

CURRICULUM VITAE

PERSONAL DETAILS

NAME, SURNAME AND TITLE **Luca Ronconi, PhD**

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DATE AND PLACE OF BIRTH 30/05/1986, Valdagno (VI), Italy

NATIONALITY Italian

CURRENT WORK ADDRESS Center for Mind/Brain Sciences (CIMEC) –
University of Trento
Corso Bettini 31
38068 Rovereto (TN), Italy

CURRENT POSITIONS

- March 1st, 2016 – present Post-Doctoral Research Fellow, Center for Mind/Brain Sciences (CIMEC), University of Trento, Italy. [Supervisor/P.I.: Prof. David Melcher]

PREVIOUS ACADEMIC POSITIONS

- February 1st, 2017 – April 30th, 2017 Visiting Scientist, Institut für Psychologie, Westfälische Wilhelm-Universität Münster, Münster, Germany. [Supervisor/P.I.: Prof. Niko Busch/Prof. David Melcher]
- March 1st, 2014 – February 29th, 2016 Post-Doctoral Research Fellow, Department of General Psychology, University of Padova, Italy. [Supervisor/P.I.: Prof. Andrea Facoetti]
- 2012 – 2013 Visiting PhD student, Department of Psychology, University of Cambridge, Cambridge, UK. [Supervisor/P.I.: Dr. Dénes Szűcs]

EDUCATION

- 2011 – 2014. PhD in Psychological Sciences (curriculum: Clinical and Experimental Psychobiology), University of Padova, Italy. Dissertation: “*The deployment of visual attention in autism spectrum disorders*”. [Supervisor/P.I.: Prof. Andrea Facoetti]
- 2008 – 2010: Master degree (110 *cum laude*/110) in Neuroscience and Neuropsychological Rehabilitation, University of Padova, Italy.
- 2005 – 2008: Bachelor degree (110 *cum laude*/110) in Cognitive Psychology and Psychobiology, University of Padova, Italy.

- 2000 – 2005: Scientific High School Diploma at “Liceo G.G. Trissino”, Valdagno (VI), Italy.

ACADEMIC TEACHING AND SUPERVISION

- 2016- 2017: 25-hours teaching contract for the class of *Developmental and Aging Brain* (entirely in English), of the Master degree (Laurea Magistrale) in Cognitive Neuroscience and Clinical Neuropsychology, Department of General Psychology, University of Padova. [Holder of the course: Prof. Clara Casco. Total duration: 50 hours]
- 2016-present: Co-supervision of 5 bachelor/master students for their internship and/or thesis at the Center for Mind/Brain Science, University of Trento.
- 2011- 2016: Annual seminars (2 hours each) for the bachelor and master courses in: (i) Developmental Neuropsychology and (ii) Psychobiology, Dept. of Psychology, University of Padova. [Holder of the courses: Prof. Andrea Facoetti]
- 2011- 2016: Co-supervision of 25 bachelor/master students (period: January 2011-present) for their internship and/or thesis at the Department of General Psychology, University of Padova.

AWARDS

- 2016: Post-doctoral fellowship award (national). Fondazione Umberto Veronesi, Section: Neuroscience (declined in favour of the post-doctoral position at CIMEC).
- 2015: Best poster award (international). RAW - Rovereto Attention Workshop 2015.
- 2013: Best Italian article in Psychological and Psychiatric Science by the State of Mind Web Journal for the year 2013 for the publication “*Paternal autistic traits are predictive of infants visual attention*” (Ronconi et al., JADD, 2014).

AD HOC REVIEWER

JOURNALS:

- Biological Psychiatry
- Cerebral Cortex
- Journal of Neuroscience
- Neuroimage
- Scientific Reports
- BMC Neuroscience
- Social Cognitive and Affective Neuroscience
- Biological Psychology

- Journal of Autism and Developmental Disorders
- Consciousness and Cognition
- Frontiers in Psychology
- Journal of Cognitive Education and Psychology

CONFERENCES:

- European Conference on Visual Perception 2017 (ECVP)

INVITED TALKS (INTERNATIONAL ONLY)

- 2017: Institut für Psychologie, Westfälische Wilhelm-Universität Münster, Münster, Germany (19/04/2017).
- 2015: Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany (10/11/2015).
- 2014: Department of Psychology, University of Salzburg, Austria (08/05/2014).
- 2012: Centre for Neuroscience in Education, Department of Psychology, University of Cambridge, UK (23/10/2012).

SUMMER/WINTER SCHOOLS AND WORKSHOP (INTERNATIONAL ONLY)

- 2015: Neuroscience School of Advanced Studies (NSAS) – Autism Spectrum Disorder, 3-10 October 2015, Bressanone, Italy
- 2014: FENS-SfN Summer School on “Neurodevelopmental Psychiatric Disorders”, 22-28 June 2014, Bertinoro, Italy (40 students selected worldwide).
- 2012: EGI International School, Core d-EEG Skills Course, Université Paris Descartes, Paris, France. 18-22 June 2012.

LANGUAGE SKILLS

- Italian (Mother tongue)
- English (Writing: excellent, Reading: excellent, Speaking: excellent)

RESEARCH AND TECHNICAL SKILLS

- **Expertize with the following neurophysiological, neurostimulation and eye-tracking techniques:**
 1. Electroencephalography (EEG), various systems: EGI Geodesic (128-64 channels),

- Neuroscan (64 channels), BrainVision (64 channels). Level: excellent.
2. Magnetoencephalography (MEG): Elekta Neuromag 306 channels. Level: very good.
 3. StarStim (Neuroelectronics): combined transcranial electrical stimulation (tES: tACS, tDCS, tRNS)/EEG system. Level: excellent.
 4. Transcranial magnetic stimulation (TMS - Rapid2, Magstim Ltd.) + neuronavigation with Brainsight software (Rogue Research Inc.). Level: excellent
 5. Infrared eye-tracking equipment (systems: Tobii or Applied Science Laboratory). Level: very good
- **Technical/computer skills:**
 1. Apple Mac OS, Microsoft Windows. Level: excellent
 2. Microsoft Office. Level: excellent
 3. Statistical computing: Jasp, R, Statistica, SPSS. Level: excellent
 4. EEGLAB: Level: excellent
 5. Matlab. Level: excellent
 6. CoSMo MVPA: Level: excellent
 7. Fieldtrip: Level: excellent
 8. Brainstorm: Level: excellent
 9. E-Prime. Level: excellent
 10. NetStation. Level: excellent
 11. Brain Vision. Level: very good
 12. Presentation. Level: very good
 13. Psychtoolbox. Level: excellent
 14. Adobe Photoshop and Illustrator. Level: very good

PAST INTERNSHIPS AND CLINICAL EXPERIENCE

- 2011: Clinical internship at the Clinical Neuropsychology Unit, Pediatric Division, University Hospital of Padova, Italy.
- 2009–2010: Undergraduate internship at the Developmental Neuropsychology Unit of Research Hospital ‘E. Medea’, Bosisio Parini (LC), Italy.
- 2009–2010: Volunteer frequentation of the Neuropsychology Unit, “Villa Beretta” Clinic, Valduce Hospital, Costamasnaga (LC), Italy.
- 2007–2008: Undergraduate internship at the Department of General Psychology, University of Padova.

REFEREES

- Prof. David Melcher, Center for Mind/Brain Sciences (CIMeC), University of Trento, Italy (david.melcher@unitn.it)

- Prof. Andrea Facoetti, Department of General Psychology, University of Padova, Italy (andreafoetti@unipd.it)
- Dr. Denés Szűcs, Department of Psychology, University of Cambridge, Cambridge, United Kingdom (ds377@cam.ac.uk)
- Prof. Niko Busch, Institut für Psychologie, Westfälische Wilhelm Universität Münster, Münster, Germany (niko.busch@wwu.de)

PUBLICATIONS

PEER-REVIEWED JOURNAL PUBLICATIONS (INTERNATIONAL, *=CORRESPONDING/CO-CORRESPONDING AUTHOR)

- **Ronconi L***, Gori S, Federici A, Devita M, Carna M, Sali ME, Molteni M, Casartelli L, Facoetti A (2018). Weak surround suppression of the attentional focus characterizes visual selection in the ventral stream in autism. *Neuroimage: Clinical* <https://doi.org/10.1016/j.nicl.2018.02.014>
- **Ronconi L***, Devita M, Molteni M, Gori S, Facoetti A (2018) When large becomes slow: zooming-out visual attention is associated to orienting deficits in autism. *Journal of Autism and Developmental Disorders* <https://doi.org/10.1007/s10803-018-3506-0>
- **Ronconi L***, Oosterhof N, Bonmassar C & Melcher D (2017) Multiple oscillatory rhythms determine the temporal organization of perception. *Proceedings of the National Academy of Sciences*, 114(51), 13435-13440.
- Casartelli L, Federici A, Biffi E, Molteni M, **Ronconi L** (2017) Are we “motorically” wired to others? High-level motor computations and their role in autism. *Neuroscientist*, in press. <https://doi.org/10.1177/1073858417750466>
- **Ronconi L***, Melcher D (2017) The role of oscillatory phase in determining the temporal organization of perception: evidence from sensory entrainment. *Journal of Neuroscience*, 37(44), 10636–10644.
- **Ronconi L***, Bellacosa Marotti R (2017). Awareness in the crowd: Beta power and alpha phase of prestimulus oscillations predict object discrimination in visual crowding. *Consciousness and Cognition* 54, 36-46. [Invited article for the Special Issue: *Time course of event-related potentials associated with conscious experience*]
- Franceschini S, Trevisan P, **Ronconi L**, Bertoni S, Colmar S, Double K, Facoetti A, Gori S (2017). Action video games improve reading abilities and visual-to-auditory attentional shifting in English-speaking children with dyslexia. *Scientific Reports*, 7, 5863.
- Casartelli L, Federici A, Cesareo A, Biffi E, Valtorta G, Molteni M, **Ronconi L***, Borgatti R (2017). The role of the cerebellum in high stages of motor planning hierarchy. *Journal of Neurophysiology*, 117(4), 1474-1482.
- **Ronconi L***, Casartelli L, Carna S, Arrigoni F, Borgatti R (2017). When one is enough: impaired multisensory integration in cerebellar agenesis. *Cerebral Cortex* 27 (3), 2041-2051.
- Treccani B, **Ronconi L**, Umiltà CA (2017). Role of stimulus and response feature overlap in between-task logical recoding. *Psychological Research* 81, 157-167.
- **Ronconi L***, Molteni M, Casartelli L (2016). Building blocks of others’ understanding: A

perspective shift in investigating social-communicative deficit in autism. *Frontiers in Human Neuroscience*, 10: 44.

- **Ronconi L***, Bertoni S, Bellacosa Marotti R (2016). The neural origins of visual crowding as revealed by event-related potentials and oscillatory dynamics. *Cortex* 79, 87-98.
- **Ronconi L***, Pincham HL, Cristoforetti G, Facoetti A, Szűcs D (2016). Shaping neural oscillations with auditory rhythmic stimulation improves the temporal allocation of attention. *NeuroReport* 27, 487-494.
- **Ronconi L**, Pincham HL, Szűcs D, Facoetti A (2016). Inducing attention not to blink: auditory entrainment improves conscious visual processing. *Psychological Research* 80(5), 774–784.
- Casartelli L, Molteni M, **Ronconi L*** (2016). So close yet so far: motor anomalies impacting on social functioning in autism spectrum disorder. *Neuroscience and Biobehavioural Reviews*, 63, 98-105.
- **Ronconi L**, Franchin L, Valenza E, Gori S, Facoetti A (2016). The ‘zoom-lens’ of attention in eight-month-old infants. *Developmental Science*, 19(1), 145–154.
- Gori S, Seitz A, **Ronconi L**, Franceschini S, Facoetti A (2016). Multiple Causal Links Between Magnocellular-Dorsal Pathway Deficit and Developmental Dyslexia. *Cerebral Cortex*, 26, 4356–4369.
- Franceschini S, Bertoni S, **Ronconi L**, Molteni M, Gori S, Facoetti A (2015). 'Shall We Play a Game?': Improving Reading Through Action Video Games in Developmental Dyslexia. *Current Developmental Disorders Reports*, 2(4), 318-329.
- Gori S, Mascheretti S, Giora E, **Ronconi L**, Ruffino M, Quadrelli E, Facoetti A, Marino C (2015). The DCDC2 intron 2 deletion impairs illusory motion perception unveiling the selective role of magnocellular-dorsal stream in reading (dis)ability. *Cerebral Cortex*, 25(6), 1685-95.
- **Ronconi L**, Facoetti A, Bulf H, Franchin L, Bettoni R, Valenza, E (2014). Paternal autistic traits are predictive of infants visual attention. *Journal of Autism and Developmental Disorders*, 44(7), 1556-1564.
- **Ronconi L**, Basso D, Gori S, Facoetti A (2014). TMS on Right Frontal Eye Fields Induces an Inflexible Focus of Attention. *Cerebral Cortex*, 24, 396-402.
- **Ronconi L**, Gori S, Giora E, Ruffino M, Molteni M, Facoetti A (2013). Deeper attentional masking by lateral objects in children with autism. *Brain and Cognition*, 83, 213-218.
- **Ronconi L**, Gori S, Ruffino M, Molteni M, Facoetti A, (2013). Zoom-out attentional impairment in children with autism spectrum disorder. *Cortex*, 49, 1025-1033.

- **Ronconi L**, Gori S, Ruffino M, Franceschini S, Urbani B, Molteni M, Facoetti A (2012). Decreased Coherent Motion Discrimination in Autism Spectrum Disorder: The Role of Attentional Zoom-out Deficit. *Plos One*, 7, e49019.

CONFERENCE PROCEEDINGS (FIRST-AUTHORED ONLY)

- Ronconi L, Oosterhof NN, Bonmassar C, Melcher D. Decoding integration and segregation over different time scales from the ongoing neural oscillations. European Conference on Visual Perception (ECVP), August 27-31, 2017. Berlin, Germany (poster presentation).
- Ronconi L, Melcher D. Alpha oscillation phase determines the timing of perception: evidence from sensory entrainment. Vision Sciences Society Annual Meeting, May 16-20, 2017. St. Pete Beach, Florida (poster presentation).
- Ronconi L, Pincham HL, Cristoforetti G, Facoetti A, Szucs D. Shaping pre-stimulus neural oscillations with auditory rhythmic stimulation improves the temporal allocation of attention. Rovereto Attention Workshop. October 5-8, 2015 (poster + talk as poster award winner).
- Ronconi L, Bertoni S, Bellacosa Marotti R. The neural origins of visual crowding as revealed by event-related potentials and high-frequency oscillatory dynamics. European Conference on Visual Perception, ECVP. August 23-27, 2015. Liverpool, UK (poster presentation).
- Ronconi L, Vignali L, Gori S, Mento G, Facoetti A. The neural dynamics of attentional zoom-lens as revealed by dense-array EEG. 9th FENS Forum of Neuroscience. July 5-9, 2014. Milan, Italy (poster presentation).
- Ronconi L, Gori S, Devita M, Molteni M, Facoetti A. The "Mexican hat" of the attentional focus in autism spectrum disorders. 14th Vision Sciences Society Annual Meeting, May 16-20, 2014. St. Pete Beach, Florida (poster presentation).
- Ronconi L, Gori S, Devita M, Molteni M, Facoetti A. Weak Suppression Surrounding the Focus of Attention in Autism: A Possible Explanation of Visual Objects Overload? X International Congress Autism-Europe. Talk session. September 26-28, 2013. Budapest, Hungary (talk session).
- Ronconi L, Facoetti A, Bulf H, Franchin L, Bettoni R, Valenza, E. Paternal autistic traits are predictive of infants visual attention. X International Congress Autism-Europe. Poster session. September 26-28, 2013, Budapest, Hungary (poster presentation).
- Ronconi L, Gori S, Varuzza C, Menghini D, Basso D, Vicari S, Facoetti A (2013) "Zoom-In" Attentional Impairment in Developmental Dyslexia and its Possible Neurobiological Underpinning. 3rd Oxford-Kobe Symposium, Poster Session, April 11-13, 2013, Oxford, UK (poster presentation).

- Ronconi L, Gori S, Giora E, Ruffino M., Facoetti A. Spatio-temporal dynamics of visual processing in autism revealed by Attentional Masking. *Perception 41* Supplement ECVF 2012, page 134. Alghero, Italy (poster presentation).
- Ronconi L, Basso D, Gori S, Facoetti A, (2012). TMS on the FEF area induces a 'narrow' focus of attention. 12th Vision Sciences Society Annual Meeting, May 11-16, 2012. Naples, Florida (poster presentation).
- Ronconi L, Gori S, Ruffino M, Facoetti A. Is poor coherent motion discrimination the consequence of magnocellular impairment in autism spectrum disorders? *Perception 40* ECVF 2011 Toulouse. Abstract Supplement, page 168 (poster presentation).
- Ronconi L, Gori S, Ruffino M, Facoetti A, (2011). The attentional focusing mechanism in autism spectrum disorders: evidence of a "zoom-out" impairment. Rovereto Attention Workshop. Poster Session. October 27-29, 2011 (poster presentation).
- Ronconi L, Ganesini, T, Ruffino M, Gori S, Facoetti A (2010). To induce autistic-like focused perception in typically developing adults interfering with the right hemisphere global processing. 'A Future For Autism' IX International Congress Autism-Europe. Poster session. October 8-10, 2010. Catania, Italy (poster presentation).

PEER-REVIEWED PUBLICATIONS (NATIONAL)

- Franceschini S, Gori S, Ruffino M, **Ronconi L**, Viola S, Noce F, ... & Facoetti, A. (2015). Attenzione visiva e dislessia evolutiva: Evidenze dagli action video games. *Dislessia*, 12(2), 153-174.
- Franceschini S, Gori S, Ruffino M, Pedrolli K, **Ronconi L**, Bertoni S, & Facoetti A (2015). Meccanismi visuo-attenzionali come predittori delle future abilità di lettura. *Dislessia*, 12(3), 273-286.

NATIONAL CONFERENCE PROCEEDINGS (FIRST-AUTHORED ONLY)

- **Ronconi L**, Franchin L, Gori S, Ruffino M. (2012) Deficit nella modulazione del fuoco attentivo come possibile marker precoce dei disturbi dello spettro autistico. Simposio del Congresso Nazionale AIP – Sezioni di Psicologia dello Sviluppo e dell'Educazione. 20-22 Settembre 2012, Chieti.
- **Ronconi L**, Gori S, Ruffino M, Facoetti A. (2010) Il mascheramento attenzionale laterale nei disturbi dello spettro autistico. Comunicazione orale per il Congresso Nazionale AIP Sezione di Psicologia Sperimentale. 2-4 Settembre 2010, Bologna.

BOOK CHAPTER (NATIONAL)

- Facchetti A, Gori S, Franceschini S, **Ronconi L**, Bertoni S, & (2015). L'attenzione visiva spaziale e il suo ruolo nell'apprendimento della lettura. In Maffioletti, S., & Facchin, A. (Eds.). (2016). *La visione nell'apprendimento del bambino. Indicazioni, prassi e trattamenti: Indicazioni, prassi e trattamenti*. Franco Angeli Editore.

Rovereto, 19.02.2018