

## Curriculum Vitae

Date of Birth: [REDACTED]

Nationality: [REDACTED]

Webpage: [REDACTED]

### • **ACADEMIC RECORD**

#### **CURRENT**

2005-Present Associate Professor in Developmental Psychology, University of Padua, Italy

#### **PREVIOUS ACADEMIC POSITIONS**

2000-2004 Wellcome Trust Career Development Research Fellow, Centre for Brain & Cognitive Development, Birkbeck, University of London, UK

1998-2000 Post-doctoral Research Fellow, Developmental Psychology Department, University of Padua

#### **PROFESSIONAL PREPARATION**

1999 PhD Developmental Psychology, Supervisor Prof. F. Simion, University of Padua, Italy

1992-93 Postgraduate Diploma in Psychology, Royal Holloway & Bedford New College, University of London

1992 BS & MS in Philosophy, Supervisor Prof. R. Luccio, Trieste Uni. Italy (110/110 w. honors).

### • **RESEARCH RECORD AND SCIENTIFIC LEADERSHIP CREDENTIALS**

I am a researcher at University of Padua (Italy) with over twenty years of research experience, and will soon become an Associate Professor in Developmental Psychology. Before getting my PhD, I was a Primary School Teacher (1987-1999) and a Head Teacher (1998-1999). This professional teaching and school leading experience helped me in my scientific career by giving me the chance to hone my leadership skills. It was also instrumental in teaching me the importance of motivation, hard work and building a strong, collaborative group in order for myself and my team members to achieve planned goals in a similar manner to my role in motivating teachers and students to achieve high levels of performance.

My research is interdisciplinary, spanning the fields of *typical* and *atypical* development and of *behavioural* and *neuroimaging* studies, from birth (time 0) to adulthood. I have focused on the study of the Social Brain by conducting: **(1)** field studies of the early development of cognitive processes (memory, attention, etc.), **(2)** investigations of the origins of the social brain, **(3)** experiments that formulate research questions both on cognitive and neural levels of analysis.

### • **SCIENTIFIC PRODUCTION**

1999-Present 69 publications, 45 peer-reviewed papers (all in ISI journals) among them 8 with my PhD supervisor (Prof. Francesca Simion, University of Padua), 20 of which I am first author and in 28 I am the last one as a senior.

2002-Present More than 150 reviews for more than 20 different ISI journals (including Nature, Neuron, PNAS etc.), project proposals (ERC, etc.), and official reviewer for ANVUR - National Agency for the Evaluation of the University and Research Systems.

Reviewer for the following international journals: Nature Neuroscience, Scientific Report (Nature), Proceeding of National Academy of Sciences, Cognition, Developmental Science, Neuropsychologia, Neuron, Brain Research, Psychological Bulletin, Child Development, Cortex, European Journal of Neuroscience, Journal of Cognitive Neuroscience, PlosOne, European Journal of Developmental Psychology, Visual Cognition, Emotion Review, Biological Psychology, Early Childhood Research Quarterly, Psychological Science.

2010-2015 Involvement in research projects dedicated to typical and atypical development (COST Action BM1004: Enhancing the Scientific Study of Early Autism (ESSEA); EC Marie Curie Initial Training Networks: Tracking Early Human Development: From Basic Science to Applications; Excellence Project funded by CARIPARO Foundation (Padua).

2012 Organization and lecturer for Four day workshop on the physics of eye-tracking technology within the EC Marie Curie training network.

### **AWARDS**

2002.	2002. Received the 2002 Outstanding Young Scientist Award of the University of Padua (€15,000).
2004-2008	<u>Awarded prestigious Welcome Trust Career Development Research Fellowship</u> (£297,505 GBP), Centre for Brain & Cognitive Development, Birkbeck, UK
2005-2012	Yearly Award Miur called ex60% of the University of Padua for scientific production on <i>Early brain and cognitive Development</i> (PI, overall € 21,857)
2010-2013	COST Action BM1004: Enhancing the Scientific Study of Early Autism (ESSEA) (509,800 euros)
2010-2013	PI for the Italian partner for the Marie Curie PhD Studentships in Developmental Cognitive Neuroscience: Tracking Early Human Development: From Basic Science to Applications Funded by the EC Marie Curie Initial Training Networks: FP7-PEOPLE-2010-ITN PART B Grant Number: 264301
2014	Fondazione della Beneficentia Internazionale. 25.000 €
2014	Fondazione della Beneficentia Internazionale. 19.000 €
2016	Fondazione della Beneficentia Internazionale. 20.000 €
2017	Fondazione della Beneficentia Internazionale. 25.000 €
2018	Fondazione della Beneficentia Internazionale. 25.000 €

### ***SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS***

I am currently supervising 2 PhD students at the University of Padua. I have already successfully supervised 6 PhD students and 3 post doctoral researchers at the same University. Since 2002 I have successfully supervised 50 undergraduate and 40 masters theses at the University of Padua. I have co-supervised 1 international PhD student, with the Centre for Brain & Cognitive Development, Birkbeck, UK within an EC Marie Curie Training Network, and I have co-supervised a further 2 international PhD students within the EC Marie Curie Initial Training Networks: Tracking Early Human Development: From Basic Science to Applications.

#### **• *TEACHING ACTIVITIES***

2002-2004	<i>The Development of Psychological Function</i> , undergraduate course, University of Padua
2004-2010	<i>Brain Development</i> , master course, University of Padua
2007-Present	<i>Developmental Psychology</i> , undergraduate course, University of Padua
2010-Present	<i>Developmental Cognitive Neuroscience</i> , master course, University of Padua

#### **• *INSTITUTIONAL RESPONSIBILITIES AT UNIVERSITY OF PADUA***

I was member of a Committee for the student's software courses (for 7 years), member of the Scientific Committee of the Dep. of Developmental Psychology (for 3 years), member of the Committee Evaluations of scientific products (CIVR) (for 1 year).

Since 2002 I have been a member of the School of Doctorate, responsible for the formation of students of the Erasmus Exchange, and President of the Psychological Science Ethics Committee.

2012- at present, President of the local ethical committee of Area17

2017- at present Member of the Scientific Committee of the DPSS

#### **• *MAJOR COLLABORATIONS***

##### ***International***

- CBCD, Birkbeck College – London, UK <http://www.cbcd.bbk.ac.uk/> and Marie Curie 7P: <http://www.cbcd.bbk.ac.uk/research/marie-curie-trackdev-1>, Topic: the development of the social brain in typical and atypical populations.
- Babakutató CEU, Budapest, Hungary <http://cognitivescience.ceu.hu/cogdev-members>. Topic: Intentionality and action planning.
- Inserm (Dr N. George), France <http://www.inserm.fr/>. Topic: Developmental neural basis of emotion

- Cost Action <http://www.cost-essea.com/> project “Enhancing the Scientific Study of Early Autism (ESSEA), 24 Countries involved.

### **National**

- University of Bologna, Department for Life Quality Studies Academic discipline, Gustavo Marfia, Associate Professor, INF/01 Informatics
- Presidio Riabilitativo Villa Maria, Regione Veneto ULSS8 Berica, Dr Roberto Tombolato
- IRCCS Stella Maris, Pisa, Prof. F. Muratori, & Ospedale Pediatrico Bambin Gesù, Roma, Prof. S. Vicari, Topic: Early predictors of autism.
- Università dell’Aquila, Prof. M. Ferrari. & Istituto di Tecnologie Avanzate Biomediche (Chieti), &

- **POPULAR SCIENTIFIC DISSEMINATION**

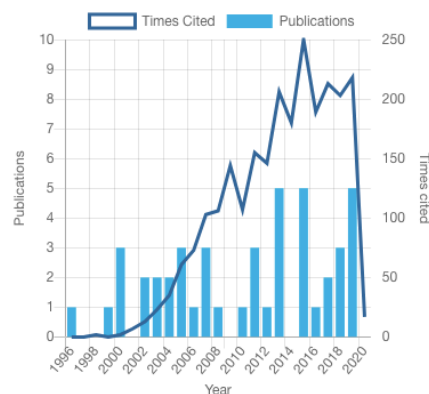
By means of interviews for European TV (BBC, Channel 4 News) and National Radio broadcasts (Rai1 UNO, Rai TRE), for Italian national newspapers (Corriere della Sera, La Stampa, Il Messaggero, ANSA, la Repubblica etc.) including two specials in FOCUS, for international newspapers (i.e. New York Times, The Guardian, Science News, etc.), and for Encyclopedia on Early Childhood Development online: <http://www.child-encyclopedia.com>; Social sites like Facebook and Twitters (ie. <https://www.facebook.com/Nuieve-ricerca-e-apprendimento-nella-multisensorialit%C3%A0-558503254669419/>)

### **Early achievements track-record**

#### **Farroni’s bibliometrics, ISI WEB of Science, 2020**

##### Publication metrics

PUBLICATIONS IN WEB OF SCIENCE	SUM OF TIMES CITED	H-INDEX	AVERAGE CITATIONS PER ITEM	AVERAGE CITATIONS PER YEAR
45	2.453	20 <sup>®</sup>	54.5	106.7



- **FIVE MOST CITED PAPERS (I.F.= IMPACT FACTOR; Q.= QUOTATIONS EXCLUDING SELF CITATIONS)**

- **Farroni, T., Csibra, G., Simion, F., & Johnson, M.H. (2002).** Eye contact detection in humans from birth. *Proc. of the Nat. Academy of Sciences*, 99, 9602-9605. doi/10.1073/pnas.152159999 (**I.F. 9,737, q.721**).
- Johnson, M.H, Griffin R., Csibra, G, Halit, H. **Farroni, T., de Haan, M., Tucker, L., Baron-Cohen, S. & Richards J. (2005).** The emergence of the social brain network: Evidence from typical and atypical development. *Development and Psychopathology*, 17, 599-619. (**I.F. 4,926, q.198**)
- **Farroni, T., Johnson, M.H., Brockbank, M., & Simion, F. (2000).** Infants' use of gaze direction to cue attention: The importance of perceived motion. *Visual Cognition*, 7, 705-718. (**I.F. 1.067, q.152**).
- **Farroni, T., Johnson, M.H., Menon, E., Zulian, L., Faraguna, D., & Csibra, G., (2005).** Newborns' preference for face-relevant stimuli: Effects of contrast polarity. *Proceeding National Academy of Sciences*, 47, 17245-17250. doi/10.1073/pnas.0502205102 (**I.F. 9,737, q. 226**).
- **Farroni, T., Mansfield, E.M. Lai, C. & Johnson, M.H., (2003).** Infants perceiving and acting on the eyes: tests of an evolutionary hypothesis. *Journal Exp Child Psychology*, 85, 199-212. (**I.F. 2.377, q.129**).

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• **SELECTED PEER-REVIEWED INTERNATIONAL PUBLICATIONS**

1. Della Longa, L., Filippetti, M.L. Dragovic, D., **Farroni, T.** (2020). Synchrony of Caresses: Does Affective Touch Help Infants to Detect Body-Related Visual–Tactile Synchrony? *Frontiers in Psychology* 10, 2944.
2. Valori, I., McKenna-Plumley, P.E., Bayramova, R., Zandonella Callegher, C., Altoè, G., **Farroni, T.** (2020). Proprioceptive accuracy in Immersive Virtual Reality: A developmental perspective, *PLoS one* 15 (1), e0222253.
3. Timeo, S., Mento, G., Fronza, E., **Farroni, T.** Exposure to linguistic labels during childhood modulates the neural architecture of race categorical perception. *Sci Rep* 9, 17743 (2019) doi:10.1038/s41598-019-54394-6
4. Orioli, G., Santoni, A., Dragovic, D., **Farroni, T.** (2019). Identifying peripersonal space boundaries in newborns. *Sci Rep*, 9 (1).
5. Timeo, S.; Brigadoi, S.; **Farroni, T.** (2019). Perception of Caucasian and African faces in 5- to 9-month-old Caucasian infants: A functional near-infrared spectroscopy study. DOI:10.1016/j.neuropsychologia.2017.09.011. In *NEUROPSYCHOLOGIA* - ISSN:0028-3932
6. Gliga T, **Farroni T**, Cascio CJ, Social touch: a new vista for developmental cognitive neuroscience?, *Developmental Cognitive Neuroscience* (2018), <https://doi.org/10.1016/j.dcn.2018.05.006>
7. Sacchi, C.; De Carli, P.; Mento, G.; **Farroni, T.** Visentin, S.; Simonelli, A. (2018). Socio-emotional and cognitive development in intrauterine growth restricted (IUGR) and typical development infants: Early interactive patterns and underlying neural correlates. Rationale and methods of the study. DOI:10.3389/fnbeh.2018.00315. pp.315. In *FRONTIERS IN BEHAVIORAL NEUROSCIENCE* - ISSN:1662-5153 vol. 12
8. Orioli, G.; Bremner, A. J; **Farroni, T.** (2018). Multisensory perception of looming and receding objects in human newborns. DOI:10.1016/j.cub.2018.10.004. pp.R1294-R1295. In *CURRENT BIOLOGY* - ISSN:0960-9822 vol. 28 (22)
9. Orioli, G., Filippetti, ML, Gerbino, W., Dragovic, D, & Farroni, T. (2017). Trajectory Discrimination and Peripersonal Space Perception in Newborns. *Infancy*
10. Sue Fletcher-Watson, Fabio Apicella, Bonnie Auyeung, Stepanka Beranova, Frederique Bonnet-Brilhault, Ricardo Canal-Bedia, Tony Charman, Natasha Chericoni, Inês C. Conceição, Kim Davies, **Farroni, T.**, Marie Gomot, Emily Jones, Anett Kaale, Katarzyna Kapica, Rafal Kawa, Anneli Kylliäinen, Kenneth Larsen, Jeremy Lefort-Besnard, Joelle Malvy, Sara Manso de Dios, Silvana Markovska-Simoska, Inbal Millo, Natercia Miranda, Greg Pasco, Ewa Pisula, Marija Raleva, Bernadette Roge, Erica Salomone, Synnve Schjolberg, Przemysław Tomalski, Astrid Vicente, Nurit Yirmiya. (in press). Attitudes of the autism community to early autism research, *Autism* 21 (1), 61-74
11. Timeo, S. Farroni, T., Maass A. (2016). Race and color: Two sides of one story? Development of biases in categorical perception. *Child Development* DOI: 10.1111/cdev.12564
12. ML Filippetti, T Farroni, MH Johnson (2016), Five-Month-old Infants' Discrimination of Visual–Tactile Synchronous Facial Stimulation, *Infant and Child Development* 25 (3), 317-322
13. Tye, C., **Farroni, T.** Volein, A., Mercure, E., Tucker, T., Johnson, M.H., & Bolton, P. (2015). Autism diagnosis differentiates neurophysiological responses to faces in adults with tuberous sclerosis complex. *Journal of Neurodevelopmental Disorders Advancing Interdisciplinary Research*, 7:33. DOI: 10.1186/s11689-015-9129-2. I.F.
14. Marno, H., Farroni, T., Dos Santos, Y.V., Ekramnia, M., Nespor, M., & Mehler, J. Can you see what I am talking about? Human speech triggers referential expectation in four-month-old infants (published online 2015). *Scientific Reports*, 5
15. Papageorgiou, K. A., **Farroni, T.**, Johnson, M. H., Smith T.J. & Ronald A. (published on line 25 July 2015). Individual Differences in Newborn Visual Attention Associate with Temperament and Behavioral Difficulties in Later Childhood, *Scientific Reports*, 5, doi:10.1038/srep11264.
16. Filippetti, M. L., Orioli, G., Johnson, M. H., & Farroni, T. (2015). Body perception in newborns: detection of spatial congruency. *Infancy*, 455-465.
17. Filippetti, M. L., Lloyd-Fox, S., Longo, M. R., Farroni, T., & Johnson, M. H. (2014). Neural mechanisms of body awareness in infants. *Cerebral Cortex*, bhu261, ISSN: 1460-2199
18. Bahrick, L. (2013), Body perception: intersensory origins of self and other perception in newborns [Peer commentary on “Body perception in newborns” by Filippetti, M.L., Johnson, M.H., Lloyd-Fox, S., Dragovic, D., and **Farroni, T.**]. *Current Biology* <http://dx.doi.org/10.1016/j.cub.2013.10.060>

19. Filippetti, M. L., Johnson, M. H., Lloyd-Fox, S., Dragovic, D., Farroni, T (2013). Body Perception in Newborns. *CURRENT BIOLOGY*, vol. 23, p. 2413-2416, ISSN: 0960-9822, doi: 10.1016/j.cub.2013.10.017
20. **Farroni, T.**, Chiarelli, A., Lloyd-Fox, S., Massaccesi, S., Merla, A., Di Gangi, V., Mattarello, T., Faraguna, D. & Johnson, M.H. (2013). Infant cortex responds to other humans from shortly after birth. *Scientific Reports 3 (Nature)*, <http://dx.doi:10.1038/srep02851>
21. Rigato, S., Menon, E., Di Gangi, V., George, N., & **Farroni, T.** (2013). The role of facial expressions in attention-orienting in adults and infants. *International Journal of Behavioral Development*, 37(2) 154–159. doi: 10.1177/0165025412472410
22. Rigato, S. & **Farroni, T.** (2013). The role of gaze in the processing of emotional facial expressions. *Emotion Review*, 5, 41-46, doi:10.1177/1754073912457225
23. Lachat, F., **Farroni, T.** & George, N. (2012). Watch out! Magnetoencephalographic evidence for early modulation of attention orienting by fearful gaze cueing. *Plos One*, 7(11), e50499, doi: 10.1371/journal.pone.0050499
24. Rigato, S., Menon, E., **Farroni, T.**, & Johnson, M.H. (2011). The shared signal hypothesis: effects of emotion-gaze congruency in infant and adult visual preferences. *British Journal of Developmental Psychology*. On line: ISSN: 0261-510X, doi: 10.1111/j.2044-835X.2011.02069.x
25. Rigato, S., Menon, E., Johnson, M.H., & **Farroni, T.** (2011). The interaction between gaze direction and facial expressions in newborns. *European Journal of Developmental Psychology*, 8, 624-636.
26. Rosa Salva O, **Farroni T**, Regolin L, Vallortigara G, & Johnson M.H. (2011). The Evolution of Social Orienting: Evidence from Chicks (*Gallus gallus*) and Human Newborns. *PLoS ONE* 6(4): e18802. doi:10.1371/journal.pone.0018802.
27. **Farroni T.**, & Senju A. (2011). The Developmental and Neural Basis of Face and Gaze Perception. In R. B. Adams, Jr., N. Ambady, K. Nakayama, S. Shimojo (Eds). *The Science of Social Vision*. Oxford University Press, New York.
28. Rigato S., Johnson M.H., Faraguna D., & **Farroni T.** (2011). Direct gaze may modulate face recognition in newborns. *Infant and Child Development*, 20(1), 20–34.
29. Rigato, S., **Farroni, T.**, & Johnson, M.H. (2010). The shared signal hypothesis and neural responses to expressions and gaze in infants and adults. *Social Cognitive and Affective Neuroscience*, 5(1), 88-97.
30. Grossmann, T., & **Farroni, T.** (2009). Decoding social signals in the infant brain: A look at eye gaze perception. In M. de Haan & M. Gunnar (Eds.), *Handbook of Developmental Social Neuroscience*.
31. Johnson, M.H., Grossmann, T., & **Farroni, T.** (2008). The social cognitive neuroscience of infancy: Illuminating early development of social brain functions, *Advances in Child Development and Behavior, Volume 36*, 331-364.
32. Grossmann, T., Johnson, H.M, **Farroni, T.**, & Csibra, G. (2007) Social Perception in the Infant Brain: Gamma Oscillatory Activity in Response to Eye Gaze. *Social Cognitive and Affective Neuroscience*; doi: 10.1093/scan/nsm025
33. **Farroni, T.**, Menon, E. Rigato, S. & Johnson, H.M. (2007). The perception of facial expressions in newborns. *European Journal of Developmental Psychology* 4(1), 2-13.
34. **Farroni, T.**, Massaccesi, S., Menon, E., & Johnson, H.M. (2007). Direct gaze modulates face recognition in young infants. *Cognition* 102(3), 396-404.
35. Johnson, H.M. & **Farroni, T.**, (2007). The Neurodevelopmental Origins of Eye Gaze Perception. In: Ross Flom, Kang Lee Editor, Darwin W. Muir Editor. *Gaze Following*. pp. 1-16, ISBN: 0-8058-4750-2. Lawrence Erlbaum Associates; 1st edition. (US).
36. **Farroni, T.**, Menon, E., & Johnson, M.H. (2006). Factors influencing newborns' preference for faces with eye contact. *Journal of Experimental Child Psychology*, 95, 298-308.
37. Grice, S.J., Halit, H., **Farroni, T.**, Baron-Cohen, S., Bolton, P & Johnson, M.H. (2005). Neural Correlates of Eye-Gaze Detection in Young Children with Autism. *Cortex* 3, 277-281.
38. **Farroni, T.**, Johnson, M. H. & Csibra, G., (2004). Mechanisms of eye gaze perception during infancy. *Journal of Cognitive Neuroscience* 16, 1320-1326.
39. **Farroni, T.**, Pividori, D., Simion, F., Massaccesi, S., & Johnson, M.H. (2004). Eye gaze cueing of attention in newborns. *Infancy*, 5(1), 39-60.

- **SELECTED INVITED PRESENTATIONS**

Della Longa, L., DeEccher, M., Polesello, E. & Farroni, T. (2018). Synchrony of Caresses: Does affective touch modulate implicit body perception in early infancy? *Understanding and promoting change from early to complex skills in typical and atypical development: a cross-population approach*. Bologna

Della Longa, L., DeEccher, M., Polesello, E. & Farroni, T. (2019). In touch with your body: Does affective touch help infants to detect body-related multisensory synchrony? *BCCC19, Budapest CEU Conference on Cognitive Development*. Budapest

Della Longa, L., Carnevali, L. & Farroni, T. (2019). Does affective touch modulate visual preference to faces in early infancy? *Psychophysiological study. CSA, Cognitive Science Arena*. Brixen.

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- Sam Putnam et al., (2018). The Global Temperament Project: Infant Surgency, Negative Affectivity, and Regulatory Capacity in 31 Countries. *International Congress on Infant Studies*
- Filippetti, M.L., Lloyd-Fox, S., Farroni, T., Longo, M., and Johnson, M.H. (September, 2014): The developing body: origins and cortical underpinnings of body perception in infancy. Invited symposium at the BPS Developmental Section Annual Conference, Amsterdam, The Netherlands
- Filippetti, M.L., Lloyd-Fox, S., Farroni, T., Longo, M., and Johnson, M.H. (October, 2013): The developing body: neural correlates of body perception in infancy. Invited speaker at the Donders Discussion, Nijmegen, The Netherlands
- Filippetti, M.L., Lloyd-Fox, S., Farroni, T., Longo, M., and Johnson, M.H. (October, 2013): The developing body: the role of multisensory integration for body perception in infancy. Invited symposium at the Associazione Italiana per la Ricerca e l'Intervento nella Psicopatologia dell'Apprendimento – ONLUS (AIRIPA), Pordenone, Italy
- *Risk-Markers of Autism Spectrum*. Disorder in a Cohort of Newborn Infants. Invited talk at the International Meeting for Autism Research, San Sebastián, Spain 2-4 May, 2013.
- *The social brain*. Invited talk at Bressanone, Bolzano University, Italy, 18-21 January 2012.
- *Perspectives in developmental cognitive neuroscience*. Chairman and Invited speaker Calabria University Italy, 4<sup>th</sup> February, 2010.
- *When does face communication start?* Invited talk at the Laboratoire de Neurosciences Cognitives et Imagerie Cerebrale LENA - CNRS UPR 640 Hopital de la Salpetriere 47, Paris, France 3<sup>rd</sup> July 2006.
- *Development of face perception*. Invited talk “EURESCO conference "Brain Development and Cognition in Human Infants: From Action to Cognition" in Acquafredda, Maratea, Italy, 6th October 2005.
- *When does face communication start?* Oral presentation “Developmental Social Cognitive Neuroscience” “Biennial Meeting for the Society for Research in Child Development (SRCD), Atlanta, Georgia, 7-10 April 2005.
- *The development of the social brain*. Invited talk at the “European Psychology Society, London, UK, 6-7 January 2005.
- *The development of the social brain: Perceiving and acting on eye gaze*. Invited talk at the Conference; “Cognition at Christmas, Budapest, Hungary, 19<sup>th</sup> December 2003.
- *Perceiving and acting on eye gaze*. Invited talk at the Conference; “About faces: the multidisciplinary approach to the science of face perception. Princeton University, USA, 19-21 September 2003.
- *Perceiving and acting on the eyes*. Invited talk at the EURESCO conference "Brain development and cognition in human infants Emergence of Social Communication in Maratea, Italy, 2002.

Padova, 15th February 2020