

VIOLA MACCHI CASSIA

CURRICULUM VITAE

Date of Birth January 6, 1969, Milano (Italy)
2 children

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ACADEMIC POSITION

- 2013-present. Vice-Director, Department of Psychology, University of Milano-Bicocca, Italy.
- 2005-present. Full professor (Developmental Psychology), Department of Psychology, University of Milano-Bicocca.
- 2006-2009. Director, Master Degree in Clinical and Developmental Psychology and Neuropsychology, University of Milano-Bicocca.
- 2002-2005. Associate professor, University of Milano-Bicocca.
- 2000-2002. Researcher with tenure, University of Milano-Bicocca.

EDUCATION

- 1998. Ph.D. (Psychology), University of Pavia, Italy.
- 1994. M.Ed. Psychology, University of Padova, Italy.

RESEARCH EXPERIENCE

- 2015 Visiting Fellow, Japan Society for the Promotion of Science (JSPS), Chuo University, Tokyo.
- 2010- 2011. Visiting professor, Birbeck College, London, UK.
- 2002 and 2003. Visiting scholar, Institute of Child Development, University of Minnesota, USA.
- 1998-2000. Post-doctoral fellow, Dept. of Developmental Psychology, University of Padova, Italy.

BOARDS

- 2014-present Board of Research Quality of the University of Milano-Bicocca, member.
- 2012-present. Associate Editor, British Journal of Psychology.
- 2005-2012. Associate Editor, Giornale Italiano di Psicologia.
- 2002-2005. Board of Directors, Associazione Italiana di Psicologia (Italian Psychological Association).

AD HOC REVIEWER FOR SCIENTIFICAL JOURNALS, SOCIETIES AND COUNCILS

Journals

Brain Research; British Journal of Psychology; Child Development; Child Development Perspective; Cognition; Cognitive Development; Developmental Psychobiology; Developmental Science; Infant and Child Development; Journal of Cognitive Neuroscience; Journal of Experimental Child Psychology; Journal of Experimental Psychology: HPP; Neuropsychologia;

Perception; Psychological Bulletin; Psychological Review; Psychological Science; Psychonomic Bulletin & Review; Quarterly Journal of Experimental Psychology; Visual Cognition.

Funding Agencies

Italian Ministry of Education, University and Research (MIUR); Biotechnology and Biological Sciences Research Council (BBSRC), European research Council (ERC).

Conference Review

International Society on Infant Studies (ISIS); Society for Research on Child Development (SRCD).

RESEARCH INTERESTS

The interplay between biological constraints and perceptual experience in the development of neurocognitive specialization, with specific reference to the face processing and the spatial-numerical domains.

My studies involve populations of various age groups, from newborns to young and older adults, and utilize behavioral (eye tracking, looking time measures, mental chronometry) and electrophysiological (ERP, fNIRS) methods.

MAJOR COLLABORATIONS

- Chuo University, Tokyo. Prof. Masami Yagamuchi, Department of Psychology.
- CNRS, Paris, France. Dr. Maria Dolores de Hevia, Laboratoire Psychologie de la Perception.
- University of Vienna, Austria. Prof. Tecumseh Fitch.
- Justus-Liebig-Universität, Giessen, Germany. Prof. Gudrun Schwarzer, Department of Psychology
- Brock University, Canada. Prof. Catherine Mondloch, dr. Valentina Proietti, Face Lab.
- University of Toronto, Canada. Prof. Kang Lee.

SCIENTIFIC PRODUCTION

Author of two volumes in Italian, and more than 70 papers, 50 of which in peer-reviewed international journals (impact factor: max: 5,17, min: 1,73), and more than 130 conference presentations.

ISI Web of Knowledge, August 2017: N=53 papers in international peer-reviewed journals in the period 1996-2017; Sum of the times cited=1207 (1079 without self-citations); Average citation per item=22.8; h-index=19.

Google Scholar, August 2017: Citations= 2287; h index=24.

PAPERS IN INTERNATIONALS PEER-REVIEWED JOURNALS

1. Macchi Cassia, V., Bulf, H., Mc Crinck, K., & de Hevia, M.D. (in press). Operational Momentum during ordering operations for size and number in 4-month-old infants. *Journal of Numerical Cognition*.
2. Bulf, H., de Hevia, M.D., Gariboldi, V., & Macchi Cassia, V. (2017). Infants learn better from left to right: a directional bias in infants' sequence learning. *Scientific Reports*, 7, 2437. doi:10.1038/s41598-017-02466-w.
3. de Hevia, M.D., Addabbo, M., Nava, E., Croci, E., Girelli, L., & Macchi Cassia, V. (2017). Infants' detection of increasing numerical order comes before detection of decreasing number. *Cognition*, 158, 177-188. doi: 10.1016/j.cognition.2016.10.022.
4. Natale E., Addabbo M., Marchis I., Bolognini N., Macchi Cassia, V., & Turati C. (2017). Action priming with biomechanically possible and impossible grasps: ERP evidence from 6-month-old infants. *Social Neuroscience*, 12, 560-569. doi: 10.1080/17470919.2016.1197853.
5. Nava E., Rinaldi, L., Bulf, H., & Macchi Cassia, V. (2017). Visual and proprioceptive feedback differently modulate the spatial representation of number and time in children. *Journal of*

Experimental Child Psychology, 161, 161-177.

6. Senna, I., Addabbo, M., Bolognini, N., Longhi, E., Macchi Cassia, V., & Turati, C. (2017). Infants' visual recognition of pincer grip emerges between 9 and 12 months of age. *Infancy*, 22, 389-402. doi: 10.1111/inf.12163.
7. Bulf, H., de Hevia, M.D., & Macchi Cassia, V. (2016). Small on the left, large on the right: Numbers orient visual attention onto space in preverbal infants. *Developmental Science*, 19, 394-401. doi: 10.1111/desc.12315.
8. Kobayashi, M., Macchi Cassia, V., Kanazawa, S., Yamaguchi, M., & Kakigi, R. (2016). Perceptual narrowing towards adult faces is a cross-cultural phenomenon in infancy: A Behavioral and near-infrared spectroscopy study with Japanese infants. *Developmental Science*. doi: 10.1111/desc.12498.
9. Macchi Cassia, V., Mc Crinck, K., de Hevia, M.D., Gariboldi, V., & Bulf, H. (2016). Operational momentum and size ordering in preverbal infants. *Psychological Research*, 80, 360-367. doi: 10.1007/s00426-016-0750-9.
10. Addabbo, M., Longhi, E., Bolognini, N., Senna, I., Tagliabue, P., Macchi Cassia, V., & Turati, C. (2015). Seeing touches early in life. *PLoS ONE*, 10, e0134549. doi:10.1371/journal.pone.0134549.
11. Brenna, V., Turati, C., Montiroso, R., & Macchi Cassia, V. (2015). The interference effect of emotional expressions on facial identity recognition in preschool-age children. *European Journal of Developmental Psychology*, 12, 443-458. doi: 10.1080/17405629.2015.1047339.
12. Macchi Cassia, V., Proietti, V., Gava, L., & Bricolo, E. (2015). Searching for faces of different ages: evidence for an experienced-based own-age detection advantage in adults. *Journal of Experimental Psychology: Human Perception and Performance*, 41, 1037-1048. doi: <http://dx.doi.org/10.1037/xhp0000057>.
13. Geangu, E., Quadrelli, E., Lewis, J., Macchi Cassia, V., & Turati, C. (2015). By the sound of it. An ERP investigation of human action sound processing in 7-month-old infants. *Developmental Cognitive Neuroscience*, 12, 134-144. doi: 10.1016/j.dcn.2015.01.005.
14. Longhi, E., Senna, I., Bolognini, N., Bulf, H., Tagliabue, P., Macchi Cassia, V., Turati, C. (2015). Discrimination of biomechanically possible and impossible hand movements at birth. *Child Development*, 86, 632-641.
15. Proietti, V., Macchi Cassia, V., dell'Amore, F., Conte, S., Bricolo, E. (2015). Visual scanning behavior is related to recognition performance for own- and other-age faces. *Frontiers in Psychology*. 6:1684. doi:10.3389/fpsyg.2015.01684.
16. Proietti, V., Macchi Cassia, V., & Mondloch, C.J. (2015). The own-age face recognition bias is task dependent. *British Journal of Psychology*, 106, 446-467. doi: 10.1111/bjop.12104.
17. Proietti, V., Pavone, S., Ricciardelli, P., Macchi Cassia, V. (2015). The Left Perceptual Bias for adult and infant faces in adults and 5-year-old children: Face age matters. *Laterality: Asymmetries of Body, Brain and Cognition*, 20, 1-21. doi: 10.1080/1357650X.2014.912220.
18. Bulf, H., Macchi Cassia, V., & de Hevia, M.D. (2014). Are numbers, size and brightness equally efficient in orienting visual attention? Evidence from an eye-tracking study. *PLoS ONE*, 9, e99499. doi: 10.1371/journal.pone.0099499.
19. de Hevia, M.D., Girelli, L., Addabbo, M., Macchi Cassia, V. (2014). Human infants' preference for left-to-right oriented increasing numerical sequences, *PLoS ONE*, 9, e96412. doi: 10.1371/journal.pone.0096412.
20. Macchi Cassia, V., Bulf, H., Quadrelli, E., & Proietti, V. (2014). Age-related face processing bias in infancy: Evidence of perceptual narrowing for adult faces. *Developmental Psychobiology*, 56, 238-248. doi: 10.1002/dev.21191.
21. Macchi Cassia, V., Luo, L., Pisacane, A., Li, H., Lee, K. (2014). How race and age experiences shape young children's face processing abilities. *Journal of Experimental Child Psychology*, 120, 87-101. doi: 10.1016/j.jecp.2013.11.016.
22. Natale E., Senna, I., Bolognini, N., Quadrelli, E., Addabbo, M., Macchi Cassia, V., & Turati, C. (2014). Predicting others' intention involves motor resonance: EMG evidence in 6- and 9-month-old infants. *Developmental Cognitive Neuroscience*, 7, 23-29. doi: 10.1016/j.dcn.2013.10.004.

23. Macchi Cassia, V., Proietti, V., Pisacane, A. (2013). Early and later experience with one younger sibling affects face processing abilities of 6-year-old children. *International Journal of Behavioral Development*, 37, 160-165. doi: 10.1177/0165025412469175.
24. Peykarjou, S., Westerlund, A., Macchi Cassia, V., Kuefner, D., & Nelson, C.A. (2013). The neural correlates of processing newborn and adult faces in 3-year-old children. *Developmental Science*, 16, 905-914.
25. Proietti, V., Pisacane, A., Macchi Cassia, V. (2013). Natural experience modulates the processing of older adult faces in young adults and 3-year-old children. *PLoS ONE*, 8, e57499. doi: 10.1371/journal.pone.0057499.
26. Turati, C., Natale, E., Bolognini, N., Senna, I., Picozzi, M., Longhi, E., Macchi Cassia, V. (2013). The early development of human mirror mechanisms: Evidence from 3- and 6-month-olds' electromyographic recordings. *Developmental Science*, 16, 793-800.
27. de Hevia, L., Girelli, L., & Macchi Cassia, V. (2012). Minds without language represent number through space: Origins of the mental number line. *Frontiers in Psychology*, 3, 466. doi: 10.3389/fpsyg.2012.00466.
28. Macchi Cassia, V., Pisacane, A., & Gava, L. (2012). No own-age bias in 3-year-old children: More evidence for the role of early experience in building face-processing biases. *Journal of Experimental Child Psychology*, 113, 372-382.
29. Macchi Cassia, V., de Hevia, M.D., Picozzi, M., & Girelli, L. (2012). Increasing magnitude counts more: Asymmetrical processing of ordinality in 4-month-old infants. *Cognition*, 124, 183-193. doi: 10.1016/j.cognition.2012.05.004.
30. Macchi Cassia, V. (2011). Age biases in face processing: the effects of experience across development. *British Journal of Psychology*. "Person perception 25 years after Bruce and Young (1986)", Special Issue, 102, 816-829.
31. Macchi Cassia, V., Turati, C., Schwarzer, G. (2011). Sensitivity to spacing changes in faces and non-face objects in preschool-aged children and adults. *Journal of Experimental Child Psychology*, 109, 454-467.
32. Picozzi, M., de Hevia M.D., Girelli, L. & Macchi Cassia, V. (2010). Seven-month-old infants detect ordinal numerical relationships within temporal sequences. *Journal of Experimental Child Psychology*, 107, 359-367. doi: 10.1016/j.jecp.2010.05.005.
33. Kuefner, D., Macchi Cassia, V., Vescovo, E., & Picozzi, M. (2010). Natural experience acquired in adulthood enhances holistic face processing: evidence from the other-age effect. *Visual Cognition*, 18, 11-25.
34. Macchi Cassia, V., Kuefner, D., Picozzi, M., Vescovo, E. (2009). Early experience predicts later plasticity for face processing: Evidence for the reactivation of dormant effects. *Psychological Science*, 20, 853-859.
35. Macchi Cassia, V., Picozzi, M., Kuefner, D., Casati, M. (2009). Why mix-ups don't happen in the nursery. Evidence for an experience-based interpretation of the other-age effect. *The Quarterly Journal of Experimental Psychology*, 62, 1099-1107.
36. Macchi Cassia, V., Picozzi, M., Kuefner, D., Bricolo, E., & Turati, C. (2009). Holistic processing for faces and cars in preschool-aged children and adults: evidence from the composite effect. *Developmental Science*, 12, 236-248.
37. Picozzi, M., Macchi Cassia, V., Turati, C., & Vescovo, E. (2009). The effect of inversion on 3- to 5-year-old children recognition of face and nonface visual objects. *Journal of Experimental Child Psychology*, 102, 487-502. doi: 10.1016/j.jecp.2008.11.001.
38. Kuefner, D., Macchi Cassia, V., Picozzi, M., & Bricolo, E. (2008). Do all kids look alike? Evidence for an other-age effect in adults. *Journal of Experimental Psychology: Human Perception and Performance*, 34, 811-817.
39. Macchi Cassia, V., Valenza, E., Simion, F., & Leo, I. (2008). Congruency as a non-specific perceptual property contributing to newborns' face preference. *Child Development*, 79, 807-820.
40. Macchi Cassia, V., Kuefner, D., Westerlund, A., & Nelson, C.A. (2006). Modulation of face-sensitive event-related potentials by canonical and distorted human faces: the role of vertical

symmetry and up-down featural arrangement. *Journal of Cognitive Neuroscience*, 18, 1343-1358.

41. Macchi Cassia, V., Kuefner, D., Westerlund, A., & Nelson, C.A. (2006). A behavioral and ERP investigation of 3-month-olds' face preferences. *Neuropsychologia*, 44, 2113-2125.
42. Turati, C., Macchi Cassia, V., Simion, F., & Leo, I. (2006). Newborns' face recognition: The role of inner and outer facial features. *Child Development*, 77, 297-311.
43. Macchi Cassia, V., Turati, C., & Simion, F. (2004). Can a non-specific bias toward top-heavy patterns explain newborns' face preference? *Psychological Science*, 15, 379-383.
44. Macchi Cassia, V., & Simion, F. (2002). Individual differences in object-examining duration: Do they reflect the use of different encoding strategies? *Cognitive Development*, 17, 1219-1234.
45. Macchi Cassia, V., Simion, F., Milani, I., & Umiltà, C. (2002). Dominance of global visual properties at birth. *Journal of Experimental Psychology: General*, 4, 398-411. doi: 10.1037//0096-3445.131.3.398.
46. Simion, F., Farroni, T., Macchi Cassia, V., Turati, C., & Dalla Barba, B. (2002). Newborns' local processing in schematic facelike configurations. *British Journal of Developmental Psychology*, 20, 465-478.
47. Simion, F., Valenza, E., Macchi Cassia, V., Turati, C., & Umiltà, C. (2002). Newborns' preference for up-down asymmetrical configurations. *Developmental Science*, 5, 427-434.
48. Macchi Cassia, V., Simion, F., & Umiltà, C. (2001). Face preference at birth: The role of an orienting mechanism. *Developmental Science*, 4, 101-108.
49. Simion, F., Macchi Cassia, V., Turati, C., & Valenza, E. (2001). The origins of face perception: Specific vs non-specific mechanisms. *Infant and Child Development*, 10, 59-65. doi: 10.1002/icd.247.
50. Valenza, E., Simion, F., Macchi Cassia, V., & Umiltà, C. (1996). Face Preference at Birth. *Journal of Experimental Psychology: Human Perception and Performance*, 22, 892-903.

INTERNATIONAL BOOK CHAPTERS

1. Simion, F., Macchi Cassia, V., Turati, C., & Valenza, E. (2003). Non-specific perceptual biases at the origins of face processing. In O. Pascalis & A. Slater (Eds.), *The development of face processing in infancy and early childhood: current perspectives* (pp. 13-25). New York: Nova Science Publishers.

PAPERS IN ITALIAN PEER-REVIEWED JOURNALS

1. Rigoldi, M., Bulf, H., Tagliabue P., Macchi Cassia, V. (2015). I neonati rappresentano le relazioni ordinali tra grandezze non-numeriche. *Giornale Italiano di Psicologia*, 42, 895-902.
2. Rigoldi, M., Proietti, V., Croci, E., Macchi Cassia, V. (2015). L'esperienza con il fratello modula la capacità di riconoscimento dei volti nei bambini di 9 mesi. *Giornale Italiano di Psicologia*, 42, 679-686.
3. Gariboldi, V., Bulf, H., de Hevia, M.D., & Macchi Cassia, V. (2014). Ordinare le grandezze sposta l'attenzione nello spazio rappresentazionale nella prima infanzia: evidenze dall'Operational Momentum. *Giornale Italiano di Psicologia*, 36, 609-617.
4. Addabbo, M., Quirito, S., & Macchi Cassia, V. (2013). La discriminazione delle relazioni numeriche ordinali nei bambini di 4 mesi. *Giornale Italiano di Psicologia*, 40, 657-665.
5. Quadrelli, E., Bulf, H., & Macchi Cassia, V. (2013). La sintonizzazione percettiva verso i volti di adulto nel primo anno di vita. *Giornale Italiano di Psicologia*, 2, 437-445.
6. Tadini, M., Pisacane, A., Macchi Cassia, V. (2011). La sensibilità alle informazioni di second'ordine nei bambini di 4 anni: un confronto tra volti ed altri oggetti. *Giornale Italiano di Psicologia*, 4, 1009-1016.
7. Proietti, V., Pavone, S., Pisacane, A., Gerli, S., Macchi Cassia, V. (2011). L'effetto "altra età" per i volti di adulto anziano. *Giornale Italiano di Psicologia*, 1, 225-232.
8. Picozzi, M., Casati, M., Macchi Cassia, V. (2008). Il ruolo dell'esperienza nel riconoscimento di volti di diverse classi di età: uno studio su adulti "esperti". *Giornale Italiano di Psicologia*, 2, 463-472.

9. Vescovo, E., Picozzi, M., Macchi Cassia, V. (2008). L'effetto inversione è specifico per i volti nei bambini di 3 anni? *Giornale Italiano di Psicologia*, 1, 247-254.
10. Leo, I., Turati, C., Macchi Cassia, V., Simion, F. (2007). Il riconoscimento del volto alla nascita. *Psicologia Clinica dello Sviluppo*, 2, 291-306.
11. Macchi Cassia, V., Simion, F. (2003). Differenze individuali nell'esplorazione visuo-manipolatoria e strategie di elaborazione dell'informazione. *Giornale Italiano di Psicologia*, 4, 825-846.
12. Macchi Cassia, V. (2001). Differenze individuali nelle strategie di elaborazione dell'informazione visiva: l'influenza dell'età e della natura dello stimolo. *Giornale Italiano di Psicologia*, 1, 107-132.
13. Macchi Cassia, V., Farroni, T., Valenza, E., Turati, C., & Simion, F. (2001). L'organizzazione percettiva alla nascita: modalità di elaborazione analitica e globale. *Età Evolutiva*, 68, 34-49.
14. Macchi Cassia, V., & Simion, F. (2001). Interferenza asimmetrica tra l'informazione locale e globale alla nascita. *Giornale Italiano di Psicologia*, 3, 651-656.
15. Turati, C., Macchi Cassia, V., & Simion, F. (1999). Neonato: che hai da guardare? *Psicologia Contemporanea*, 4, 28-35.
16. Macchi Cassia, V. (1998). Metodi per la valutazione delle differenze individuali nei processi attentivi nel primo anno di vita. *Psicologia Clinica dello Sviluppo*, 2, 211-244.
17. Macchi Cassia, V., & Simion, F. (1997). La suzione non nutritiva: uno strumento per lo studio delle competenze neonatali. *Giornale Italiano di Psicologia*, 4, 767-791.

ITALIAN BOOKS AND BOOK CHAPTERS

1. Macchi Cassia, V., Valenza, E., & Simion, F. (2012). *Lo sviluppo della mente umana. Dalle teorie classiche ai nuovi orientamenti*. Bologna: il Mulino.
2. Macchi Cassia, V., Valenza, E., & Simion, F. (2004). *Lo sviluppo cognitivo. Dalle teorie classiche ai nuovi orientamenti* (cap. 1, 4, 5, 7). Bologna: il Mulino.
3. Simion, F., Macchi Cassia, V., & Turati, C. (2002). L'organizzazione della percezione visiva alla nascita. In G. Di Stefano & R. Vianello (Eds.), *Psicologia dello sviluppo e problemi educativi* (pp. 87-105). Firenze: Giunti.
4. Cesa-Bianchi, M., Pravettoni, G., Cesa-Bianchi, G., & Macchi Cassia, V. (1997). Invecchiamento e costanza percettiva. In L. Czerwinsky Domenis (Eds.), *Obiettivo bambino: dalla ricerca pura alla ricerca applicata*. Pubblicazione in onore di Giorgio Tampieri. Milano: Franco Angeli.
5. Simion, F., Macchi Cassia, V., Valenza, E., & Dalla Barba, B. (1995). Strumenti per la valutazione delle competenze neonatali. In P. Ricci Bitti & G. Villone Bettocchi (Eds.), *Indicatori di rischio psicologico e sociale* (pp. 117-141). Napoli: Gnocchi Editore.

INVITED TALKS

- Macchi Cassia, V. (2016). Early age-related facial experience shapes face processing abilities in infancy and beyond. Invited lecture at Chuo University, Tokyo, January 30.
- Macchi Cassia, V. (2014). How experience shapes face processing abilities in infancy and beyond: evidence from the age bias. Invited lecture at the X Workshop of the Person Perception Research Unit, Department for General Psychology, Friedrich-Schiller-University of Jena, Germany, October 9.
- Macchi Cassia, V. (2011). Effects of experience on age biases in face processing across development. Department for Psychology University of Giesen, Germany, May 18.
- Macchi Cassia, V. (2011). Effects of experience on age biases in face processing across development. Invited lecture at the III Workshop of the Person Perception Research Unit, Department for General Psychology, Friedrich-Schiller-University of Jena, Germany, May 19.
- Macchi Cassia, V. (2009). Plasticity of face recognition abilities varies across development: Evidence from the "Other-Age Effect". Department of Psychology, Justus-Liebig-Universität, Giessen, Germany, February 5.

- Macchi Cassia, V. (2007). The “Other-Age” Effect: Another road for investigating the role of experience in the development of face recognition abilities. Department of Psychology, University of Sheffield, UK, August 22.