

CURRICULUM VITAE

Laura Ferreri · PhD

- **Date and place of birth:** 25/11/1987, Trescore B. - Bergamo, Italy
- **Address :** Dipartimento di Scienze del Sistema Nervoso e del Comportamento, Piazza Botta, 27100 Pavia, Italia
- **E-mail:** laura.ferreri@unipv.it
- **Languages:** Italian (mother tongue) · French (full professional proficiency) · English (full professional proficiency) · Spanish (full professional proficiency) · Catalan (elementary proficiency)



Diplomas and University degrees

2014	PhD in Cognitive Psychology LEAD CNRS, Université de Bourgogne, Dijon, France.	<i>Supervisor:</i> Pr. Emmanuel Bigand <i>Co-supervisor:</i> Pr. Aurélia Bugaiska <i>Final note:</i> très honorable <i>Grant :</i> EBRAMUS, Marie Curie FP7 ITN MC FP7, GA 238157
2011	M. Sc. in Cognitive Neuroscience Università San Raffaele, Milan, Italy.	<i>Supervisor:</i> Pr. Daniela Perani <i>Co-supervisor:</i> Dr. Danilo Spada <i>Final note:</i> 110/110 cum laude and honors
2009	Bachelor's Degree in Psychological Sciences Università San Raffaele, Milan, Italy.	<i>Supervisor:</i> Pr. Daniela Perani <i>Co-supervisor:</i> Dr. Danilo Spada <i>Final note:</i> 110/110.
2006	Classical Liceum Diploma Treviglio (BG), Italy.	<i>Final note:</i> 100/100

Current and previous positions

From 1 May 2022	Researcher (rtdB) , Department of Brain and Behavioral Sciences, Università di Pavia
2018 – present	Associate Professor (Maître de Conférences) , Faculty of Psychology, Laboratoire EMC, Université Lumière Lyon 2, Lyon, France.
2017 – 2018	Associate Professor (Profesor Asociado) , Faculty of Psychology, Universitat de Barcelona, Barcelona, Spain.
2015 – 2017	Post-Doc Researcher , Brain Cognition & Plasticity Unit, Universitat de Barcelona, Barcelona, Spain.
2014 – 2015	Post-Doc Assisant Professor in Cognitive Psychology (ATER) , Université de Bourgogne, Dijon, France.
2011 – 2014	PhD student - Early Stage Researcher (ESR) European Brain and Music (EBRAMUS) consortium, Marie Curie FP7 Initial Training Network (ITN MC FP7, GA 238157), LEAD CNRS UMR 5022 - Dijon, France.
2010 – 2011	Research Internship , Cognitive Neuroscience Centre, Università San Raffaele, Milan, Italy.

Scientific publications

Published / In Press (for shared first authorship)*

22. Cardona, G., **Ferreri, L.**, Lorenzo-Seva, U., Russo, F., Rodriguez-Fornells, A., (2022). The forgotten role of absorption in music reward. *Annals of the New York Academy of Science*
21. **Ferreri, L.**, Versace, R., Victor, C., Plancher, G. (2022). Temporal predictions in space: isochronous rhythms promote forward projections of the body. *Frontiers in Psychology*, 1657.
20. Carraturo G., **Ferreri, L.**, Vuust, P., Matera, F., Brattico, E. (2022). Empathy but not musicality is at the root of musical reward: A behavioral study with adults and children. *Psychology of Music*, 03057356221081168.
19. **Ferreri, L.**, Brelief, M., Brunet, O., & Michael, G. A. (2021). Relaxing music and the self: Insights from the perception of spontaneous sensations. *Psychology of Music*, 03057356211055219. <https://doi.org/10.1177/03057356211055219>
18. Gatti, D., Rinaldi, L., **Ferreri, L.**, Vecchi, T. (2021). The human cerebellum as a hub of the predictive brain. *Brain Sciences*, 11(11), 1492. <https://doi.org/10.3390/brainsci11111492>
17. **Ferreri, L.**, Riba, J., Zatorre, R.J., Rodriguez-Fornells, A. (2021). Chills, bets, and dopamine: a journey into music reward. *Neuroaesthetic In Focus.*, E. Cardillo & A. Eds. [Book Chapter]
16. **Ferreri, L.**, Mas-Herrero ,E. , Cardona, G., Zatorre, R. J., Riba, J., Valle, M. Ripollés, P., & Rodriguez-Fornells, A. (2021). Dopamine modulations of reward-driven music memory consolidation. *Annals of the New York Academy of Science*. doi: 10.1111/nyas.14656
15. **Ferreri, L.**, Singer, N., Mcphee, M., Ripollés, P., Zatorre, R. J., & Mas-Herrero, E. (2021). Engagement in music-related activities during the COVID-19 pandemic as a mirror of individual differences in musical reward and coping strategies. *Frontiers in Psychology*, 12, 2504. doi: 10.3389/fpsyg.2021.673772
14. Cardona, G., Rodriguez-Fornells, A., Nye, H. Rifá-Ros, X., **Ferreri, L.** (2020). The impact of musical pleasure and musical hedonia on verbal episodic memory. *Scientific Reports*, 10, 16113. <https://doi.org/10.1038/s41598-020-72772-3>
13. **Ferreri, L.**, Mas-Herrero, E., Zatorre, R. J., Ripollés, P., Gomez-Andres, A., Alicart, H., et al. (2019). Dopamine modulates the reward experiences elicited by music. *Proceedings of the National Academy of Sciences*, 116(9), 3793-3798. <https://doi.org/10.1073/pnas.1811878116>
12. François, C., Ripollés, P., **Ferreri, L.**, Muchart, J., Sierpowska, J., Fons, C., et al. (2019). Right structural and functional reorganization in 4-year-old children with perinatal arterial ischemic stroke predict language production. *eNeuro*, 10:1523. doi: 10.1523/ENEURO.0447-18.2019
11. **Ferreri, L.**, Moussard, A., Bigand, E., Tillmann, B. (2018). Music & the aging brain. *The Oxford Handbook of Music and the Brain*. M. Thaut & D. Hodges Eds., Oxford University Press. [Book Chapter] DOI: 10.1093/oxfordhb/9780198804123.013.25
10. Ripollés, P.*, **Ferreri, L.***, Mas-Herrero, E., Alicart, H., Gómez-Andrés, A., Marco-Pallares, J., et al. (2018). Intrinsically regulated learning is modulated by synaptic dopamine signaling. *eLife*, 7, e38113. DOI: 10.7554/eLife.38113
9. **Ferreri, L.**, & Rodriguez-Fornells, A. (2017). Music-related reward responses predict episodic memory performance. *Experimental Brain Research*, 1-11. <https://doi.org/10.1525/mp.2016.34.2.167>

8. Ferreri, L., & Verga, L. (2016). Music benefits on verbal learning and memory: When and how does it work? *Music Perception*, 34(2), 167-182. <https://doi.org/10.1525/mp.2016.34.2.167>
7. Bonin, P., Ferreri, L., Gelin, M., Fitamen, C., Bard, P., Bugaiska, A. (2016). Spotlight on the survival processing advantage: An fNIRS Study on Adaptive Memory. *Spatial, Long-and Short-Term memory: Functions, Differences and Effects of Injury*, Nova Science Publishers. [Book Chapter] hal-02181890
6. Ferreri, L., Bigand, E., & Bugaiska, A. (2015). The positive effect of music on source memory. *Musicae Scientiae*, 19(4), 402-411. <https://doi.org/10.1177/1029864915604684>
5. Ferreri, L., Bigand, E., Bard, P., & Bugaiska, A. (2015). The influence of music on prefrontal cortex during episodic encoding and retrieval of verbal information: a multichannel fNIRS study. *Behavioural Neurology*, 501, 70762. <https://doi.org/10.1155/2015/707625>
4. Bugaiska, A., Ferreri, L., Bouquet, C., Tapia, G., Kalenzaga, S. & Clarys, D., (2015). Self as a moderator of age-related deficit on recollection. *Année Psychologique / Topics in Cognitive Psychology*, 115, 77-88. DOI 10.4074/S0003503314000013
3. Ferreri, L., Bigand, E., Perrey, S., Muthalib, M., Bard, P. & Bugaiska, A., (2014). Less effort, better results: how does music act on prefrontal cortex in older adults during verbal memory encoding? An fNIRS study. *Frontiers in Human Neuroscience*, 8:301. <https://doi.org/10.3389/fnhum.2014.00301>
2. Ferreri, L., Bigand, E., Perrey, S. & Bugaiska, A. (2014). The promise of Near-Infrared Spectroscopy (NIRS) for psychological research: a brief review. *Année Psychologique / Topics in Cognitive Psychology*, 114(3), 537-569. DOI 10.4074/S0003503314003054
1. Ferreri, L., Aucouturier, J.J., Muthalib, M., Bigand, E. & Bugaiska, A., (2013). Music improves verbal memory encoding while decreasing prefrontal cortex activity: an fNIRS study. *Frontiers in Human Neuroscience*, 7:779. <https://doi.org/10.3389/fnhum.2013.00779>

Scientific communications

Posters

14. Cardona, G., Ferreri, L., Lorenzo-Seva, U., Russo, F.A., Rodríguez-Fornells, A. (2021). The forgotten role of transcendence in music reward. *The Neuroscience and Music VII Conference, Aarhus, Denmark (hybrid format)*, 18-21 June 2021
13. Curzel, F., Trân, E., Osiurak, F., Ferreri, L. (2021). Boosting reward and pro-social behaviours through shared music listening. *The Neuroscience and Music VII Conference, Aarhus, Denmark (hybrid format)*, 18-21 June 2021
12. Carraturo, G., Ferreri, L., Vuust, P., Matera, F., Brattico, E. (2021). Empathy but not Musicality is at the Root of Musical Reward: A Behavioral Study with Adults and Children. *The Neuroscience and Music VII Conference, Aarhus, Denmark (hybrid format)*, 18-21 June 2021
11. Curzel, F., Ripollés, P., Ferreri, L. (2021). Better when shared: listening to music with others increases the musical pleasure. Society for Affective Science. *Society Affective Science Conference, online*, 13-16 April 2021

10. Mas-Herrero, E., **Ferreri, L.**, Cardona, G., Zatorre, R., Pla, F., Riba, J., Valle, M., Rodriguez-Fornells, A. (2021). The role of opioid transmission in music-induced pleasure. *The Neuroscience and Music VII Conference, Aarhus, Denmark (hybrid format)*, 18-21 June 2021
9. Lalande, P. Curzel, F. **Ferreri, L.** (2020) The implication of prefrontal cortex in musical pleasure : an fNIRS preliminary study. *Brain, Cognition, Emotion, and Music (BCEM) Conference*. Online, May 2020
8. Cardona, G., Rodriguez-Fornells, A., Nye, H., Rifà-Ros, X., **Ferreri, L.** (2020). The impact of music-related reward responses on verbal episodic memory'. *Brain, Cognition, Emotion, and Music (BCEM) Conference*. Online, May 2020
7. Cardona, G., Rodriguez-Fornells, A., Rifà-Ros, X., **Ferreri, L.** (2019) Music-related reward responses and verbal episodic memory'. *LABEX CORTEX conference "The dynamic and flexible nature of memories"*, Lyon (France), June 2019.
6. **Ferreri, L.**, Mas-Herrero, E., Zatorre, Marco-Pallares, J., Gomez-Andrés, A., Alicart, H, Olivé, G., Valle, M., Antonijoan, R., Riba, J., Rodriguez-Fornells, A. (2017). Music-related reward responses modulate episodic memory formation via the hippocampus-dependent dopaminergic circuit. *Neuroscience and Music VI*, Boston (USA), 15-18 June 2017.
5. **Ferreri, L.**, Morís-Fernandez, J., Cucurrell, D., Rodriguez-Fornells, A. (2016). From beats to music: neural entrainment in theta band. *Organization for Human Brain Mapping (OHBM) Annual Meeting*, Geneva, 26-30 June 2016.
4. Beffara, B., Bret, A., **Ferreri, L.**, Bard, P., Vermeulen, N., Bugajska, A., & Mermillod, M. (2016). Healthy adults with lowest levels of cooperation are more cooperative after heart rate variability biofeedback. *Annual Conference of the Society for Affective Science*, Chicago (USA), March 2016.
3. **Ferreri, L.**, Bigand, E., Bugajska, A. (2014) Music, memory and prefrontal cortex: a multi-channels fNIRS study on encoding and retrieval of verbal material. *The Neuroscience & Music - V*, Dijon, France, 29 May -1 June 2014.
2. **Ferreri, L.**, Bigand, E., Perrey, S., Muthalib, M., Bugajska, A. (2014). Music enhances memory performances in young and older adults by modulating prefrontal cortex activity: an fNIRS study. *9th FENS (Federation of European Neuroscience Societies) Forum*, Milan, Italy, 5-9 July 2014.
1. **Ferreri, L.**, Aucouturier, JJ., Bigand, E., Bugajska, A. (2012). Monitoring the DLPFC during the encoding of verbal material with or without a musical context: a Near InfraRed Study. *Deuxième Journées Perception Sonore (JPS)*, Marseille, France, 11-12 December 2012.

Invited Talks · Seminars · Workshops · Symposiums

- 24 **Ferreri, L.** (2022) Musical pleasure: neurobiological bases and cognitive implications (2022). *Invited talk, Institut Jean-Nicod*, Paris, 21 March 2022.
23. Plancher, G., Tillmann, B., **Ferreri, L.** (2021). Boosting memory with temporal regularities. *Talk given by G. Plancher at Psychonomic Society (62nd annual meeting)*, Online, 4-7 November 2021.
22. **Ferreri, L.** (2021) Engagement in music-related activities during the COVID-19 pandemic as a mirror of individual differences in musical abilities and coping strategies. *Symposium at ICMP-ESCOM 2021*, Online, 28-31 July 2021.

21. Ferreri, L. (2021) "Musical pleasure as a tool to improve memory and affection". *The Neuroscience and Music VII Conference, Aarhus, Denmark, Online, 18-21 June 2021.*
20. Ferreri, L. (2021) "La musique: un moyen pour la stimulation cognitive et la remédiation". *Invited talk at Colloque Handiversité 2021, Paris Saclay, Online, 15 April 2021.*
19. Ferreri, L. (2020) "Music and emotion: the role of dopaminergic reward system". *Seminar at Uppsala University (Finland), Online, 9 October 2020.*
18. Ferreri, L. (2020) "Musica ed emozioni". *Music and neuroscience – Seminar at G. Ferrari Music-Therapy School of Padova (Italy). Online, 24 May 2020.*
17. Ferreri, L. (2020) "Musique, mémoire et émotions" – *Seminar at Université de Lille, Lille, France, 21 January 2020.*
16. Ferreri, L. (2019) "Musique et émotions : du plaisir à la cognition". *Invited talk at IREMUS Sorbonne, Université Sorbonne, Paris, France, 16 November 2019.*
15. Ferreri, L. (2019) "La musique, un universel pour l'être humain". *Invited talk at Conservatoire Paris Saclay, Colloque Handicap et Enseignement Artistique, Paris, France, 03 March 2019.*
14. Ferreri, L., Cardona, G., Rodriguez-Fornells, A., (2018) "Music-related reward responses and their implications in episodic memory" *Symposium for SEPEX – SEPNECA – AIC Congress.* With Dr. Clément François, Dr. Daniele Schön and Dr. Lucía Vaquero. Madrid, Spain, 24 July 2018.
13. Ferreri, L., (2018). "Musique et cerveau: plasticité cérébrale et stimulation cognitive". *Keynote for Journées de la Création by SACEM & Nuits de Fourvière, Lyon, France, 28 June 2018.*
12. Ferreri, L. (2018). "The implications of dopaminergic transmission in musical pleasure and memory. *Invited talk at Barcelona Lectures Series, University of Barcelona, Barcelona, Spain, 31 May 2018.*
11. Ferreri, L. (2017): "Musica e memoria: dal piacere alla cognizione". *Music and neuroscience - Workshop, G. Ferrari Music-Therapy School. With Dr. Daniele Schön and Dr. Elvira Brattico, Padova, Italy, 18 November 2017*
10. Ferreri, L., Mas-Herrero, E., Ripollés, P. (2017): "The implications of dopaminergic transmission in affective responses and cognitive functions". *Seminar at Montreal Neurological Institute, McGill University, Canada, 7 October 2017.*
9. Ferreri, L. (2017): "Music-related reward responses and memory performance: a pharmacological approach". *Seminar at David Poeppel's Lab – seminar session, New York University, New York (USA), 20 June 2017.*
8. Ferreri, L., et al. (2017): "Music-related reward responses modulate episodic memory formation via the hippocampus-dependent dopaminergic circuit". *Neuroscience and Music VI – Outstanding Poster Awards oral sessions, Boston (USA), 15-18 June 2017.*
7. Ferreri, L., (2015): "Music and memory", *Theory and Practice of Music Cognition - Workshop, Academia Teatro alla Scala, Milano, Italy, 10 March 2015.*

6. **Ferreri, L.**, (2015): "Emotions and memory: music and the aging process", *Invited talk at "Musica: un senso per tutti – strategie musicoterapiche per l'ampliamento delle capacità comunicative in ambito clinico e didattico" - Workshop*, Rovereto, Italy, 15 January 2015.
5. **Ferreri, L.**, (2014): "Less efforts for better results? Music, memory and prefrontal cortex in fNIRS studies", *Symposium for the National Congress of Experimental Psychology. With Dr. Daniele Schön and Pr. Tomaso Vecchi*, Pavia, Italy, 15 September 2014.
4. **Ferreri, L.**, (2014): "NIRS for music-therapy based investigation in premature infants", *Seminar at MANDARI meeting, Goldsmith University*, London, 2-5 July 2014.
3. **Ferreri, L.** (2013): "Investigating the effects of music on cognitive functions using fNIRS", *New perspectives for stimulating cognitive and sensory processes - Conference*, Pavia, Italy, 20-22 September 2013.
2. **Ferreri, L.**, Bigand, E., Bugaiska, A. (2013): "Near InfraRed Spectroscopy: an emerging tool for research in Cognitive Psychology", *Music in rehabilitation of patients with memory and learning deficits -Workshop*, Lille, France, 17-18 January 2013.
1. Muthalib, M., **Ferreri, L.** (2012): "Presentation of Near InfraRed Spectroscopy", *Seminar at LEAD seminar session*, Dijon, France, 6 September 2012.

Grants & Awards

2021 – 2024	ANRJC (Agence National de la Recherche – Jeune Chercheur) grant. 240k €
2019 – 2021	Lauréat IMPULSION (IDEX Lyon grant). 75k €
2018 – 2019	Grammy's Research Awards. With Dr. Ernest Más-Herrero and Dr. Robert Zatorre (McGill University, Montreal). 20k \$
2015 – 2016	Morelli-Rotary Foundation Postdoctoral Fellowship. 20k €

Other scientific activities

Peer reviewing: Aging, Neuropsychology and Cognition · Brain Structure & Function · Experimental Brain Research · Frontiers in Auditory Neuroscience · Frontiers in Psychology · Human Brain Mapping · Journal of Cognitive Psychology · Journal of Psychophysiology · Memory & Cognition · Musicae Scientiae · Music Perception · PlosONE · Psychology and Aging · Psychology and Neuroscience · Psychomusicology: Music, Mind, and Brain · Scientific Reports

Evaluation of scientific projects for: Max Planck Institute for Human Cognitive and Brain Sciences · Agence Nationale de la Recherche Scientifique (ANR)

Editor: Advances in cognitive Psychology (Associate) · Frontiers in auditory neuroscience (Associate) · Frontiers in Psychology (Guest Associate)

Scientific events organization:

- September 2021: "Music – better when together" REMEMUS ANR Workshop, Lyon, France
- October 2020: Journées d'Étude du Vieillessement (JEV), Online

Teaching activities

Qualifications

- France, MCF Section 16 (Psychology) 2015
- France, MCF Section 69 (Neuroscience) 2017
- Spain, AQU Lecturer 2017

University	Hours of teaching and position	Subjects	Degree	Language
Université de Bourgogne, Psychology Department	263h Assistant/Researcher	<ul style="list-style-type: none"> • Cognitive psychology (perception, memory and language) • Experimental methods • Music psychology • Neuroscience and music • Developmental psychology 	Bachelor's	French
Universitat de Barcelona, Psychology Department	190h Associate professor	<ul style="list-style-type: none"> • Cognitive psychology (memory) • Thinking and problem solving • Neuroscience (memory and neuroimaging) 	Bachelor's and Master	Spanish English
Université Lumière Lyon 2, Psychology Department	≈700h Associate professor	<ul style="list-style-type: none"> • Cognitive sciences • Cognitive neuroscience • Cognitive psychology • Psychobiology • Music psychology • Neuroscience and music 	Bachelor's and Master	French
Università degli Studi di Pavia, Psychology Department	48h Invited professor	<ul style="list-style-type: none"> • Neuroscience and music (M-PSI/01) 	Master	English
Università degli Studi di Padova, Psychology Department	8h Invited professor (ERASMUS+)	<ul style="list-style-type: none"> • Music Psychology 	Master	English

Academic roles and responsibilities

Role	University	A.Y.
Coordinator of the Master Program "Sciences Cognitives Fondamentales et Appliquées"	Université Lumière Lyon 2	2020-present
Coordinator of the Teaching Unit "Cognitive Neuroscience"	Université Lumière Lyon 2	2020-present
Supervisor of PhD thesis (2 students)	Universitat de Barcelona	2019-present
	Université Lumière Lyon 2	2021-present
Supervisor of research internship (Bachelor's, 6 students)	Université de Bourgogne	2013-2014
	Universitat de Barcelona	2015-2016
	Université de Lyon	2018-present
Supervisor of M. Sc. Thesis (33 students)	Université de Bourgogne	2013-2015
	Universitat de Barcelona	2015-2018
	Université Lumière Lyon 2	2018-present

Dissemination activities

Selected Talks	<ul style="list-style-type: none"> • Conference-debate "Musique, une drogue dure?" Peniche Pop' Paris, 21 March 2022 • Conference-debate "Cerveau et Musique", Semaine du cerveau, Institut Pasteur, Paris, 19 March 2022 • Conference-Concert "Musica e Scienza: il cervello musicale", with the Milano Verdi Orchestra & Maestro Ruben Jais, Auditorium Verdi, Milano, Italy, 18 February 2022. • Conference-Concert "Musique, émotions et mémoire. Du plaisir aux souvenirs", Pop'Science - Jazz à Vienne, Vienne, France, 9 Juillet 2021. • TEDx Milano "Che vita sarebbe senza musica?", Teatro Dal Verme, Milano, Italy, September 2019. • Café débat for the 80 years of CNRS, "Sur les traces de la mémoire", with H. Chainay, , O. Koenig, G. Plancher, R. Versace, Lyon, France, January 2020. • Conference-Concert, "Music and the swinging brain", with Pr. Emmanuel Bigand & Rolling String Quartet. Celebration for the 100 years of Carlo Besta Neurological Institute, Castello Sforzesco, Milan, Italy, 25 January 2018. 	
	<ul style="list-style-type: none"> • (2019) "Musique et mémoire", with E. Bigand, <i>Revue de Santé Scolaire et Universitaire</i>. • (2017) "Musique et plasticité neuronale", <i>Revue internationale d'éducation de Sèvres : Musique et éducation</i>. • (2016) "Quando la musica ci fa oscillare: un viaggio nella sincronizzazione neurale" <i>Neuroscienze ANEMOS</i>. 	
	<ul style="list-style-type: none"> • Focus (It), 2022 • Tempo Santé (Fr), 2021 • Radio Raheem (It), 2020 • The Huffington Post (Fr), 2020 • Le Figaro (Fr), 2020 • Inverse (Eng), 2019 • Psychology Today (Eng), 2019 • Le Figaro (Fr), 2019 • El Mundo (Esp), 2019 • La Vanguardia (Esp), 2019 	
	Selected press and media	

09/06/2022

