-2016).

Member of the **Internal commission of the Faculty of Psychology** for the reunification of departments (2016).

Member **Claustre Doctors Universitat de Barcelona**