Milano, October 2018.

Curriculum Vitae - short

Zaira Cattaneo

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CURRENT POSITION

2017-now Associate Professor in Psychobiology and Physiological Psychology, Department of Psychology, University of Milano-Bicocca, Milano, Italy

2010-now Member of the Cognitive Neuroscience and TMS laboratory, Brain Connectivity Center, IRCCS Mondino, Pavia, Italy.

2014-now Member of the Milan Center for Neuroscience (http://neuromi.it/)

Habilitations

2017 (April) Habilitation as Full Professor in Neuropsychology
2006 Ph.D. in Psychology, University of Pavia, Pavia, Italy

RESEARCH AWARDS

2014 PAUL BERTELSON AWARD 2015, European Society of Cognitive Psychology (ESCOP) "granted every two years to an outstanding young scientist for making a significant contribution to European Cognitive Psychology".

2016 Best scientific article in pre-clinical research for year 2014, IRCCS Casimiro Mondino

INVITED PRESENTATIONS/CHAIRS

Keynote lectures:

- **Cattaneo, Z** (2016) Keynote lecture "Brain stimulation and the neural bases of aesthetic appreciation", *14^ Conference of the International Association of Empirical Aesthetics.* Wien, Austria.

- **Cattaneo, Z** (2015). Paul Bertelson Award Keynote lecture, *19th ESCOP Conference*, Paphos, Cyprus.

Invited chair:

- 2016 *6th International Conference on Transcranial Brain Stimulation 2016*- Session title: "What is stimulated? Beyond M1", September 7-10, Gottingen, Germany.

Other invited talks in national and international conferences/workshops/seminars:

- **Cattaneo** Z (2018). Neural bases of aesthetic evaluation: insight from non-invasive brain stimulation. *Visual Neuroaesthetics Symposium (VisNA) 2018*. Max Planck Institute for Empirical Aesthetics, Frankfurt, Germany

- **Cattaneo Z** (2017). Enhancing cognitive functions by means of Transcranial Magnetic Stimulation. W*orkshop on Cognitive Enhancement*, *ESCOP 2017*, Potsdam, September 3, 2017.

- **Cattaneo Z** (2017). Brain stimulation in Neuroaestehtics. *International workshop in neuroaesthetics*, Palma, May 2017.

- **Cattaneo Z** (2016). From Symmetry Perception to Neuroaesthetics. *PhiloNeuro seminars*, Università Statale di Milano, Facoltà di Filosofia, February 29, Milan, Italy

- **Cattaneo Z** (2015). From Symmetry Perception to Neuroaesthetics. *Workshop on Perception: Embodied Cognition, Empathy, Normativity/Values, Social Cognition*, Università Vita-San Raffaele, Facoltà di Filosofia, October 15, Milan, Italy

- **Cattaneo Z.** (2014). What can we do about the preference for curvature from the neuroimaging studies? *Symposium on The Human Aesthetic (and Moral) Nature: The preference for curvature.* EVOCOG-IFISC/UIB research group, December 17-18, University of the Balearic Islands, Palma de Mallorca (Spain).

- **Cattaneo Z** (2013). Blind vision: perceptual and cognitive functioning in the blind, *2nd Challenges Workshop Andrea Bocelli Foundation-Massachusetts Institute of Technology*, December 5-6, Boston, US.

- **Cattaneo Z** (2012). What could neurophysiology add to assessment for Early Intervention of VI infants and children? *2nd World Congress of Paediatric Ophthalmology and Strabismus,* September 7-9, Milan, Italy.

- **Cattaneo Z** (2011). Visual cortical activation states associated with short-term memory and mental imagery. *International Neuropsychological Symposium 2011*, June 21-25, Mondsee, Austria.

- **Cattaneo Z** (2010). What happens in the early processing of visual information, V1/V2? *Provision 1^ International Conference (Visual problems in children with brain damage. What is new?)*, September 8-11, Dortmund, Germany.

GRANTS

2017 "Neurocognitive underpinnings of social perception abilities in congenital and acquired cerebellar disorders: Neuropsychological evaluation and treatment." funded by The Italian Ministry of Health to Medea-Mondino IRCCS (407.449,50 euro). PI for the Unit of IRCCS Mondino Foundation.

2017 "Emerging 'moral' technologies and the ethical-legal challenges of new subjectivities" P.I. Dr. Silvia Salardi - University of Milano-Bicocca. European Commission, Education, Audiovisual and Culture Executive Agency, Jean Monnet Activities 2017 Call EAC/A03/2016 (21.962 euro). Co-applicant.

2016 "Aesthetics in the Brain: an interdisciplinary investigation on the functional and neural mechanisms mediating aesthetic experience"- PRIN 2016 (2015_WXAXJF) funded by

The Ministry of Education, Universities and Research (Italy) (212.995 euro). Principal investigator for the University of Milano-Bicocca and National coordinator.

2015 University of Milano-Bicocca, competitive funds "Fondo Ateneo quota competitiva" (25.000 euro). Principal investigator.

2012 "Neuropsychological bases of social and emotion perception" - FIRB 2012 (RBFR12F0BD_003) funded by The Ministry of Education, Universities and Research (Italy) (865.800 euro). Principal investigator for the University of Milano-Bicocca.

2012 "Investigating congenital prosopagnosia using tDCS"- Bando Vigoni 2011, Ateneo-Italo Tedesco 2011 - DAAD (German Academic Mobility Organization), 01/2012-12/2013. Principal investigator for the University of Milano-Bicocca.

2008 "A life-span perspective on cognitive impairment in low-vision: hints for possible rehabilitation strategies". Joint research projects within the Executive programme of cooperation in the field of science and technology between Italy and United States of America for the years 2008-2010 (Mobility expenses covered). Co-applicant.

2009 "Sensory deprivation as a model to understand brain functional development and plasticity: a multidisciplinary study in humans" - PRIN 2009 (2009RC9X8T) funded by The Ministry of Education, Universities and Research (Italy). (Coordinator: prof. T Vecchi). Co-applicant.

2003 Award, Institute for Advanced Study (IUSS) 2003-2006 Pavia (approx. 6.000 euros)

EDITORIAL ACTIVITY

Referee for the following organizations:

- National Science Foundation USA
- FCT Foundation for Science and Technology, Portugal
- Economic and Social Research Council – ESRC- UK
- Austrian Science Fund
- Netherlands Organisation for Scientific Research (NWO, the Dutch Research Council)
- Research Foundation Flanders (Belgio)
- European Conference on Visual Perception
- Ministero dell'Istruzione, dell'Università e della Ricerca (MIUR)
- Associazione Italiana di Psicologia
- 6th International Conference on Transcranial Brain Stimulation (2016)

Referee for the following International scientific journals (> 45, alphabetic order):

1. Acta Pyschologica;
2. Behavioral and Brain Functions;
3. Behavioral Brain Research;
4. Behavior Research Methods;
5. Biological Psychology;
6. Brain and Cognition;
7. Brain Stimulation;
8. Brain Topography;
9. Canadian Journal of Experimental Psychology;
10. Cerebral Cortex;
11. Cognitive and Behavioral Neurology;
12. Cognitive Processing;

13. Cognitive Science;
14. Cortex;
15. Experimental Brain Research;
16. European Journal of Neuroscience;
17. Frontiers in Psychology;
18. Functional Neurology;
19. Human Brain Mapping;
20. I-perception;
21. Journal of Cognitive Enhancement;
22. Journal of Cognitive Neuroscience;
23. Journal of Neuropsychology;
24. Journal of Neuroscience;
25. Journal of Neural Transmission;
26. Journal of Visualized Experiments;
27. Laterality: Asymmetries of Body, Brain and Cognition;
28. Learning and Individual Differences;
29. Neuroimage;
30. Neuropsychologia;
31. Neuropsychology;
32. Neuropsychology Review;
33. Neuropsychological Rehabilitation;
34. Neuroscience;
35. Neuroscience Letters;
36. Perception;
37. PlosOne;
38. Psychology and Neuroscience ;
39. Psychology of Aesthetics, Creativity, and the Arts;
40. Psychomusicology: Music, Mind, and Brain;
41. Psychonomic Bulletin and Review;
42. Quarterly Journal of Experimental Psychology;
43. Rivista Internazionale di Filosofia e Psicologia;
44. Scientific Reports;
45. Social Cognitive and Affective Neuroscience;
46. Studia Psychologica;
47. Symmetry.

International Societies Membership:

International Neuropsychological Symposium (selective admission), European Society of Cognitive Psychology, Italian Association of Psychology, Organization of Human Brain Mapping.

ACADEMIC TEACHING

Department of Psychology, University of Milano-Bicocca (*Neuropsychology area*)

2017-2018-2019 Cognitive Neuroscience (master course)
2017-2018-2019 Psychobiology of behavioural disorders
2015-2017 Evaluative methods and techniques in neuropsychology
2014-2015 Psychobiology of behavioural disorders
2012-2016 Evaluative methods and techniques in neuropsychology
2010-2011 Psychobiology of behavioural disorders
2009-2010 Evaluation and rehabilitation in neuropsychology
2008-2009 Behavioural and physiological methods for neuropsychological diagnosis and rehabilitation

Department of Psychology, University of Pavia (Experimental Psychology area):

2006-2008 Psychodiagnosis of cognitive abilities (master course)
2005-2008 Psychology of Individual differences

PUBLICATIONS

BOOKS

1. **Cattaneo Z &** Vecchi, T. (2011). *Blind vision. The neuroscience of visual impairment.* The MIT Press, Cambridge, Massachusetts, US.

2. **Cattaneo Z** & Vecchi, T. (2006). *Psicologia delle differenze sessuali*. Carocci: Roma.

ARTICLES IN PEER-REVIEWED JOURNALS and BOOK CHAPTERS (ordered for research topic):

Neural basis of symmetry perception and neuroaesthetics

3. Ferrari C, Schiavi S, & **Cattaneo Z**. (2018). TMS over the superior temporal sulcus affects expressivity evaluation of portraits. *Cognitive, Affective, and Behavioral Neuroscience*.
4. **Cattaneo Z**, Bona S, Silvanto J. (2017). Not all visual symmetry is equal: partially distinct neural bases for vertical and horizontal symmetry. *Neuropsychologia*,104, 126-132.
5. Nadal M, Schiavi S, **Cattaneo Z**. (2017). Hemispheric asymmetry of liking for representational and abstract paintings. *Psychonomic Bulletin & Review.*
6. Actis-Grosso R, Lega C, Zani A, Daneyko O, **Cattaneo Z, &** Zavagno D (2017). Can music be figurative? Exploring the possibility of crossmodal similarities between music and visual arts. *Psihologija*, 50(3), 285-306.
7. 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 & Affective Neuroscience, 12(5):707-717.*
8. **Cattaneo Z** (2017). The neural basis of mirror symmetry detection: a review. *Journal of Cognitive Psychology, 29(3), 259-268.*
9. **Cattaneo Z**, Schiavi S, Silvanto J, Nadal M. (2017). A TMS study on the contribution of visual area V5 to the perception of implied motion in art and its appreciation. *Cognitive Neuroscience, 8, 59-68.*
10. Ferrari C, Lega C, Tamietto M, Nadal M, & **Cattaneo Z** (2015). I find you more attractive…after (prefrontal cortex) stimulation. *Neuropsychologia, 72, 87-93.*
11. **Cattaneo Z**, Lega C, Ferrari C, Vecchi T, Cela-Conde CJ, 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*.
12. Bona S, **Cattaneo Z**, Silvanto J. (2015). The causal role of the occipital face area (OFA) and lateral occipital (LO) cortex in symmetry perception. *Journal of Neuroscience, 35(2), 731-738.*
13. **Cattaneo Z.**, Lega, C., Gardelli C, Merabet, LB, Cela-Conde C, Nadal M. (2014). The role of prefrontal and parietal cortices in aesthetic appreciation of representational and abstract art: a TMS study. *Neuroimage*, 99, 443-450.
14. Bona S, Herbert A, Toneatto C, Silvanto J, & **Cattaneo Z** (2014). The causal role of the lateral occipital complex in visual mirror symmetry detection and grouping: an fMRI-guided TMS study. *Cortex, 51:46-55.*
15. **Cattaneo Z**, Lega C, Flexas A, Nadal M, Munar E, Cela-Conde CJ. (2014). The world can look better: enhancing beauty experience with brain stimulation. *Social Cognitive and Affective Neuroscience. 9(11), 1713-21*.

16. **Cattaneo Z**, Mattavelli, G., Papagno, C., Herbert, A.M., & Silvanto, J. (2011). The role of the human extrastriate visual cortex in mirror symmetry discrimination: A TMS adaptation study. *Brain & Cognition, 77(1), 120-127.*

**For studies on symmetry detection in the blind see section "Sensory deprivation"

Effects of sensory deprivation on perceptual and cognitive abilities

17. Rinaldi L, Vecchi T, Merabet LB, **Cattaneo Z** (2018). The spatial representation of number, time, and serial order following sensory deprivation: a systematic review. *Neuroscience & Biobehavioral Reviews, 90, 371-380.*
18. **Cattaneo Z**, Rinaldi L, Geraci C, Cecchetto C, & Papagno C. (2017). Spatial biases in deaf, blind and deafblind individuals as revealed by a haptic line bisection task. *Quarterly Journal of Experimental Psychology.* https://doi.org/10.1177/1747021817741288
19. **Cattaneo Z**, Lega C, Rinaldi L, Fantino M, Ferrari C, Merabet LB, & 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.
20. Bauer CM, **Cattaneo Z, &** Merabet LB (2018). Early Blindness is Associated with Increased Volume of the Uncinate Fasciculus. *European Journal of Neuroscience.* 47(5):427-432.
21. Rinaldi L, Vecchi T, Fantino M, Merabet LB, & **Cattaneo Z.** (2017). The ego-moving metaphor of time relies on visual experience: no representation of time along the sagittal space in the blind. *Journal of Experimental Psychology: General.* 147(3):444-450.
22. Ferrari C, Vecchi T, Merabet LB, & **Cattaneo Z.** (2017). Blindness and social trust: the effect of early visual deprivation on judgments of trustworthiness. *Consciousness & Cognition, 55, 156-164.*
23. Gamond L, Vecchi T, Ferrari C, Merabet LB, & **Cattaneo Z** (2017). Emotion processing in early blind and sighted individuals. *Neuropsychology, 31(5):516-524.*
24. **Cattaneo Z,** Cecchetto C, & Papagno C (2016). Deaf individuals show a leftward bias in numerical bisection. *Perception, 45(1-2):156-64.*
25. Rinaldi L, Vecchi T, Fantino M, Merabet LB, **Cattaneo Z** (2015). The effect of hand movements on numerical bisection judgments in early blind and sighted individuals. *Cortex, 71, 76-84.*
26. Bauer C, Yazzolino L, Hirsch G, **Cattaneo Z**, Vecchi T, Merabet L (2015). Neural correlates associated with superior tactile symmetry perception in the early blind. *Cortex, 63, 104-117.*
27. **Cattaneo Z** & Merabet, L. (2015). Brain plasticity and development. In Lueck, A.H., & Dutton, G.N. (Eds.). *Impairment of vision due to disorders of the visual brain in childhood: A practical approach.* New York: AFB Press.
28. **Cattaneo Z**, Bona S, Monegato M, Pece A, Vecchi T, Herbert AM, Merabet L (2014). Visual symmetry perception in early onset monocular blindness. *Visual Cognition*, 22(7), 963-974.
29. **Cattaneo Z,** Bona S, Bauer C, Silvanto J, Herbert A, Vecchi T, Merabet L. (2014) Symmetry detection in visual impairment: behavioural evidence and neural correlates. *Symmetry*, 6, 427-443.
30. **Cattaneo Z**, Lega, C., Cecchetto, C., & Papagno, C. (2014). Auditory deprivation affects biases of visuospatial attention as measured by line bisection. *Experimental Brain Research*, 232(9), 2767-2773.
31. **Cattaneo Z**, Vecchi, T., Monegato, M., Pece, A., Merabet, L.B., & Carbon, C.C. (2013). Strabismic amblyopia affects relational but not featural and Gestalt processing of faces. *Vision Research, 80, 19-30.*
32. **Cattaneo Z,** Vecchi T, Fantino M, Herbert A, Merabet LB (2013). The effect of vertical and horizontal symmetry on memory for tactile patterns in late blind individuals. *Attention, Perception & Psychophysics*, *75*, 375-382.
33. Renzi, C., **Cattaneo Z,** Vecchi, T., & Cornoldi, C. (2013). Imagery in the blind. In S. Lacey, R. Lawson (Eds). *Multisensory imagery: theory and applications.* New York: Springer.
34. **Cattaneo Z**, Fantino M, Tinti C, Pascual-Leone A, Silvanto J, & Vecchi T (2011). Spatial biases in peripersonal space in sighted and blind individuals revealed by a haptic line bisection paradigm. *Journal of Experimental Psychology: Human Perception & Performance, 37(4):1110-21.*
35. **Cattaneo Z**, Fantino M, Silvanto J, Tinti C, Vecchi T (2011). Blind individuals show pseudoneglect in bisecting numerical intervals. *Attention, Perception & Psychophysics*, 73(4), 1021-8.

36. **Cattaneo Z**, Fantino M, Tinti C, Silvanto J, Pascual-Leone A, & Vecchi T (2010). Symmetry perception in the blind. *Acta Psychologica*, 134(3):398-402.

37. **Cattaneo Z**, Fantino M, Tinti C, Silvanto J, Vecchi T (2010). Crossmodal interaction between the mental number line and peripersonal haptic space representation in sighted and blind individuals. *Attention, Perception & Psychophysics*, 72 (4), 885-890.

38. **Cattaneo Z**, & Vecchi, T. (2008). Supramodality effects in visual and haptic spatial processes. *Journal of Experimental Psychology: Learning, Memory ad Cognition*, 34 (3), 631-642.

39. **Cattaneo Z**, Vecchi, T., Cornoldi, C., Mammarella, I., Bonino, D., Ricciardi, E., & Pietrini, P., (2008). Imagery and spatial processes in visual impairments. *Neuroscience and Biobehavioral Reviews*, 32, 1346–1360.

40. **Cattaneo Z**, Bhatt, E., Merabet, L.B., Pece, A., & Vecchi, T. (2008). The influence of reduced visual acuity on age-related decline in spatial working memory: an investigation. *Aging, Neuropsychology and Cognition*, 15, 687–702.

41. **Cattaneo Z**, Merabet, L.B., Bhatt, E., & Vecchi, T. (2008). Effects of complete monocular deprivation on visuo-spatial memory. *Brain Research Bulletin*, 77, 112-116.

42. **Cattaneo Z**, Vecchi, T., Monegato, M., Pece, A., & Cornoldi, C. (2007). Effects of late visual impairment on mental representations activated by visual and tactile stimuli. *Brain Research*, 1148, 170-176.

43. Monegato, M., **Cattaneo Z**, Pece, A., & Vecchi, T., (2007). Comparing the effects of congenital and late visual impairments on visuospatial mental abilities. *Journal of Visual Impairment and Blindness*, 101, 278-295.

44. Vecchi, T., **Cattaneo Z**, Monegato, M., Pece, A., Cornoldi, C., & Pietrini P. (2006). Why Cyclops could not compete with Ulysses: monocular vision and mental images. *Neuroreport*, 17, 723-726.

Neural basis of face processing and social evaluation of faces

45. Bona S, Silvanto J, **Cattaneo Z**. (2018).TMS over right OFA affects individuation of faces but not of exemplars of objects. *Neuropsychologia*, 117:364-370.

46. 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.

47. 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, 282-289.*

48. 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.

49. Gamond, L., **& Cattaneo Z** (2016). The dorsomedial prefrontal cortex plays a causal role in mediating in-group advantage in emotion recognition: a TMS study. *Neuropsychologia, 93, 312-317.*

50. **Cattaneo Z**, Daini R, Malaspina M, Manai F, Lillo M, Fermi V, Schiavi S, Suchan B, Comincini S. (2016). Congenital prosopagnosia is associated with a genetic variation in the oxytocin receptor (OXTR) gene: an exploratory study. *Neuroscience, 339, 162-173.*

51. Bona S, **Cattaneo Z,** Silvanto J. (2016). Investigating the causal role of rightOFA in holistic detection of Mooney faces and objects: an fMRI-guided TMS study. *Brain Stimulation*, 9(4):594-600.

52. 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):626-34.

53. Ferrari C, Lega C, Vernice M, Tamietto M, Mende-Siedlecki P, Vecchi T, Todorov A, **Cattaneo Z.** (2016). The dorsomedial prefrontal cortex plays a causal role in integrating social impressions from faces and verbal descriptions. *Cerebral Cortex, 26(1):156-65.*

54. Renzi, C., Ferrari, C., Schiavi, S., Pisoni, A., Papagno, C., Vecchi, T., Antal, A., **Cattaneo Z** (2015). The role of the occipital face area in holistic processing involved in face detection and discrimination: a tDCS study. *Neuropsychology*, 29(3), 409-416.

55. **Cattaneo Z**, Schiavi S, Lega C, Renzi C, Tagliaferri M, Boehringer J, Carbon CC, & Vecchi T (2014). Biases in spatial bisection induced by viewing male and female faces. *Experimental Psychology*, 61(5), 368-377.

56. **Cattaneo Z**, Lega C, Boehringer J, Gallucci M Girelli L, Carbon CC (2014). Happiness takes you right: the effect of emotional stimuli on line bisection. *Cognition and Emotion, 28(2), 325-44.*

57. **Cattaneo Z**, Renzi C, Bona C, Merabet LB, Carbon CC, & Vecchi, T. (2014). Hemispheric asymmetry in discriminating faces differing for featural or configural (second-order relations) aspects. *Psychonomic Bulletin and Review, 21(2):363-9.*

58. Renzi, S., Schiavi, S., Carbon, C.C., Vecchi, T., Silvanto, J., & **Cattaneo Z** (2013). Processing of featural and configural aspects of faces is lateralized in dorsolateral prefrontal cortex: a TMS study. *Neuroimage,* 74, 45-51.

59. **Cattaneo Z**, Mattavelli G, Platania E, Papagno C (2011). The role of the prefrontal cortex in controlling gender-stereotypical associations: A TMS investigation. *Neuroimage*, 56(3), 1839-46.

60. Mattavelli G, **Cattaneo Z**, Papagno C (2011). Transcranial magnetic stimulation of medial prefrontal cortex modulates face expressions processing in a priming task. *Neuropsychologia,* 49(5), 992-8.

State-dependency and methodological aspects in brain stimulation (research line with prof. Silvanto, Westminster University)

61. Silvanto J, Bona S, Marelli M, & **Cattaneo Z** (2018). On the mechanisms of Transcranial Magnetic Stimulation (TMS): How brain state and baseline performance level determine behavioral effects of TMS. *Frontiers in Psychology*, 9:741.

62. Silvanto J & **Cattaneo Z** (2017). Common framework for "virtual lesion" and state-dependent TMS: the facilitatory/suppressive range model of online TMS effects on behaviour. *Brain & Cognition,119, 32-38.*

63. Silvanto J, Bona S, **Cattaneo Z** (2017). Initial activation state, stimulation intensity and timing of stimulation interact in producing behavioral effects of TMS. *Neuroscience, 363,134-141.*

64. Renzi, C., Vecchi, T, D'Angelo, E, Silvanto, J, & **Cattaneo Z** (2014). Phosphene induction by cerebellar transcranial magnetic stimulation. *Clinical Neurophysiology, 125(10), 2132-2133.*

65. Silvanto, J. & **Cattaneo Z** (2014). State-dependency protocols. Rotenberg, A., Horvath, J.C. & Pascual-Leone, A. (Eds.). *NeuroMethods: Transcranial Magnetic Stimulation*. New York: Springer Publishing Company, pp.153-176.

66. **Cattaneo Z**, Bona S, Silvanto J. (2012). Cross-adaptation combined with TMS reveals a functional overlap between vision and imagery in the early visual cortex. *Neuroimage*, 59(3):3015-20.

67. Renzi C, Vecchi T, Silvanto J, **Cattaneo** Z. (2011). Overlapping representations of numerical magnitude and motion direction in the posterior parietal cortex: A TMS-adaptation study. *Neuroscience Letters,* 490(2):145-9.

68. **Cattaneo Z**, Rota, F., Walsh, V., Vecchi, T., & Silvanto, J. (2009). TMS-adaptation reveals abstract letter selectivity in the left posterior parietal cortex (PPC). *Cerebral Cortex*, 19(10):2321-5.

69. **Cattaneo Z**, Rota, F., Vecchi, T., & Silvanto, J. (2008). Using state-dependency of transcranial magnetic stimulation (TMS) to investigate letter selectivity in the left posterior parietal cortex: a comparison of TMS-priming and TMS-adaptation paradigms. *European Journal of Neuroscience,* 28, 1924–1929.

70. **Cattaneo**, **Z**, & Silvanto, J. (2008). Investigating visual motion perception using the TMS-adaptation paradigm. *Neuroreport,* 19(14), 1423-1427.

71. **Cattaneo**, **Z**, & Silvanto, J. (2008). Time course of the state-dependent effect of transcranial magnetic stimulation motion in the TMS-adaptation paradigm. *Neuroscience Letters*, 443, 82-85.

72. Silvanto, J., **Cattaneo Z**, Battelli, L., Pascual-Leone, A. (2008). Baseline cortical excitability determines whether TMS disrupts or facilitates behaviour. *Journal of Neurophysiology*, 99, 2725-30.

Imagery, space and short-term memory

73. 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.*

74. Rinaldi L, Lega C, **Cattaneo Z**, Girelli L, Bernardi N (2016). Grasping the sound: auditory pitch influences size processing in motor planning. *Journal of Experimental Psychology: Human Perception and Performance, 42(1):11-22.*

75. Lega C, Vecchi T, D'Angelo E, & **Cattaneo Z** (2016). A TMS investigation on the role of the cerebellum in pitch and timbre discrimination. *Cerebellum and Ataxia*, Mar 2;3:6.
76. **Cattaneo Z,** Silvanto, J. (2015). Mental imagery, Visual Cognition. In: James D. Wright (editor-in-chief), *International Encyclopedia of the Social & Behavioral Sciences, 2nd edition, Vol 15.* Oxford: Elsevier. pp. 220–227.
77. Plow EB, **Cattaneo Z**, Carlson TA, Alvarez GA, Pascual-Leone A., & Battelli L (2014). The compensatory dynamic of inter-hemispheric interactions in visuospatial attention revealed using rTMS and fMRI. *Front. Hum. Neurosci*. 8:226.
78. Lega, C, **Cattaneo, Z**, Merabet, LB, Vecchi, T, Cucchi, S (2014). The effect of musical expertise on the representation of space. *Front. Hum. Neurosci*. 8:250.
79. **Cattaneo Z,** Renzi, C., Casali, S., Silvanto, J., Vecchi, T., Papagno, C., D'Angelo, E. (2014). Cerebellar vermis plays a causal role in visual motion discrimination. *Cortex, 58, 272-280.*
80. Blini E, **Cattaneo Z**, Vallar G. (2013). Different effects of numerical magnitude on visual and proprioceptive reference frames. *Front Psychol*., 4:190.
81. Lega C, Cucchi S, Vecchi T., **Cattaneo Z** (2013). L'influenza dell'esperienza musicale sulla rappresentazione dello spazio peripersonale: uno studio di bisezione tattile. *Giornale Italiano di Psicologia (Italian Journal of Psychology), 2,* 409-416.
82. Bona, S., **Cattaneo Z** , Vecchi., T., Soto, D., Silvanto, J. (2013). Metacognition of visual short-term memory: Dissociation between objective and subjective components of VSTM. *Frontiers in Perception Science,* 4:62.
83. **Cattaneo Z**, Lega, C., Vecchi, T., Vallar, G. (2012). Listening to white noise counteracts visual and haptic pseudoneglect. *Perception, 41, 1395-1398.*
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