

CURRICULUM VITAE of LUIGI CATTANEO – Associate professor in Physiology, MD, PhD – UPDATED JANUARY 2024

1. GENERAL INFORMATION:

Born in MONTEVIDEO (URUGUAY) il 24/04/1974. **Citizenship:** italian. **email:** luigi.cattaneo@univr.it. **telephone:** +39 348-7337670 **skype_ID:** luigicattaneooskype **Spoken languages:** Italian (mother tongue); English, French, Spanish and Dutch.

2. ORCID: 0000-0001-8905-7529; Scopus ID:

3. EDUCATION:

| Period or Award date | Title/Certificate | Institution | Vote | Description |
|----------------------|--|---------------------|-------------------|--|
| 15/10/1997 | Degree in Medicine and Surgery | University of Pavia | 110/110 cum laude | 6-years track Thesis: “Excessive daytime sleepiness in epilepsy” – Supervisor Prof. A. Tartara |
| 1° sessione 1998 | Abilitation to the profession of Medical Doctor. | University of Pavia | pass | - |
| 20/11/2002 | Specialization in Neurology | University of Parma | 50/50 cum laude | 5-years track - Thesis: “Trigemino-facial inhibitory reflex in hemifacial spasm” – Supervisor Prof. G. Pavesi. |
| 10/03/2007 | PhD in Neuroscience | University of Parma | pass | 4-years track - Thesis: “Motor control of lower facial muscles” – Tutors: Prof. G. Rizzolatti and Prof. G. Pavesi. |

4. WORK EXPERIENCE:

| Period | Role | Institution | Details |
|-------------------------|----------------------------------|----------------------|---|
| 03/2007 – 03/2008 | Research fellow | University of Parma | Project: "Mirror system and motor control in autism" |
| 10/2008 – 09/2012 | Research fellow | University of Trento | Project: “brain stimulation methods for the study off neural representations of actions and objects” |
| 01/10/2012 – 20/12/2015 | Assistant professor | University of Trento | Ricercatore universitario a t.d. tipo A (art. 24 c.3-a L. 240/10) Sector: psychobiology (SSD M-PSI/02) |
| 21/12/2015 – 20/12/2018 | Tenure-track assistant professor | University of Verona | Ricercatore universitario a t.d. tipo B (art. 24 c.3-b L. 240/10) - Sector: physiology (SSD BIO/09) |
| 21/12/2018 – 30/09/2019 | Associate professor | University of Verona | Sector: physiology (SSD BIO/09) |

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| 01/10/2019 – present | Associate professor | University of Trento | Sector: psychobiology (SSD M-PSI/02) |
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5. INTERNATIONAL FELLOWSHIPS:

- (01/01/2004 – 1/07/2004): Marie-Curie training fellowship at the Institute of Neurology, Sobell Department of Motor Neurosciences, London (UK), supervised by Professor Roger N. Lemon.
- (01/10/2007 – 31/12/2007): research fellowship at the Neuroimaging center of UCSB - California supervised by Prof. Scott T. Grafton.

6. BioSketch:

I have been conducting research in the field of systems physiology and cognitive neuroscience for many years. The main theme of my research is to understand the biological and physiological correlates of behavior in humans, especially regarding the control of movement. The topics of my research are: sensorimotor transformations for movements of the upper limb and face. Particular attention is given to how complex categories such as the geometry of objects, the vision of biological movement, language and numerical quantities are represented in the motor system. Recently, I directed my attention to the ability of the human brain to establish flexible sensorimotor associations, based on abstract rules. In my research activity I have never lost sight of my clinical neurologist training and I test my psychophysiological hypotheses also on groups of patients. My research activity is carried out in complete autonomy in all its phases, including the conception and execution of experiments and the interpretation of scientific data. Given my clinical background I am extremely motivated to test the theoretical models developed with my basic research in a clinical setting. I am convinced of the importance of reconciling the basic physiology with the clinical disciplines of neurosurgery, neurology, neuroradiology and clinical neurophysiology. I use as main research tool Transcranial Magnetic Stimulation (TMS), of which I have deep knowledge. I am familiar with and have used also other methods of non-invasive brain stimulation (tDCS), the study of motion kinematics, the spectral analysis of EEG and event-related evoked potentials and structural neuroimaging (tractography) and functional (fMRI) techniques.

7. PAST RESEARCH COLLABORATION:

- Università degli Studi di Parma - Prof. Giacomo Rizzolatti.
- Università degli Studi di Parma - Prof. Giovanni Pavesi.
- Università degli Studi di Bologna – Prof. Elisabetta Làdavas.
- Univeristà di Grenoble – Prof. Marc Sato
- Arizona State Univerity – Prof. Arthur Glenberg
- University of Birmingham – Prof. Uta Noppeney

8. ACTIVE RESEARCH COLLABORATION:

- University of Verona: Prof Francesco Sala - intraoperative electrophysiology of the motor system

- University College London: Dr Davide Giampiccolo - intraoperative electrophysiology of the motor system
- Aix-Marseille University: Dr. Thomas Brochier - the role of the parietal opercular cortex in haptically-guided movement.
- University of Milan Statale: Prof. Corrado Sinigaglia and Dr. Guido Barchiesi - action observation in the parietal and premotor cortices
- University of Surrey (London): Prof. Juha Silvanto - state-dependency in brain stimulation.
- University of Sassari: Prof. Franca Deriu - control of orofacial voluntary and affective movements
- University di Milano-Bicocca: Prof. Marco Marelli - embodied representation of concrete and abstract language
- University of Pavia: Prof. Carlotta Lega - the role of the motor system in musical perception

9. ITALIAN NATIONAL SCIENTIFIC ABILITATION:

- Abilitazione al ruolo di II fascia in **Fisiologia (05/D1, ex settore BIO/09)** conseguita nella tornata 2012, valida a partire dal 31/01/2014.
- Abilitazione al ruolo di II fascia in **Neurologia (06/D6, ex settore MED/26)** conseguita nella tornata 2012, valida a partire dal 03/02/2014.
- Abilitazione al ruolo di II fascia in **Psicologia Generale, Psicobiologia e Psicometria (11/E1, ex settori M-PSI/01, M-PSI/02 e M-PSI/03)** nella tornata 2012, valida a partire dal 25/02/2014.
- Abilitazione al ruolo di I fascia in **Fisiologia (05/D1, ex settore BIO/09)** conseguita nella tornata 2016-2018 (primo quadrimestre) valida a partire dal 04/04/2017
- Abilitazione al ruolo di I fascia in **Psicologia Generale, Psicobiologia e Psicometria (11/E1, ex settori M-PSI/01, M-PSI/02 e M-PSI/03)** nella tornata 2022 (primo semestre), valida a partire dal 27/01/2022.

10. AWARDED GRANTS (more recent first)

| period | title | Granting agency | role | Funded grant |
|-------------------|--|--|-------------------|--------------|
| 12/2023 – 12/2025 | Motivated Behaviour in the Superior Frontal Gyrus in Health and Disease (MoBS) | PRIN program from the Ministry of Unic | coordinator | 104.000 €. |
| 09/2022 – 08/2025 | Twinning for excellence in non-invasive brain stimulation in Western Balkans (TWINNIBS) | European Union – project HORIZON-WIDERA-2021-ACCESS-02 | local coordinator | 70.000 €. |
| 09/2021 – 09/2024 | A swing between the inner and the outer worlds: exploring the function of the frontal aslant tract in with transcranial magnetic stimulation | the BIAL foundation | coordinator | 44.000 €. |
| 09/2020 – 08/2023 | NEURO-CONNECT - Systems neuroscience meets clinical neurosurgery: development of novel multimodal monitoring indices of brain connectivity in patients with glioma | Cassa di Risparmio di Verona foundation | local coordinator | 340.000 €. |

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| 10/2018-11/2019 | Progettazione di un'ortesi robotica per l'arto superiore con controllo mioelettrico e indirizzata a soggetti con debolezza muscolare | European Social Fund | local coordinator | 92.700 € |
| 09/2016 – 08/2018 | Brain Action. A New View on Real Actions: Neural Mechanisms of Visuo-Motor Transformations | Supervisor of Simona Monaco, to whom the grant has been issued | Marie Skłodowska-Curie Individual Fellowships | 168.000 € |
| 10/2006-09/2007 | Brain mapping of the cortical representation of facial movements in patients with congenital facial palsy undergoing surgical procedures of facial animation | Telethon foundation | coordinator | 40.000 €. |

11. EDITORIAL ACTIVITY:

- Academic Editor for PLOS One (since 2013). Ad-hoc reviewing editor for eLife (2016) Member of the Editorial Advisory Board del Journal of Cognitive Enhancement (since 2016).
- Ad-hoc reviewer for: Acta Psychologica; Annals of Clinical and Translational Neurology; Annals of Internal Medicine; Behavioral Brain Research; Brain; Brain Stimulation; Brain Topography; Cerebral Cortex; Clinical Neurophysiology; Cognition; Consciousness and Cognition; Cortex; European Journal of Neurology; European Journal of Neuroscience; e-Life; Frontiers in Human Neuroscience; Journal of Neurology, Neurosurgery and Psychiatry; Journal of Neurophysiology; Journal of Neuroscience; Journal of Psychiatry; JoVE - Journal of Video Experiments; Muscle and Nerve; Nature Communications; Neuroimage; Neurology Research International; Neuropsychologia; Philosophical Transactions of the Royal Society B; PLOS One; Scientific Reports; Social Cognitive and Affective Neuroscience.

12. REVIEWER FOR RESEARCH GRANT AGENCIES: Research Foundation Flanders (FWO) (2012-2018); Marie Skłodowska-Curie actions - Research Fellowship Programme (2013); Manchester University; mental health and neurodegeneration research group. (2014); The Danish Council for Independent Research (2015); Member of the REPRISE board for grant review of the Italian ministry of University and Education (since 2017); the Vienna Science and Technology Fund (www.wwtf.at - 2021). 2022: Gertrude von Meissner Foundation, Geneva.

13. SOCIETY MEMEBERSHIPS:

The Brainstem Society; Società Italiana di Neurologia (SIN); Società Italiana di Psicofisiologia (SIPF); Società Italiana di Fisiologia (SIF).

14. AWARDS:

- Selection for “e-poster presentation” with the work “State-Dependent TMS Reveals Tuning for Different Observed Grip Types in the Ventral Premotor Cortex” at the meeting of the Organization for Human Brain Mapping (Barcelona 2010).

- Selected as best poster with the work “One’s motor behavior predictably modulates the understanding of others’ actions through adaptation of premotor visuo-motor neurons” at the Magstim TMS Summer School (Oxford 2010), Oxford UK
- Selected symposium at the XX Congresso Nazionale della Società Italiana di Psicofisiologia (novembre 2012, Venezia) with the proposal “interfaccia tra controllo esecutivo e comportamento automatico”.
- **Vincitore del “Premio della Società Italiana di Psicofisiologia 2015 per la brillante attività di ricerca nell’ambito della psicofisiologia” (Lucca, Novembre 2015)**
- Selected symposium “Visual and auditory praxic environment in the primate brain: space, objects and agents” XXVI Congresso Nazionale SIPF, Turin, 15-17 Novembre 2018

15. Ad-hoc INVITED TALKS:

- a) “New approaches to the study of action observation using transcranial magnetic stimulation (TMS)” presented at the ***Trieste Symposium on Perception and Cognition*** - October 28, 2010 in Trieste (Italy).
- b) “Transcranial Magnetic Stimulation approaches to action understanding” presented at the ***Italy-Israel Dialogue on Cognitive and Affective Neuroscience***. November 7-8, 2011 at the Inter-disciplinary college of Herzliya, (Israel).
- c) “Motor mirroring meets motor performance” presented at the ***16th world congress of psychophysiology***. September 13-17, 2012 in Pisa (Italy).
- d) “Early and Late Motor responses to Action Observation” presented at the meeting ***Mirror neurons: new frontiers 20 years after their discovery***. September 2, 2012 at Erice (Italy).
- e) “Motor resonance meets motor performance” as an ***Institute of Movement Neuroscience Symposium***. May 7, 2013 at the Sobell Department of Movement Neuroscience – UCL – London (UK).
- f) “Bottom-up and Top-down responses to action observation” Seminar at the ***Facoltà di Psicologia, Università di Bologna***. May 30, 2013.
- g) “Motor mirroring meets motor performance” – ***Formal Donders DCC lecture***. October 8, 2013 at the Radboud Universiteit - Nijmegen (NL).
- h) “Le basi neurali delle scelte di azione” – seminar held the ***Scuola di Dottorato di Scienze della Vita e della Salute***, University of Verona. December 17, 2014
- i) “Motor representations in the brain” seminar at the ***Interdisciplinary workshop on Practical Reasoning and Motor Representation*** at the University of Warwick (UK). June 2, 2015.
- j) Lectio magistralis at the ***National congress of the Italian Psychophysiological society***, November 20, 2015 in Lucca (Italy).
- k) “Mapping sensorimotor functions in the human premotor cortex” presented at the international neuropsychological symposium (INS), Cassis (France) 30 June 2018.
- l) “inhibitory set-related activity in the dorsal premotor cortex” seminar held at the ***Centro di Neurofisiologia Traslazionale del linguaggio e della comunicazione IIT@UNIFE***. University of Ferrara, on June 13, 2018
- m) Organizer of the symposium “Behaviorally-committed representation of the world in the primate brain: objects agents and space” ***19th World Congress of Psychophysiology (IOP2018)***, Lucca, 6 settembre 2018.
- n) Organizer of the symposium “Visual and auditory praxic environment in the primate brain: space, objects and agents” XXVI ***Congresso Nazionale SIPF***, Turin, 15-17 Novembre 2018

- o) "Spatial sampling with TMS: theoretical issues and application to the motor system" seminar held in the **NeuroPhilosophy series** of the University of Milan- Statale – organizer Prof. Corrado Sinigaglia – May 2019
- p) "Corticomotor connectivity evaluated by non-invasive and invasive brain stimulation" seminar held at the **Department of Biomedical and Clinical Sciences "Luigi Sacco"** in Milan – June 2019 - @ the thalamocortical Laboratory led by Marcello Massimini.
- q) "Frontal and parietal connectivity to the motor cortex" talk held at the EANS meeting New Frontiers in Intraoperative Neurophysiology Bridging Neurosciences and Neurosurgery: 2-4 February 2023 Verona, Italy
- r) "Variability induced by state dependency in cognition" talk held at the **Expert Workshop - Controversies in Brain Stimulation: Targeting Variability in Transcranial Stimulation Research** Munich, October 8, 2023

16. ORGANIZATION OF MEETINGS/EVENTS:

- Scientific committee of the EANS meeting - New Frontiers in Intraoperative Neurophysiology Bridging Neurosciences and Neurosurgery: 2-4 February 2023 Verona, Italy

17. TEACHING ACTIVITY:

I held courses on the biological bases of behavior and cognition, human physiology, clinical neurophysiology, brain stimulation, neuropsychology and introduction to neuroscience at the BA and master courses in psychology, at the school of medicine, at the specialization schools in neurology and in neurosurgery. I have supervised 5 PhD students, and more than 40 students for internship and thesis in the tracks of Psychology, Cognitive Neuroscience, Bioinformatics, Neuroscience and Medicine.

17.1. Previous courses:

| Insitution | School | Course | language | Hours/year | Time period |
|----------------------|--|--|----------|------------|-------------------------------------|
| University of Parma | Scuola di Specializzazione in Neurologia | attività didattica integrativa "Approfondimento di tecniche neurofisiologiche applicate allo studio del movimento" | italian | 8 hours | 2003-2004 |
| University of Parma | Corso di Laurea in Medicina e Chirurgia | attività didattica elettiva "Tecniche neurofisiologiche" | italian | 10 hours | 2006-2008 |
| University of Trento | Corso di laurea triennale Scienze e Tecniche di Psicologia Cognitiva | Neuroscienze del comportamento | italian | 28 hours | 2014-2015 2015-2016 |
| University of Trento | Corso di laurea magistrale in Cognitive Sciences | Foundations of Brain Imaging – modulo di neuroanatomia | english | 18 hours | 2013-2014 2014-2015 2015-2016 |

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| University of Trento | Scuola di dottorato in Cognitive and Brain Sciences | Brain Stimulation Techniques | english | 9 hours | 2011-2012 2012-2013 2013-2014 2014-2015 2015-2016 |
| University of Trento | corso PAS - classe di concorso A040 – igiene, anatomia, fisiologia, patologia generale e dell'apparato masticatorio | Anatomia e fisiologia del sistema orofacciale | italian | 8 hours | 2014-2015 |
| University of Verona | Corso di laurea triennale in fisioterapia – Sede di Verona | Fisiologia generale (BIO/09) | italian | 30 hours | 2015-2016 2016-2017 2017-2018 2018-2019 |
| University of Verona | Corso di laurea triennale in infermieristica – Sede di Trento | Fondamenti Morfo-Funzionali della Vita, modulo di Fisiologia (BIO/09) | italian | 36 hours | 2014-2015 2015-2016 2016-2017 2017-2018 2018-2019 |
| University of Verona | Scuola di specialità in Neurochirurgia | Fisiologia (BIO/09) | italian | 12 hours | 2016-2017 2017-2018 2018-2019 |
| University of Verona | Scuola di specialità in ORL | Fisiologia (BIO/09) | italian | 12 hours | 2016-2017 2017-2018 2018-2019 |
| University of Verona | Corso di laurea in Medicina e Chirurgia | Tirocinio di ricerca sperimentale (BIO/09) | italian | 25 hours | 2017-2018 2018-2019 |
| University of Verona | Corso di laurea triennale in logopedia | Fisiologia (BIO/09) | italian | 20 hours | 2018-2019 |
| University of Verona | Corso di laurea in Medicina e Chirurgia | Fisiologia I – esercitazioni (BIO/09) | italian | 13 hours | 2018-2019 |

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| University of Trento | Master Program in Cognitive Science | Clinical Neuropsychology | english | 40 hours | 2019-2020 |
| University of Trento | Master Program in Cognitive Science | Neuroscience (BIO/09) | english | 40 hours | 2019-2020 |
| University of Trento | Master Program in Cognitive Science | Clinical Neurology and Neuropsychology | english | 30 hours | 2020-2021 |
| University of Trento | Corso di laurea triennale Scienze e Tecniche di Psicologia Cognitiva | Basi biologiche del comportamento | italian | 63 hours | 2020-2021 |

17.2. Current teaching:

| Sede | Corso di laurea/Scuola | Titolo del corso | Lingua | Ore/ anno | Anno di corso |
|----------------------|---|---|----------|-----------|---------------------|
| University of Trento | Master Program in Cognitive Science | Neural bases of human behavior (BIO/09) | english | 42 hours | 2021-2022 - current |
| University of Trento | Corso di Laurea in Medicina e Chirurgia | Fisiologia umana (II modulo) (BIO/09) | italiano | 84 hours | 2021-2022 - current |
| University of Trento | PhD Cognitive and Brain Sciences | Neuroanatomy | english | 6 | 2022-23 – current |
| University of Trento | Dottorato Nazionale in Space Science and Technology - SST | Physiological adaptations to microgravity, altitude and hypoxia | english | 8 | 2022-23 – current |

17.3. Student supervision:

- 2010-2016 – member of the council of the PhD program in Cognitive and Brain Sciences University of Trento. Supervisor of 4 PhD students: Guido Barchiesi, Francesca Maule, Silvia Ubaldi e Sara Parmigiani.
- 2017-2020 – member of the council of the PhD program in Neuroscience of the University of Verona. Supervisor of one student: Martina Pirruccio.
- Supervisor of more than 20 students' thesis in Psychology, Bioinformatics and Medicine.
- 2022-now – member of the council of the PhD program in Cognitive and Brain Sciences University of Trento. Supervisor of 1 PhD student: Marco Tagliaferri.

17.4. Post-doctoral supervision: 2012-present: Supervision of 5 research fellows for a total of 11 years/person.

18. SCIENTIFIC PRODUCTION

18.1. BIBLIOMETRIC INDEXES: As of January 2024 (Scopus database), I have published 97 peer-reviewed publications, 43 of which as corresponding author, 28 as first author and 27 as last author. I have on average 46 citations per article. The mean Journal Citation Report (Impact Factor) is of 4.62, with reference to the year of publication. *H-index*=30, Citations= 4339.

18.2. TEXTBOOK CHAPTERS:

- Chapter “Language”. Series “Handbook of Clinical Neurology” – Volume 116 “Brain Stimulation” edited by Mark Hallett and Andres Lozano. Elsevier Publishers.
- Chapter “Transcranial magnetic stimulation in the study of brain lateralization” –Serie Neuromethods, Volume “Lateralized brain functions” – edited by Leslie Rogers and Giorgio Vallortigara.

18.3. PEER-REVIEWED PUBLICATIONS:

| # | authors | title | year | source | reference | type | 1st author | last author | Corr. author | Impact factor |
|----|---|--|------|--|------------------|---------|------------|-------------|--------------|---------------|
| | Tagliaferri, M., Giampiccolo, D., Parmigiani, S., Avesani, P., Cattaneo, L. | Connectivity by the Frontal Aslant Tract (FAT) explains local functional specialization of the superior and inferior frontal gyri in humans when choosing predictive over reactive strategies: a tractography-guided TMS study | 2023 | The Journal of Neuroscience | 43(41):6820–6829 | Article | | y | y | 5.3 |
| | Giampiccolo, D., Cattaneo, L., Sala, F. | Untangling wave characteristics in direct axono-cortical evoked potentials to understand cortico-cortical evoked potentials | 2023 | Clinical Neurophysiology | 153:187–188 | Article | | | | 4.7 |
| | Lega, C., Cattaneo, L., Costantini, G. | How to Test the Association Between Baseline Performance Level and the Modulatory Effects of Non-Invasive Brain Stimulation Techniques | 2023 | Frontiers in Human Neuroscience | 16:920558 | Article | | | | 2.9 |
| 91 | Giampiccolo, D., Nunes, S., Cattaneo, L., Sala, F. | Functional Approaches to the Surgery of Brain Gliomas | 2022 | Advances and technical standards in neurosurgery | 45:35-96 | Article | | | | - |
| 90 | Velji-Ibrahim, J., Crawford, J.D., Cattaneo, L., Monaco, S. | Action planning modulates the representation of object features in human fronto-parietal and occipital cortex | 2022 | European Journal of Neuroscience | | Article | | | | 3.4 |

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| 89 | Giampiccolo, D., Parmigiani, S., Basaldella, F., Russo, S., Pigorini, A., Rosanova, M., Cattaneo, L., Sala, F. | Reply to “Intraoperative cortico-cortical evoked potentials for monitoring the arcuate fasciculus: Feasible under general anesthesia?” | 2022 | Clinical Neurophysiology | 133:177-178 | Letter | | | | 3.708 |
| 88 | Giampiccolo, D., Parmigiani, S., Basaldella, F., Russo, S., Pigorini, A., Rosanova, M., Cattaneo, L., Sala, F. | Recording cortico-cortical evoked potentials of the human arcuate fasciculus under general anaesthesia | 2021 | Clinical Neurophysiology | 132:1966-1973 | Article | | y | | 3.708 |
| 87 | Finocchiaro, C., Cattaneo, L., Lega, C., Miceli, G. | Thematic Reanalysis in the Left Posterior Parietal Sulcus: A TMS Study | 2021 | Neurobiology of Language | 2:416-432 | Article | | | | - |
| 86 | Sala, F., Giampiccolo, D., Cattaneo, L. | Novel Asleep Techniques for Intraoperative Assessment of Brain Connectivity | 2021 | Frontiers in Neurology | 12:687030 | Review | | y | | 4.003 |
| 85 | Cattaneo, L., Parmigiani, S. | Stimulation of different sectors of the human dorsal premotor cortex induces a shift from reactive to predictive action strategies and changes in motor inhibition: A dense transcranial magnetic stimulation (tms) mapping study | 2021 | Brain Sciences | 11:534 | Article | y | | y | 3.394 |
| 84 | Giampiccolo, D., Basaldella, F., Badari, A., Squintani, G.M., Cattaneo, L., Sala, F. | Feasibility of cerebello-cortical stimulation for intraoperative neurophysiological monitoring of cerebellar mutism | 2021 | Child's Nervous System | 37:1505-1514 | Article | | | | 1.475 |
| 83 | Lega, C., Santandrea, E., Ferrante, O., Serpe, R., Dolci, C., Baldini, E., Cattaneo, L., Chelazzi, L. | Modulating the influence of recent trial history on attentional capture via transcranial magnetic stimulation (TMS) of right TPJ | 2020 | Cortex | 133:149-160 | Article | | | | 4.027 |
| 82 | Pirruccio, M., Monaco, S., Della Libera, C., Cattaneo, L. | Gaze direction influences grasping actions towards unseen, haptically explored, objects | 2020 | Scientific Reports | 10:15774 | Article | | y | y | 4.38 |

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| 81 | Vercesi, L., Sabnis, P., Finocchiaro, C., Cattaneo, L., Tonolli, E., Miceli, G. | The role of the I-IPS in the comprehension of reversible and irreversible sentences: an rTMS study | 2020 | Brain Structure and Function | 225:2403-2414 | Article | | | | 3.27 |
| 80 | Giampiccolo, D., Cattaneo, L., Basaldella, F., Kenneth Ricciardi, G., Sala, F. | Intraoperative neuromonitoring predicts motor recovery in a long-term hemiplegic patient with a Rolandic metastasis | 2020 | Clinical Neurophysiology | 131:2276-2278 | Article | | | | 3.708 |
| 79 | Monaco, S., Malfatti, G., Culham, J.C., Cattaneo, L., Turella, L. | Decoding motor imagery and action planning in the early visual cortex: Overlapping but distinct neural mechanisms | 2020 | NeuroImage | 218:116981 | Article | | | | 6.556 |
| 78 | Lega, C., Pirruccio, M., Bicego, M., Parmigiani, L., Chelazzi, L., Cattaneo, L. | The Topography of Visually Guided Grasping in the Premotor Cortex: A Dense-Transcranial Magnetic Stimulation (TMS) Mapping Study | 2020 | Journal of Neuroscience | 40:6790-6800 | Article | | y | y | 6.167 |
| 77 | Cattaneo, L., Giampiccolo, D., Meneghelli, P., Tramontano, V., Sala, F. | Cortico-cortical connectivity between the superior and inferior parietal lobules and the motor cortex assessed by intraoperative dual cortical stimulation | 2020 | Brain Stimulation | 13:819-831 | Article | y | | y | 8.955 |
| 76 | Lega, C., Chelazzi, L., Cattaneo, L. | Two distinct systems represent contralateral and ipsilateral sensorimotor processes in the human premotor cortex: A dense tms mapping study | 2020 | Cerebral Cortex | 30:2250-2266 | Article | | y | y | 5.357 |
| 75 | Pilurzi, G., Ginatempo, F., Mercante, B., Cattaneo, L., Pavesi, G., Rothwell, J.C., Deriu, F. | Role of cutaneous and proprioceptive inputs in sensorimotor integration and plasticity occurring in the facial primary motor cortex | 2020 | Journal of Physiology | 598:839-851 | Article | | | | 5.182 |
| 74 | Vergallito, A., Petilli, M.A., Cattaneo, L., Marelli, M. | Somatic and visceral effects of word valence, arousal and concreteness in a continuum lexical space | 2019 | Scientific Reports | 9:20254 | Article | | | | 3.998 |
| 73 | Lega, C., Ferrante, O., Marini, F., Santandrea, | Probing the neural mechanisms for distractor filtering and their history- | 2019 | Journal of Neuroscience | 39:7591-7603 | Article | | | | 5.674 |

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| | E., Cattaneo, L., Chelazzi, L. | contingent modulation by means of TMS | | | | | | | | |
| 72 | De Pisapia, N., Barchiesi, G., Jovicich, J., Cattaneo, L. | The role of medial prefrontal cortex in processing emotional self-referential information: a combined TMS/fMRI study | 2019 | Brain Imaging and Behavior | 13:603-614 | Article | | y | | 3.391 |
| 71 | Taga, A., Poma, G., Cattaneo, L., Saccani, E., Tinchelli, S., Pavesi, G. | Radial Nerve F-wave reference values with surface electrodes from the anconeus muscle | 2019 | Muscle and Nerve | 59:244-246 | Article | | | | 2.505 |
| 70 | Parmigiani, S., Cattaneo, L. | Stimulation of the Dorsal Premotor Cortex, But Not of the Supplementary Motor Area Proper, Impairs the Stop Function in a STOP Signal Task | 2018 | Neuroscience | 394:14-22 | Article | | y | y | 3.244 |
| 69 | Parmigiani, S., Zattera, B., Barchiesi, G., Cattaneo, L. | Spatial and Temporal Characteristics of Set-Related Inhibitory and Excitatory Inputs from the Dorsal Premotor Cortex to the Ipsilateral Motor Cortex Assessed by Dual-Coil Transcranial Magnetic Stimulation | 2018 | Brain Topography | 31:795-810 | Article | | | y | 3.104 |
| 68 | Cattaneo, L. | Fancies and fallacies of spatial sampling with transcranial magnetic stimulation (TMS) | 2018 | Frontiers in Psychology | 9:1171 | Article | y | y | y | 2.129 |
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18.4. Non- peer reviewed publications:

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- G. Pavesi, L. Cattaneo. *Osservazioni sul ruolo dell’elettromiografia nella diagnosi delle neuropatie periferiche*. Progressi in Reumatologia. 2002. 3: p. 108-111
- P. Manganelli, G. Pavesi, E. Chierici, L. Cattaneo, L. Pavone, G. Garini, C. Buzio. *L’interessamento del sistema nervoso periferico nelle vasculiti ANCA-associate*. Reumatismo, 2004. 56: p. 69-71
- L. Cattaneo, G. Pavesi, E. Chierici, F. Gemignani, A. Marbini. *Capitolo 13: La vasculite isolata del sistema nervoso periferico (neuropatia vasculitica non-sistemica)*. in “Testo atlante delle vasculiti”, di Buzio, Manganelli, Pesci, Garini. Casa editrice Mattioli 1885, Parma, anno 2006; ISBN: 978-88-89397-35-7. pp 107-110
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19. CLINICAL ACTIVITY:

- 2003-2009. Autonomous clinical activity in general Neurology, emergency Neurology and clinical Neurophysiology.
- 2008-2015: supervising MD for the neurostimulation laboratory of the CIMeC (University of Trento).
- October 2019-2023 “medico responsabile” for the use off the 3T magnet of the CIMeC.