

## CURRICULUM VITAE

### INFORMAZIONI PERSONALI

Nome	Ferrari Chiara
Qualifica	RTDB
Amministrazione	Dipartimento di Studi Umanistici
E-mail istituzionale	chiara.ferrari@unipv.it

### TITOLI DI STUDIO E PROFESSIONALI ED ESPERIENZE LAVORATIVE

Titolo di studio	Dottorato di ricerca in Psicologia, Scienze Statistiche e Sanitarie, Università di Pavia (2016)
Altri titoli di studio e professionali	Master di secondo livello in Neuropsicologia: Diagnosi, Valutazione e Riabilitazione, Università Cattolica del Sacro Cuore, Milano (2012) Laurea Magistrale in Psicologia Clinica, Università Cattolica del Sacro Cuore, Milano (2010) Laurea Triennale in Scienze e Tecniche Psicologiche, Università Cattolica del Sacro Cuore, Milano (2008)
Esperienze professionali	<b>Incarichi accademici</b> Membro del Ph.D. program in Cognitive Brain Sciences, IUSS e Università di Pavia (2023-oggi) Membro del Ph.D. program in Psychology, Neuroscience, and Data Science, Università di Pavia (2022-oggi) RTDA, Dipartimento di Scienze del Sistema Nervoso e del Comportamento, Università di Pavia (2019-2022) Assegnista di ricerca, Dipartimento di Psicologia, Università Bicocca, Milano (2016-2019)

	<p><b>Insegnamenti accademici</b></p> <ul style="list-style-type: none"> <li>- <i>Psicologia Generale</i> (12 CFU), Laurea in Filosofia, Università di Pavia (2022-oggi)</li> <li>- <i>Cognition and Emotion ed Experimental Psychology</i>, Laurea Magistrale in Psychology, Neuroscience and Human Sciences, Università di Pavia, Pavia (2021-oggi)</li> <li>- <i>Intelligenza Emotiva</i> (18 hours), Open Badge, Università di Pavia (2022-oggi)</li> <li>- <i>Neurobiology of Memory</i>, Laurea Magistrale in Psychology, Neuroscience and Human Sciences, Università di Pavia, Pavia (2018-2021)</li> </ul>
Altro	<p><b>Attività di Ricerca</b> <b>Research Grants</b></p> <ul style="list-style-type: none"> <li>- <i>2023-2025: Co-Principal Investigator PRIN 2022 (PI of the University of Pavia Unit): project Your Eyes on Me: Neural and oculomotor mechanisms of gaze processing and social attention.</i></li> <li>- <i>2023-2025: Principal Investigator PRIN PNNR 2022: project Your Eyes on Me: Socio-emotional functions of the Cerebellum: Pathophysiological mechanisms and practical therapeutic implications in Spinocerebellar Ataxia.</i></li> </ul> <p><b>Pubblicazioni</b></p> <p><u>ARTICOLI IN GIORNALI SCIENTIFICI</u></p> <ul style="list-style-type: none"> <li>- Ciricugno, A., <b>Ferrari, C.</b>, Battelli, L., &amp; Cattaneo, Z. (2024). A chronometric study of the posterior cerebellum's function in emotional processing. <i>Current Biology</i>.</li> <li>- Arioli, M., <b>Ferrari, C.</b>, Merabet, L. B., &amp; Cattaneo, Z. (2024). Direct reciprocity and reputation shape trust decisions similarly in blind and sighted individuals. <i>Consciousness and Cognition</i>, 120-130.</li> <li>- Vandervert, L., Manto, M., Adamaszek, M., <b>Ferrari, C.</b>, Ciricugno, A., &amp; Cattaneo, Z. (2024). The Evolution of the Optimization of Cognitive and Social Functions in the Cerebellum and Thereby the Rise of Homo sapiens Through Cumulative Culture. <i>The Cerebellum</i>, 1-12.</li> <li>- Gatti, D., Rinaldi, L., Vecchi, T., &amp; <b>Ferrari, C.</b> (2023). Understanding cerebellar cognitive and social functions: methodological challenges and new directions for future transcranial magnetic stimulation studies. <i>Current Opinion in Behavioral Sciences</i>, 53, 101300</li> <li>- Fiori, F., Ciricugno, A., Cattaneo, Z., &amp; <b>Ferrari, C.</b> (2023). The Impact of the Perception of Primary Facial Emotions on Corticospinal Excitability. <i>Brain Sciences</i>, 13(9), 1291.</li> <li>- <b>Ferrari, C.</b>, Ciricugno, A., Arioli, M., &amp; Cattaneo, Z. (2023). Functional segregation of the human cerebellum in social cognitive tasks revealed by TMS. <i>Journal of Neuroscience</i>, 43(20), 3708-3717</li> <li>- Cattaneo, Z., <b>Ferrari, C.</b>, Ciricugno, A., Heleven, E., Schutter, D. J. L. G., Manto, M., &amp; Van Overwalle, F. (2022). New horizons on non-invasive brain stimulation of the social and affective cerebellum. <i>The Cerebellum</i>, 1-15.</li> </ul>

- **Ferrari, C.**, Vecchi, T., Sciamanna, G., Blandini, F., Pisani, A., & Natoli, S. (2021). Facemasks and face recognition: Potential impact on synaptic plasticity. *Neurobiology of Disease*, 2021, 153, 105319.
- **Ferrari, C.**, Fiori, F., Suchan, B., Plow, E.B., & Cattaneo, Z. (2021). TMS over the posterior cerebellum modulates motor cortical excitability in response to facial emotional expressions. *European Journal of Neuroscience*, 53(4), 1029–1039.
- Van Overwalle, F., Manto, M., Blevins, L. C., Cattaneo, Z., Clausi, S., **Ferrari, C.**, Gabrieli, J.D.E., Guell, X., Heleven, E., Lupo, M., Ma, Q., Michelutti, M., Olivito, G., Pu, M., Schmahmann, J. D., Siciliano, L., Sokolov, A., Stoodley, C. J., van Dun, K., Vandervert, L., & Leggio, M. (2020). Consensus Paper: Cerebellum and Social Cognition. *Cerebellum*, 19(6), 833-868.
- Ciricugno, A., **Ferrari, C.**, Rusconi, M.L., & Cattaneo, Z. (2020). The left posterior cerebellum is involved in orienting attention along the mental number line: an online-TMS study. *Neuropsychologia*, 143, 107497.
- **Ferrari, C.**, Oh, D., Labree, B., & Todorov, A. (2020). Learning the affective value of people: more than affect-based mechanisms. *Acta Psychologica*, 293, 103011.
- **Ferrari, C.**, Ciricugno, A., Battelly, L., Grossmann, E.D., & Cattaneo, Z. (2021, published online 2019). Distinct Cerebellar regions for Body Motion Discrimination. *Social, Cognitive and Affective Neuroscience*, nsz088.
- **Ferrari, C.**, Ciricugno, A., Urgesi, C., & Cattaneo, Z. (2021, published online 2019). Cerebellar contribution to emotional body language perception: a TMS study. *Social, Cognitive and Affective Neuroscience*, nsz074.
- Cattaneo, Z., **Ferrari, C.**, Schiavi, S., Alekseichuk, I., Antal, A., & Nadal, M. (2020). Medial prefrontal cortex involvement in aesthetic appreciation of paintings: a tDCS study. *Cognitive Processing*, 21(1), 65-76.
- **Ferrari, C.**, Papagno, C., Todorov, A., & Cattaneo, Z. (2019). Differences in Emotion Recognition from Body and Face Cues Between Deaf and Hearing Individuals. *Multisensory Research*, 32(6), 499-519.
- **Ferrari, C.**, Schiavi, S., & Cattaneo, Z. (2018). TMS over the superior temporal sulcus affects expressivity evaluation of portraits. *Cognitive, Affective, & Behavioral Neuroscience*, 18(6), 1188-1197.
- **Ferrari, C.**, Cattaneo, Z., Oldrati, V., Casiraghi, L., Castelli, F., D'Angelo, E., & Vecchi, T. (2018). TMS over the cerebellum interferes with short-term memory of visual sequences. *Scientific Reports*, 8(1), 6722.
- Cattaneo, Z., Lega, C., Rinaldi, L., Merabet, L. B., **Ferrari, C.**, & Vecchi, T. (2018). The Spatial Musical Association of Response Codes does not depend on a normal visual experience: a study with early blind individuals. *Attention, Perception, & Psychophysics*, 80(4), 813-821.
- **Ferrari, C.**, Oldrati, V., Gallucci, M., Vecchi, T., & Cattaneo, Z. (2018). The role of the cerebellum in explicit and incidental processing of facial emotional expressions: a study with transcranial magnetic stimulation. *Neuroimage*, 169, 256-264.
- **Ferrari, C.**, Vecchi, T., Merabet, L., & Cattaneo, Z. (2017). Blindness and social trust: the effect of early visual deprivation on judgments of trustworthiness. *Consciousness and Cognition*, 55, 156-164.

- **Ferrari, C.**, Gamond, L., Gallucci, M., Vecchi, T., Cattaneo, Z. (2017). An exploratory TMS study on prefrontal lateralization in valence categorization of facial expressions. *Experimental Psychology*, 64(4), 282-289.
- **Ferrari, C.**, Nadal, M., Schiavi, S., Vecchi, T., Cela-Conde, C., & Cattaneo, Z. (2017). The dorsomedial prefrontal cortex mediates the interaction between moral and aesthetic valuation: a TMS study on the Beauty-is-Good stereotype. *Social Cognitive and Affective Neuroscience*, 12(5), 707-717.
- Gamond, L., Vecchi, T., **Ferrari, C.**, Merabet, L., & Cattaneo, Z. (2017). Emotion processing in early blind and sighted individuals. *Neuropsychology*, 31(5), 516-524.
- Gamond, L., **Ferrari, C.**, La Rocca, S., & Cattaneo, Z. (2017). Dorsomedial prefrontal cortex and cerebellar contribution to in-group attitudes: a TMS study. *European Journal of Neuroscience*, 45(7), 932-939.
- **Ferrari, C.**, Vecchi, T., Todorov, A., & Cattaneo, Z. (2016). Interfering with activity in the dorsomedial prefrontal cortex via TMS affects social impressions updating. *Cognitive, Affective, & Behavioral Neuroscience*, 16(4), 626-634.
- **Ferrari, C.**, Lega, C., Vernice, M., Mende-Siedleki, P., Todorov, A., Vecchi, T., & Cattaneo, Z. (2016). The dorsomedial prefrontal cortex plays a causal role in integrating social impressions from faces and verbal descriptions. *Cerebral Cortex*, 26(1), 156-165.
- Falvello, V., Vinson, M., **Ferrari, C.**, & Todorov, A. (2015). The robustness of learning about the trustworthiness of other people. *Social Cognition*, 33(5), 368-386.
- **Ferrari, C.**, Lega, C., Tamietto, M., Nadal, M., & Cattaneo, Z. (2015). I find you more attractive... after (prefrontal cortex) stimulation. *Neuropsychologia*, 72, 87-93.
- Cattaneo, Z., Lega, C., **Ferrari, C.**, Vecchi, T., Cela-Conde, C. J., Silvanto, J., & Nadal, M. (2015). The role of the lateral occipital cortex in aesthetic appreciation of representational and abstract paintings: A TMS study. *Brain and Cognition*, 95, 44-53.
- Renzi, C., **Ferrari, C.**, Schiavi, S., Papagno, C., Pisoni, A., Antal, A., Vecchi, T., & Cattaneo, Z. (2015). The role of the occipital face area in face processing: a tDCS study. *Neuropsychology*, 29(3), 409-416.
- Balconi, M. & **Ferrari, C.** (2013). Left DLPFC rTMS stimulation reduced the anxiety bias effect or how to restore the positive memory processing in high-anxiety subjects. *Psychiatry Research*, 209(3), 554-559.
- Balconi, M., & **Ferrari, C.** (2013). Repeated transcranial magnetic stimulation on dorsolateral prefrontal cortex improves performance in emotional memory retrieval as a function of level of anxiety and stimulus valence. *Psychiatry and Clinical Neurosciences*, 67(4), 210-218.
- Balconi, M., & **Ferrari, C.** (2012). rTMS stimulation on left dorsolateral prefrontal cortex affects emotional cue retrieval as a function of anxiety level and gender. *Depression and Anxiety*, 29(11), 976-982.
- Balconi, M., & **Ferrari, C.** (2012). Emotional memory retrieval. rTMS stimulation on left DLPFC increases the positive memories. *Brain Imaging & Behavior*, 6(3), 454-461.
- Balconi, M., & **Ferrari, C.** (2012). rTMS stimulation on left DLPFC increases the correct recognition of memories for emotional target

and distractor words. *Cognitive, Affective & Behavioral Neuroscience*, 12(3), 589-598.

- Balconi, M., Sozzi, M., **Ferrari, C.**, Pisani, L., & Mariani, C. (2012). Eye movements and bisection behavior in spatial neglect syndrome: representational biases induced by the segment length and spatial dislocation of the stimulus. *Cognitive Processing*, 13, 89-92(SUPPL.1).
- Balconi, M., & **Ferrari, C.** (2012). Anxiety disorder and rTMS effect on left DLPFC memory retrieval process. *Neurorehabilitation and Neural Repair*, 26, 422.
- Balconi, M., Crivelli, D., **Ferrari, C.**, Sozzi, M., & Pisani, L. (2012). Vision-for-perception and vision-for-action in unilateral neglect: implications for rehabilitation. *Neurorehabilitation and Neural Repair*, 26, 421.
- Balconi, M., Amenta, S., & **Ferrari, C.** (2012). Emotional decoding in facial expression, scripts and video. A comparison between normal, autistic and Asperger children. *Research in Autism Spectrum Disorders*, 6(1), 193-203.
- Balconi, M. & **Ferrari, C.** (2012). Subliminal and supraliminal processing of facial expression of emotions: Brain oscillation in the left/right frontal area. *Brain Sciences*, 2(2), 85-100.
- **Ferrari, C.** & Balconi, M. (2011). rTMS on left DLPFC affects emotional memory retrieval. The contribution of the stimulus valence. ***Archives Italiennes de Biologie*, 149, 3.**
- **Ferrari, C.** & Balconi, M. (2011). DLPFC implication in memory processing of affective information. A look on anxiety trait contribution. *Neuropsychological Trends*, 9, 53-70.
- Balconi, M., **Ferrari, C.**, & Amenta, S. (2010). Dorsolateral Prefrontal Cortex Involvement in Recognition Memory. An rTMS Study on Stress-Related Words. *Neuropsychological Trends*, 8, 100-103.

#### CAPITOLI IN LIBRI

- **Ferrari, C.**, Ciricugno, A., & Cattaneo Z. (2022). Cerebellar contribution to emotional body language perception. In M. Adamaszek, M. Manto, & D., J., L., G., Schutter (Eds.), *The Emotional Cerebellum* (pp. 141-154). *Advances in Experimental Medicine and Biology*. Springer.
- Amenta, S., **Ferrari, C.**, & Balconi, M. (2014). Facial expression in autistic and Asperger children. In V.B Patel., V.R. Preedy, & C.R. Martin (Eds.), *A Comprehensive guide to autism* (pp. 1885-1904). London: Springer.
- Balconi, M. & **Ferrari, C.** (2013). Aversive vs. appetitive emotional stimulus elaboration. Subjective rating and Bis and Bas effects on psychophysiological and ERPs correlates. In M. Balconi (Ed.), *The psychology of rewards* (pp. 115-144). New York: Nova Science.
- Balconi, M., & **Ferrari, C.** (2013). The role of reward and inhibitory systems in subliminal and supraliminal processing of facial expression of emotions. Brain Research Contribution. In M. Balconi (Ed.), *The psychology of rewards* (pp. 1-30). New York: Nova Science.

#### LIBRI/MONOGRAFIE

**Ferrari, C.** (2022). Cosa sono le neuroscienze sociali? [What is social neuroscience?]. Bussole. Carocci Editore.

### **Attività Editoriale**

Reviewer per Biological Psychology; Brain Research; Frontiers in Psychology; Functional Neurology; Neuropsychologia; PlosOne; Cognitive Affective & Behavioral Neuroscience; Neuroimage; Cognition & Emotion; Social, Cognitive & Affective Neuroscience; Cortex; The Cerebellum.

### **Partecipazione a conferenze scientifiche:**

#### Contributi su invito

- 2023. The social and affective cerebellum: evidence from brain stimulation. *Invited talk at the symposium: "The social cerebellum". Associazione "la nostra famiglia" IRCCS E. Medea Polo Friuli Venezia Giulia. September 14<sup>th</sup> 2022, Udine, Italy*
- 2022. Functional topography of the cerebellum in response to the comprehension of others' emotional states: a TMS study. *Invited talk at the symposium: "New directions on the Social and Emotional Cerebellum", European Society for Cognitive and Affective Neuroscience (ESCAN), July 19-22, Vienna, Austria.*
- 2021. Neurostimulation of the Affective Cerebellum: Processing of others' Emotional Expressions. *Invited talk at the symposium: "The social cerebellum and its role in interaction sequences". Cognitive Neuroscience Society 2021-Annual Meeting virtual conference, 13-16 March, Virtual.*
- 2020. Investigating the role of the cerebellum in emotional processing via TMS: available evidence and future directions. *Invited talk at the symposium: "A non-invasive brain stimulation approach to the study of the affective and social cerebellum". 7th International Conference on Non-Invasive Brain Stimulation, 10-14 November, Virtual*
- 2019. Cerebellar Contribution to Biological Motion Perception. *Invited talk at the symposium: "New Insights and Evidence on the Social Function of the Cerebellum", International Convention of Psychological Science (ICPS), February 7-9, Paris, France.*
- 2018. TMS over the cerebellum reveals the role of the cerebellum in emotional and social processing: a study with transcranial magnetic stimulation. *Invited talk at the symposium: "The Social Cerebellum: New insights and evidence", European Society for Cognitive and Affective Neuroscience (ESCAN), July 19-22, Leiden, The Netherlands.*
- 2018. TMS over the cerebellum interferes with explicit and incidental processing of facial emotional expressions. *Invited talk at the symposium: "The social cerebellum", MeeTo 2018: From moving bodies to interactive minds, May 25-27, Turin, Italy.*
- 2017. Neural correlates of aesthetic experience. *Invited talk at the symposium "Da piacere al vizio: il ruolo della ricompensa nell'evoluzione, la cognizione, il cervello e la società", 23th Annual Meeting of the Italian Association of Psychology, Section of Experimental Psychology, September 20-22, Bari, Italy.*
- 2016. The cerebellum is involved in sequences processing and prediction: a TMS study. *Invited talk at the symposium: "New Evidence on the Role of the Cerebellum in Social Cognition", Third international conference of the European Society for Cognitive and Affective Neuroscience (ESCAN), June 23-26, Porto, Portugal.*

- 2016. Elaborazione emotiva dei corpi e deprivazione uditiva. Invited talk at the symposium "Dalla sordità alla struttura della mente", *22nd Annual Meeting of the Italian Association of Psychology, section of Experimental Psychology*, September 20-22, Rome, Italy.
- 2015. Invited talk by Prof. Van Overwalle. Talk title: "A cognitive role of the cerebellum in sequences detection: evidence from TMS", November 5, Vrije Universiteit Brussel, Bruxelles, Belgium.

#### Selezione di prestazioni di poster e contributi orali

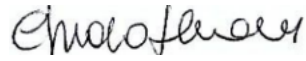
- Paternò, S., & Ferrari, C. (2023). Lateralization of the cerebellum in mentalizing: a TMS study. *NeuroCog2023*, November 23-24, Bruxelles, Belgium.
- Paternò, S., & Ferrari, C. (2023). The effect of face trustworthiness on motor corticospinal excitability: a transcranial magnetic stimulation study. *29th Annual Meeting of the Italian Association of Psychology (AIP), section of Experimental Psychology*, September 18-20, Lucca, Italy.
- Paternò, S., & Ferrari, C. (2023). Motor corticospinal excitability during the observation of faces varying in trustworthiness. *23rd Conference of the European Society for Cognitive Psychology (ESCOP)*, September 6-9, Porto, Portugal.
- Ferrari, C., & Cattaneo, Z. (2019). TMS over STS affects expressivity evaluation of portraits. *21st Conference of the European Society for Cognitive Psychology*, September 25-28, Tenerife, Spain.
- Ferrari, C., Vecchi, T., & Merabet, L., Cattaneo, Z. (2018). Blindness and social trust: The effect of early visual deprivation on judgments of trustworthiness. *23rd Annual Meeting of the Italian Association of Psychology, section of Experimental Psychology*, July 3-6, Madrid, Spain.
- Ferrari, C., Vecchi, T., Oldrati, V., & Cattaneo, Z. (2017). Visual motion discrimination and the vermis: A pilot study with slow-frequency TMS. *8th International Symposium of the Society for Research on the Cerebellum*, May 24-26, Winnipeg, Canada.
- Ferrari, C., Oldrati, V., Reverberi, C., Vecchi, T., & Cattaneo, Z. (2016). Slow-frequency TMS over the vermis impairs motion detection. A preliminary study on the lasting effects of cerebellar TMS over behavior. *International School Brain cells and circuits Camillo Golgi. The cerebellum inside out: cells, circuits and functions*, December 1-5, Ettore Majorana Foundation, Erice, Italy.
- Ferrari, C., Vecchi, T., Todorov, A., & Cattaneo, Z. (2015). The role of the dorsomedial prefrontal cortex in forming and updating social impressions. *19th Conference of the European Society for Cognitive Psychology*, September 17-20, Cyprus.
- Ferrari, C., Casiraghi, L., Oldrati, V., Bergonzoli, S., Cattaneo, Z., & Vecchi, T. (2015). Predictive functions of the cerebellum: a transcranial magnetic stimulation study. *7th Symposium of the Society for Research on the Cerebellum*, May 8-10, Brussels, Belgium.

Il sottoscritto, consapevole che – ai sensi dell’art. 76 del D.P.R. 445/2000 – le dichiarazioni mendaci, la falsità negli atti e l’uso di atti falsi sono puniti ai sensi del codice penale e delle leggi speciali, dichiara che le informazioni rispondono a verità.

Il sottoscritto dichiara di aver ricevuto l’informativa sul trattamento dei dati personali, pubblicata al seguente link: <https://privacy.unipv.it>.

Il sottoscritto è consapevole che il presente documento potrebbe essere oggetto di pubblicazione per finalità di trasparenza sul sito web dell’Università degli Studi di Pavia.

Pavia 28/08/2024

A handwritten signature in black ink, appearing to read 'Enrico...', written in a cursive style.