

Milano, August 2017.

CURRICULUM VITAE

Zaira Cattaneo

CURRENT POSITION

Associate Professor in Psychobiology and Physiological Psychology, Department of Psychology, University of Milano-Bicocca, Milano (since March 2017).

Member of the scientific committee for the Ph.D. program in Neuroscience, Department of Medicine, University of Milano-Bicocca (since 2016).

Member of the Cognitive Neuroscience and TMS laboratory, Brain Connectivity Center, IRCCS Mondino, Pavia, Italy (since 2010).

Member of the Milan Centre for Neuroscience (<http://neuromi.it/>) (since 2014).

PREVIOUS POSITIONS/ROLES

2011-2016 Member of the scientific committee for the Ph.D. program in Experimental Psychology, Linguistic and Cognitive Neurosciences, Department of Psychology, University of Milano-Bicocca.

2008-2017 Assistant Professor in Psychobiology and Physiological Psychology, Department of Psychology, University of Milano-Bicocca, Milano.

2006-2008 Postdoctoral researcher, Department of Psychology, University of Pavia.

2007-2008 Research Fellow, Berenson-Allen Center of Noninvasive Brain Stimulation, Beth Israel Medical Center, Harvard Medical School, Boston (US)

2005 Visiting Research Fellow, Helmholtz Institute, Utrecht University, NL

2004 Visiting Research Fellow, Rochester Institute of Technology, Rochester, US

2002-2005 PhD student, University of Pavia.

EDUCATION /TRAINING

Habilitations

2017 Habilitation as Full Professor in Neuropsychology

2014 Habilitation as Associate Professor in Neuropsychology

Masters

- Philosophy (summa cum laude), Pavia, Italy (2002)
- Psychology (summa cum laude), Pavia, Italy (2009)
- Institute for Advanced Study (IUSS) (3-years program), Pavia, Italy (2007)

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”, *14th 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** (2017). Enhancing cognitive functions by means of Transcranial Magnetic Stimulation. *Workshop on Cognitive Enhancement, ESCOP 2017*, Potsdam, September 3, 2017.
- **Cattaneo Z** (2017). Brain stimulation in Neuroaesthetics. *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*. EVOCO-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 “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). Principal investigator for the University of Milano-Bicocca and National coordinator (212.995 euro).
- 2015 Fondo Ateneo quota competitiva (25.000 euro).
- 2012-2016 "Neuropsychological bases of social and emotion perception" - FIRB 2012 (RBFR12F0BD_003) funded by The Ministry of Education, Universities and Research (Italy). Principal investigator for the University of Milano-Bicocca, total funding: 865.800 euro (Milano-Bicocca Unit: 148.443 euro).
- 2012-2013 “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.
- 2008-2010 “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.
- 2009-2011 “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.
- 2003/2005/2006 Award, Institute for Advanced Study (IUSS), Pavia (approx. 6.000 euros)

EDITORIAL ACTIVITY

Referee for the following organizations:

- 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 Psychologica;
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. Journal of Cognitive Enhancement;
21. Journal of Cognitive Neuroscience;
22. Journal of Neuropsychology;
23. Journal of Neuroscience;
24. Journal of Neural Transmission;
25. Journal of Visualized Experiments;
26. Laterality: Asymmetries of Body, Brain and Cognition;
27. Learning and Individual Differences;
28. Neuroimage;
29. Neuropsychologia;
30. Neuropsychology;
31. Neuropsychology Review;
32. Neuropsychological Rehabilitation;
33. Neuroscience;
34. Neuroscience Letters;
35. Perception;
36. PlosOne;
37. Psychology and Neuroscience ;
38. Psychology of Aesthetics, Creativity, and the Arts;
39. Psychomusicology: Music, Mind, and Brain;
40. Psychonomic Bulletin and Review;
41. Quarterly Journal of Experimental Psychology;
42. Rivista Internazionale di Filosofia e Psicologia;
43. Scientific Reports;
44. Social Cognitive and Affective Neuroscience;
45. Studia Psychologica;
46. Symmetry.

Editor for Symmetry, special issue in “Symmetry-Related Activity in Mid-Level Vision” (June 2017).

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)

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| 2017-2018 | Cognitive Neuroscience (master course) |
| 2017-2018 | 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):

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| 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 (for research topic):

The influence of sensory deprivation on space representation and cognition

3. 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*.
4. 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*.
5. Gamond L, Vecchi T, Ferrari C, Merabet LB, & **Cattaneo Z** (2017). Emotion processing in early blind and sighted individuals. *Neuropsychology*, 31(5):516-524.
6. **Cattaneo Z**, Cecchetto C, & Papagno C (2016). Deaf individuals show a leftward bias in numerical bisection. *Perception*, 45(1-2):156-64.
7. 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.
8. 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.
9. **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.
10. **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.

11. **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.
12. **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.
13. **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.
14. **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.
15. **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.
16. **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.
17. **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.
18. **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.
19. **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.
20. **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.
21. **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.
22. **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.
23. 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.
24. 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.
25. **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.
26. 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.

Symmetry perception and aesthetic experience

27. **Cattaneo Z**, Bona S, Silvanto J. (2017). Not all visual symmetry is equal: partially distinct neural bases for vertical and horizontal symmetry. *Neuropsychologia*.
28. Actis-Grosso R, Zavagno D, Lega C, Zani A, Daneyko O, & **Cattaneo Z** (2017). Can music be figurative? Exploring the possibility of crossmodal similarities between music and visual arts. *Psihologija*.
29. 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.
30. **Cattaneo Z** (2017). The neural basis of mirror symmetry detection: a review. *Journal of Cognitive Psychology*, 29(3), 259-268.

31. **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.
32. Ferrari C, Lega C, Tamietto M, Nadal M, & **Cattaneo Z** (2015). I find you more attractive...after (prefrontal cortex) stimulation. *Neuropsychologia*, 72, 87-93.
33. **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.
34. 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.
35. **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.
36. 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.
37. **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.
38. **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"*

Face processing and social evaluation of faces

39. Ferrari C, Gamond L, Gallucci M, Vecchi T, & **Cattaneo Z** (2017). Failure to show lateralization in the dorsolateral prefrontal cortex in valence categorization of facial expressions: an exploratory study using transcranial magnetic stimulation. *Experimental Psychology*.
40. 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.
41. 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.
42. **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.
43. 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.
44. 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.
45. 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.
46. 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.
47. **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.
48. 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.
49. **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.

50. 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.

Spatial processing, imagery and working memory

51. 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.
52. 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.
53. 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.
54. **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.
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**, 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.
57. Blini E, **Cattaneo Z**, Vallar G. (2013). Different effects of numerical magnitude on visual and proprioceptive reference frames. *Front Psychol.*, 4:190.
58. 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.
59. **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.
60. 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.
61. Ferrari, C., Cavallini, E., Bottiroli, S., Casiraghi, L., Renzi, C., **Cattaneo Z**, & Vecchi, T. (2012). Cerebral stimulation as a tool of intervention for memory decline in aging: state of the art and future perspectives. *Ricerche di Psicologia* 2-3, 257-273.
62. **Cattaneo Z**, Lega, C., Vecchi, T., Vallar, G. (2012). Listening to white noise counteracts visual and haptic pseudoneglect. *Perception*, 41, 1395-1398.
63. **Cattaneo Z**, Fantino M, Mancini F, Mattioli F, & Vallar G. (2012). Listening to numbers affects visual and haptic bisection in healthy individuals and neglect patients. *Neuropsychologia*, 50, 913-925.
64. **Cattaneo Z**, Fantino M, Silvanto J, Vallar G, & Vecchi T (2011). Tapping effects on numerical bisection. *Experimental Brain Research*, 208(1):21-8.
65. 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.
66. **Cattaneo Z**, Pisoni A, Papagno C, Silvanto J (2011). Modulation of visual cortical excitability by working memory: effect of luminance contrast of mental imagery. *Front. Psychology* 2:29.
67. Silvanto J, & **Cattaneo Z**. (2010). Transcranial magnetic stimulation reveals the content of visual short-term memory in the visual cortex. *Neuroimage*, 50(4), 1683-9.
68. **Cattaneo Z**, Silvanto, J., Battelli, L., & Pascual-Leone, A. (2009). The mental number line modulates visual cortical excitability. *Neuroscience Letters*, 462, 253–256.
69. **Cattaneo Z**, Silvanto, J., Pascual-Leone, A., & Battelli, L. (2009). The middle range of the number line orients attention to the left side of visual space. *Cognitive Neuropsychology*, 14, 1-12.
70. **Cattaneo Z**, Silvanto, J., Pascual-Leone, A, & Battelli, L. (2009). The role of the angular gyrus in the modulation of visuospatial attention by the mental number line. *Neuroimage*, 44(2), 563-8.

71. **Cattaneo Z**, Vecchi T, Pascual-Leone A, Silvanto J. (2009). Contrasting early visual cortical activation states causally involved in visual imagery and short-term memory. *European Journal of Neuroscience*, 30(7):1393-400.
72. **Cattaneo, Z**, & Silvanto, J. (2008). Investigating visual motion perception using the TMS-adaptation paradigm. *Neuroreport*, 19(14), 1423-1427.
73. **Cattaneo Z**, Rosen, M., Vecchi, T., & Pelz, J. (2008). Monitoring eye movements to investigate the picture superiority effect in spatial memory. *Perception*, 37, 34-49.
74. **Cattaneo Z**, Postma, A., & Vecchi T. (2007). The picture superiority effect in working memory for spatial and temporal order. *Psychologia*, 50, 102-109.
75. **Cattaneo Z**, Postma, A., & Vecchi T. (2006). Gender Differences in Memory for Object and Word locations: The Role of Stimulus Transformations. *Quarterly Journal of Experimental Psychology*, 59, 904-919.
76. Vecchi, T., & **Cattaneo Z** (2008). La memoria di lavoro nella tradizione europea e nordamericana. In R.S. Feldman, *Essentials of Understanding Psychology*, edizione italiana, McGraw-Hill, Milano.
77. **Cattaneo Z**, Fastame, M.C., Vecchi T., & Cornoldi, C. (2006). Working memory, imagery and visuo-spatial mechanisms. In T. Vecchi & G. Bottini (Eds.), *Imagery and spatial cognition: Methods, models and clinical assessment*, 101-137. John Benjamins Publishers: Amsterdam and Philadelphia, The Netherlands/USA.
78. Cavallini, E., Fastame, M.C., **Cattaneo Z**, Palladino P., & Vecchi T. (2002). Theoretical and practical aspects of working memory. In S. Shohov (Ed.), *Perspectives in cognitive psychology*, pp. 69-91. Nova Science Publishers: New York.
79. **Cattaneo Z**, Cavallini, E., Fastame, M.C., Palladino, P., & Vecchi, T. (2003). Mantenimento e elaborazione in memoria di lavoro: Procedure sperimentali e implicazioni teoriche. In A. Pagnin & M.A. Zanetti (a cura di), *Processi cognitivi: Studi e ricerche. Saggi in onore di Ornella Andreani Dentici*, ETS, Pisa.

State-dependency and methodological aspects in brain stimulation

80. 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.
81. 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.
82. **Cattaneo, Z**, & Silvanto, J. (2008). Time course of the state-dependent effect of transcranial magnetic stimulation in the TMS-adaptation paradigm. *Neuroscience Letters*, 443, 82-85.
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PRESS IMPACT (selection)

Newspapers/magazines interviews:

- **Il Sole 24ORE** 08/07/2014 “Vuoi avere più successo al lavoro? / *Mente aperta per le nuove idee*” (C. di Cristofaro)
- **La Repubblica** 14/01/2014 “Un navigatore per non vedenti Bocelli mette al lavoro il MIT” (A.D'amico) 11
- **Io Donna (Corriere della Sera)** 06/04/2013 “La nostra vera sfida e' restare in Italia, mica scoprire bosoni” (M.Di lucchio) 15
- **Il Venerdì' (La Repubblica)** 29/04/2011 “il maschilismo? un istinto contro cui si batte la corteccia cerebrale” 6
- **Focus.it** 23/03/2011 “Il cervello mette un freno al maschilismo”
http://www.focus.it/comportamento/psicologia/23032011-1120-991-il-cervello-mette-un-freno-al-maschilismo_C12.aspx
- **BostonGlobe** 03/11/2013 “To appreciate beauty, zap your brain”
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- **Newsscientist.com** 31/10/2013 “Zapping your brain enhances your love of classic art”
<http://www.newsscientist.com/article/dn24500-zapping-your-brain-enhances-your-love-of-classic-art.html>
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<http://www.newsscientist.com/article/dn23482-mindscapes-the-woman-who-cant-recognise-her-face.html>
- **Pacific Standard Megazine** 19/11/2013 “Bored by Botticelli? Hook Up the Electrodes”
<http://www.psmag.com/blogs/news-blog/bored-botticelli-try-jolt-brain-art-appreciation-70247/>

Radio interviews:

- **RADIO 24** 26/03/2011 *MOEBIUS (ORA: 20:08) UOMINI E MASCHILISMO. Interview to Z.Cattaneo*
- **Ecoradio** 16/03/2011 *LA CENTESIMA SCIMMIA (ORA: 12:27) Maschilismo, interview to Z. Cattaneo*
- **CBC RADIO ONE** 01/12/2013 *SPARK. Beauty and Brain Stimulation. Interview to Z.Cattaneo*
- **Radio Kiss Kiss** 16/03/2011 *DIRETTA (ORA: 17:48) Gli uomini e il maschilismo. Interview to Z. Cattaneo*
- **RADIO 24** 23/11/2013 *MOEBIUS (ORA: 21:34) L'opera d'arte piace di più dopo la stimolazione elettrica del cervello. Interview to Z. Cattaneo*