

Luca Rinaldi

Date and place of birth: June 18, 1986 - Como (Italy)
Family: 2 children
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Current Position

April 2022

Associate Professor (permanent position)
Department of Brain and Behavioral Sciences, University of Pavia (Italy).

Prior research positions

December 2019 – March 2022

Assistant Professor (RTDb; tenure track)
Department of Brain and Behavioral Sciences, University of Pavia (Italy).

January 2017 – December 2019 (4-year grant)

Post-doctoral research fellow
Department of Psychology, University of Milano-Bicocca (Italy).
Main theme of research: “Grounding time through sensorimotor integration”.
Supervisor: Prof. Luisa Girelli, Ph.D.

June 2016 – August 2016

Visiting fellow
Centre for Brain and Cognitive Development of the Birkbeck University, London (UK).
Main theme of research: “Sensorimotor involvement in serial order processing over developmental time”.
Supervisor: Prof. Annette Karmiloff-Smith, Ph.D.

January 2016 – April 2016

Post-doctoral research fellow
Department of Brain and Behavioral Sciences, University of Pavia (Italy).
Main theme of research: “The role of the human cerebellum in memory processing”.
Supervisor: Prof. Tomaso Vecchi, Ph.D.

Education

January 2012 – January 2016

Ph.D. in *Experimental Psychology, Linguistics and Cognitive Neurosciences* at the University of Milano-Bicocca (Italy).
Thesis entitled: “Sensorimotor experience biases human attention through space and time”.
Supervisor: Prof. Luisa Girelli, Ph.D.

September 2008 – October 2010

Master's degree in *Developmental Psychology and Neuropsychology* at the University of Milano-Bicocca (Italy).

Thesis entitled: "The role of number-space associations in preschoolers' numerical competence".

Supervisor: Prof. Luisa Girelli, Ph.D.

September 2005 – July 2008

Bachelor's degree in *Psychological Sciences* at the University of Milano-Bicocca (Italy).

Research and clinical experience

July 2018 – August 2018

Visiting research fellow at the Department of Cognitive Science and Artificial Intelligence, Tilburg University, Tilburg (Netherlands).

Supervisor: Prof. Max Louwerse, Ph.D.

January 2013 – September 2013

Visiting research student at the Department of Neurology, University Hospital Zürich, Zürich (Switzerland).

Supervisor: Prof. Peter Brugger, Ph.D.

January 2012 – June 2012

Visiting research student at the Cognitive Neuropsychology Laboratory of the Ben-Gurion University of the Negev, Beer Sheva (Israel).

Supervisor: Prof. Avishai Henik, Ph.D.

February 2011 – July 2011

Visiting research student at the Cognitive Neuropsychology Laboratory of the Ben-Gurion University of the Negev, Beer Sheva (Israel).

Supervisor: Prof. Avishai Henik, Ph.D.

October 2010 – March 2011

Clinical practice at UONPIA (Operative Unit of Child and Adolescent Neuropsychiatry), Sant'Anna Hospital, Olgiate Comasco, Como (Italy).

Supervisor: Grazia Manerchia, M.D.

March 2008 – July 2008

Clinical practice at UONPIA (Operative Unit of Child and Adolescent Neuropsychiatry), Busto Arsizio Hospital, Tradate, Varese (Italy).

Supervisor: Roberta Urbinati, M.D.

Grants

March 2024

ERC Starting Grant (€ 1.500.000).

Structuring spatial knowledge through domain-general, non-spatial learning mechanisms ("OutOfSpace")
European Research Council (European Union).

November 2023

PRIN 2022 (€ 208.770).

The World in Words: Moving beyond a spatiocentric view of the human mind ("WoWo")

Ministero dell'Università e della Ricerca.

Principal Investigator (Co-PI: Marco Marelli)

September 2023

BIAL Grant (€ 59.000).

RE-thinking the role of the spatial memory system in cognitive MAPs (“REMAP”)

BIAL Foundation

Principal Investigator (Co-PI: Marco Marelli)

March 2018

Support fund for ERC Starting Grant by Fondazione Cariplo (€ 1500).

Grant for CV consolidation.

June 2016 – August 2016

Study Visit Grant funded by the Experimental Psychology Society (£ 2.000).

Research project: “A view from the top of the cascade: sensorimotor processing constrains serial order abilities over developmental time”.

Host institution: Birkbeck, University of London. Supervisor: Prof. Annette Karmiloff-Smith.

January 2016 – October 2016

Research Grant funded by the University of Pavia (€ 12.000).

Research project: “The role of the human cerebellum in memory processing”.

Host institution: University of Pavia. Supervisor: Prof. Tomaso Vecchi.

December 2013 – December 2015

Two-years grant (“Fondo Cariplo”) funded by Fondazione Cariplo (€ 4.000).

Research project: “Pitch and grasp the sound! Action planning dances on pitch dimension”.

Host institution: University of Milano-Bicocca. Principal investigator.

January 2012 – January 2016

Four-years Ph.D. scholarship co-funded by Fondazione Cariplo (€ 15.336/year).

Main theme of research: “Sensorimotor experience biases human attention through space and time”.

Supervisor: Prof. Luisa Girelli.

February 2011 – August 2011

Eight-months scholarship (\$ 6.400) from the Ministry of Foreign Affairs (Israel), Cultural and Scientific Affairs Department.

Research project: “The role of reading direction in number-space associations”.

Host institution: Ben-Gurion University of the Negev. Supervisor: Prof. Avishai Henik.

Honours and Awards

September 2017

Best Italian PhD Thesis (€ 500).

Sezione di Psicologia Sperimentale, AIP (Italian Psychological Association).

September 2017

Travel Grant (€ 250).

Sezione di Psicologia Sperimentale, AIP (Italian Psychological Association), Bari (Italy).

May 2016

Expert Evaluator, France National Research Agency, ANR (Agence Nationale de la Recherche).

May 2016

Article "Walking on a mental time line" selected for the journal cover page of *Cortex*, volume 78.

November 2013

The Patrizia Tabossi Price (€ 300) for the best oral presentation.

Title of the presentation: "Pitch and grasp the sound! Action planning dances on pitch dimension."

The Trieste Symposium on Perception and Cognition, Trieste (Italy).

September 2012

Best oral presentation price (€ 500).

Title of the presentation: "Influenza contestuale dei sistemi di letto-scrittura nei processi di attenzione visuo-spaziale."

Sezione di Psicologia Sperimentale, AIP (Italian Psychological Association), Chieti (Italy).

Institutional Responsibilities

- Delegate for the *Erasmus+ Program*

Bachelor Program in Psychological Sciences. University of Pavia (Italy).

From October 2022.

- Member of *The Committee for Open Science and Open Access*

University of Pavia (Italy).

From September 2022.

- Board of the Doctoral Program in *Cognitive Brain Sciences*

University of Pavia (Italy) & IUSS (Italy).

From August 2022.

Academic Teaching

- *Cognition* (Course; Language: English)

Master's Program in Psychology, Neuroscience and Human Sciences. Department of Brain and Behavioral Sciences. University of Pavia (Italy) & School for Advanced Studies (IUSS).

Academic Year: From 2018.

- *General Psychology* (Course; Language: Italian)

Bachelor Program in Psychological Sciences. University of Pavia (Italy).

Academic Year: From 2021.

- *Programming Psychological Experiments* (Course; Language: English)

Doctorate School in Cognitive Brain Sciences. University of Pavia (Italy) & University School for Advanced Studies (IUSS, Italy).

Academic Year: From 2022.

- *Cognitive Psychology* (Course; Language: Italian)

Bachelor Program in Psychological Sciences. University of Pavia (Italy).

Academic Year: From 2019.

- *Cognition, Multisensoriality and Emotion* (Laboratory; Language: Italian)

Master's Program in Experimental Psychology. Department of Brain and Behavioral Sciences. University of Pavia (Italy).

Academic Year: 2017-2018; 2018-2019.

- *Cognitive and Behavioral Measures* (Laboratory; Language: English)

Master's Program in Applied Experimental Psychological Sciences, Department of Psychology.

University of Milano-Bicocca (Italy).

Academic Year: 2017-2018; 2018-2019.

- *Methods in Neurosciences: Motion Capture and 3D Kinematic Analyses* (Laboratory; Language: Italian)

Doctorate School in Psychology, Linguistics and Cognitive Neuroscience.

University of Milano-Bicocca (Italy).

Academic Year: 2017-2018 .

Co-supervisor responsibilities

- 50 Master's thesis students

- 18 Bachelor's thesis students.

Publications

1. Petilli, M., Marelli, M., Mazzoni, G., Marchetti, M., **Rinaldi, L.**, & Gatti, D. (in press). From Vector Spaces to DRM lists: False Memory Generator, a software for automated generation of lists of stimuli inducing false memories. *Behavior Research Methods*.
2. Gatti, D., Günther, F., & **Rinaldi, L.** (2024). A body map beyond perceptual experience. *Journal of Cognition*, 7(1). <https://doi.org/10.5334/joc.347>
3. Abbondanza, M., Amenta, S., **Rinaldi, L.**, & Marelli, M. (2024). Time is-ending: Sublexical information activates the horizontal mental time line in word processing. *Journal of Experimental Psychology: Learning, Memory, and Cognition*. <https://doi.org/10.1037/xlm0001331>
4. Gatti, D., Marelli, M., & **Rinaldi, L.** (2024). Predicting hand movements with distributional semantics: evidence from mouse-tracking. *Cognitive Science*, 48(1), e13372. <https://doi.org/10.1111/cogs.13399>
5. Gatti, D., **Rinaldi, L.**, Mazzoni, G., & Vecchi, T. (2024). Semantic and episodic processes differently predict false memories in the DRM task. *Scientific Reports*. <https://doi.org/10.1038/s41598-023-50687-z>
6. Gatti, D., **Rinaldi, L.**, Vecchi, T., & Ferrari, C. (2023). Understanding cerebellar cognitive and social functions: methodological challenges and new directions for future transcranial magnetic stimulation studies. *Current Opinion in Behavioral Sciences*, 53, 101300. <https://doi.org/10.1016/j.cobeha.2023.101300>
7. Perrone, S., **Rinaldi, L.**, Gatti, D., & Girelli, L. (2023). Temporal perception in closed skills sports: an experimental study on elite swimmers and runners. *Psychology of Sport and Exercise*, 69, 102500. <https://doi.org/10.1016/j.psychsport.2023.102500>
8. Conte, F., **Rinaldi, L.**, Gerosa, T., Mondini, S., Costantini, G., & Girelli, L. (2023). Cognitive Reserve Potential: Capturing Cognitive Resilience Capability in Adolescence. *Assessment*, 10731911231183363. <https://doi.org/10.1177/10731911231183363>
9. Körner, A., Castillo, M., Drijvers, L., Fischer, M.H., Günther, F., Marelli, M., Platonova, O., **Rinaldi, L.**, Shaki, S., Trujillo, J.P., Tsaregorodtseva, O., & Glenberg, A.M. (2023). Embodied Processing at Six Linguistic Granularity Levels: A Consensus Paper. *Journal of Cognition*, 6(1). [10.5334/joc.231](https://doi.org/10.5334/joc.231)
10. Gatti, D., Marelli, M., Vecchi, T. & **Rinaldi, L.** (2023). Spatial representations without spatial computations. *Psychological Science*, 33, 1947-1958. <https://doi.org/10.1177/095679762210948>

11. Gatti, D., Marelli, M., & **Rinaldi, L.** (2023). Out-of-vocabulary but not meaningless: Evidence for semantic-priming effects in pseudoword processing. *Journal of Experimental Psychology: General*, 152(3), 851–863. <https://doi.org/10.1037/xge0001304>
12. Gatti, D., Marelli, M., Mazzoni, G., Vecchi, T. & **Rinaldi, L.** (2023). Hands-on false memories: A combined study with distributional semantics and mouse-tracking. *Psychological Research*, 87, 1129–1142. <https://doi.org/10.1007/s00426-022-01710-x>
13. Gatti, D., Stagnitto, S.M., Basile, C., Mazzoni, G., Vecchi, T., **Rinaldi, L.**, & Lecce, S. (2022). Individual differences in theory of mind correlate with the occurrence of false memory: a study with the DRM task. *The Quarterly Journal of Experimental Psychology*, 76, 2107–2121. <https://doi.org/10.1177/17470218221135178>
14. Gatti, D., **Rinaldi, L.**, Marelli, M., & Vecchi, T. (2022). Cerebellar involvement in distributional semantic learning: insights from a combined TMS-computational approach. *Brain Stimulation*, 15, 999–1001. <https://doi.org/10.1016/j.brs.2022.07.004>
15. Günther, F., & **Rinaldi, L.**, (2022). Language statistics as a window into mental representations. *Scientific Reports*, 12, 8043. <https://doi.org/10.1038/s41598-022-12027-5>
16. Adriano, A., **Rinaldi, L.**, & Girelli, L. (2022). Spatial frequency equalization does not prevent spatial-numerical associations. *Psychonomic Bulletin and Review*, 29, 1492–1502. <https://doi.org/10.3758/s13423-022-02060-w>
17. **Rinaldi, L.**, Parente, L., & Marelli, M. (2022). Toward a unified account of non-symbolic and symbolic representations of number: Insights from a combined psychophysical-computational approach. *Psychonomic Bulletin and Review*, 29, 985–994. <https://doi.org/10.3758/s13423-021-02043-3>
18. Gatti, D., **Rinaldi, L.**, Marelli, M., Mazzoni, G., & Vecchi, T. (2022). Decomposing the semantic processes underpinning veridical and false memories. *Journal of Experimental Psychology: General*, 151, 363–389. <https://doi.org/10.1037/xge0001079>
19. Adriano, A., **Rinaldi, L.**, & Girelli, L. (2022). Non-symbolic numerosity in sets with illusory contours exploits a context-sensitive, but contrast-insensitive, visual boundary formation process. *Attention, Perception, & Psychophysics*, 84, 205–220. <https://doi.org/10.3758/s13414-021-02378-y>
20. Adriano, A., Girelli, L., & **Rinaldi, L.** (2022). Number is not just an illusion: Discrete numerosity is encoded independently from perceived size. *Psychonomic Bulletin and Review*, 29, 123–133. <https://doi.org/10.3758/s13423-021-01979-w>
21. Abbondanza, M., **Rinaldi, L.**, Foppolo, F., & Marelli, M. (2021). The mental representation of non-numerical quantifiers: The Spatial-Linguistic Association of Response Codes (SLARC) effect. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 47, 2021–2028. <https://doi.org/10.1037/xlm0001037>
22. Gatti, D., **Rinaldi, L.**, Ferreri, L., & Vecchi, T. (2021). The human cerebellum as a hub of the predictive brain. *Brain Sciences*, 11, 1492. <https://doi.org/10.3390/brainsci11111492>
23. Gatti, D., **Rinaldi, L.**, Cristea, I., & Vecchi, T. (2021). Probing cerebellar involvement in cognition through a meta-analysis of TMS evidence. *Scientific Reports*, 11, 14777. <https://doi.org/10.1038/s41598-021-94051-5>
24. Adriano, A., Girelli, L., & **Rinaldi, L.** (2021). Ratio-effect in visual numerosity comparison is preserved despite spatial frequency equalization. *Vision Research*, 183, 42–52. <https://doi.org/10.1016/j.visres.2021.01.011>

25. Adriano, A., Girelli, L., & **Rinaldi, L.** (2021). Non-symbolic numerosity encoding escapes spatial frequency equalization. *Psychological Research*, 85, 3061-3074. <https://doi.org/10.1007/s00426-020-01458-2>
26. Adriano, A., **Rinaldi, L.**, & Girelli, L. (2021). Visual illusions as a tool to hijack numerical perception: Disentangling non-symbolic number from its continuous visual properties. *Journal of Experimental Psychology: Human Perception and Performance*, 47, 423-441. <https://doi.org/10.1037/xhp0000844>
27. **Rinaldi, L.**, & Marelli, M. (2020). Maps and space are entangled with language experience. *Trends in Cognitive Sciences*, 24, 835-855. <https://doi.org/10.1016/j.tics.2020.07.009>
28. Conte, F., Costantini, G., **Rinaldi, L.**, Gerosa, T., & Girelli, L. (2020). Intellect is not that expensive: differential contribution of cultural and socioeconomic factors to crystallized intelligence in a sample of Italian adolescents. *Intelligence*, 101466. <https://doi.org/10.1016/j.intell.2020.101466>
29. **Rinaldi, L.**, Ciricugno, A., Merabet, L., Vecchi, T., & Cattaneo, Z. (2020). The Effect of Blindness on Spatial Asymmetries. *Brain Sciences*, 10, 662. <https://doi.org/10.3390/brainsci10100662>
30. **Rinaldi, L.**, Di Luca, S., Toneatto, C., & Girelli, L. (2020). The effects of hemispheric dominance, literacy acquisition and handedness on the development of visuospatial attention: a study in preschoolers and second graders. *Journal of Experimental Child Psychology*, 195, 104830. <https://doi.org/10.1016/j.jecp.2020.104830>
31. Petilli, M.A., **Rinaldi, L.**, Trisolini, D., Girelli, L., Vecchio, L.P. & Daini, R. (2020). How difficult is it for adolescents to maintain attention? The differential effects of video games and sports. *The Quarterly Journal of Experimental Psychology*, 73, 968-982. <https://doi.org/10.1177/1747021820908499>
32. Lega, C., Cattaneo, Z., Ancona, N., Vecchi, T., & **Rinaldi, L.** (2020). Instrumental expertise and musical timbre modulate the spatial representation of pitch. *The Quarterly Journal of Experimental Psychology*, 73, 1162-1172. <https://doi.org/10.1177/1747021819897779>
33. **Rinaldi, L.**, & Marelli, M. (2020). The use of number words in natural language obeys Weber's law. *Journal of Experimental Psychology: General*, 149, 215-230. <https://doi.org/10.1037/xge0000715>
34. Günther, F., **Rinaldi, L.**, & Marelli, M. (2019). Vector-based models of semantic memory: A review and clarification of common misconceptions from a cognitive perspective. *Perspectives on Psychological Sciences*, 14, 1006-1033. <https://doi.org/10.1177/1745691619861372>
35. Ciricugno, A., **Rinaldi, L.**, Vecchi, T., Merabet, L., & Cattaneo, Z. (2019). The role of binocular vision in driving pseudoneglect in visual and haptic bisection: evidence from strabismic and monocular blind individuals. *Multisensory Research*, 1, 1-19. <https://doi.org/10.1163/22134808-20191347>
36. Nava, E., **Rinaldi, L.**, Bulf, H., & Macchi Cassia, V. (2018). The developmental progress of the spatial representation of numbers and time towards an adult-like pattern: a study in 6- and 10-year old children. *Cognitive Development*, 48, 52-61. <https://doi.org/10.1016/j.cogdev.2018.08.001>
37. **Rinaldi, L.**, Merabet, L., Vecchi, T., & Cattaneo, Z. (2018). The spatial representation of number, time, and serial order following sensory deprivation: a systematic review. *Neuroscience & Biobehavioral Reviews*, 90, 371-380. <https://doi.org/10.1016/j.neubiorev.2018.04.021>
38. **Rinaldi, L.**, Bertolini, G., Bockisch, C.J., Maravita, A., Girelli, L., & Brugger, P. (2018). More far is more right: Manual and ocular line bisections, but not the Judd illusion, depend on radial space. *Brain and Cognition*, 122, 34-44. <https://doi.org/10.1016/j.bandc.2018.01.009>

39. Cattaneo, Z., Lega, C., **Rinaldi, L.**, Merabet, L., Ferrari, C., & 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, 813-821. <https://doi.org/10.3758/s13414-018-1495-x>
40. Cattaneo, Z., **Rinaldi, L.**, Geraci, C., Cecchetto, C., & Papagno, C. (2018). Spatial biases in deaf, blind and deafblind individuals as revealed by a haptic line bisection task. *The Quarterly Journal of Experimental Psychology*, 71, 2325-2333. <https://doi.org/10.1177/1747021817741288>
41. **Rinaldi, L.**, Maggioni, E., Olivero, N., Maravita, A., & Girelli, L. (2018). Smelling the space around us: Odor pleasantness shifts visuospatial attention in humans. *Emotion*, 18, 971-979. <http://dx.doi.org/10.1037/emo0000335>
42. Tobia, V., **Rinaldi, L.**, & Marzocchi, G.M. (2018). Time processing impairments in preschoolers at risk of developing difficulties in mathematics. *Developmental Science*, 21, e12526. [doi/10.1111/desc.12526/full](https://doi.org/10.1111/desc.12526/full)
43. **Rinaldi, L.**, Vecchi, T., Fantino, M., Merabet, L., & 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, 444-450. <http://dx.doi.org/10.1037/xge0000373>
44. 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. <http://dx.doi.org/10.1016/j.jecp.2017.04.012>
45. **Rinaldi, L.**, & Karmiloff-Smith, A. (2017). Intelligence as a Developing Function: A Neuroconstructivist Approach. *Journal of Intelligence*, 5, 1-26. [10.3390/jintelligence5020018](https://doi.org/10.3390/jintelligence5020018)
46. **Rinaldi, L.**, & Girelli, L. (2017). A bodily sense of magnitude. Commentary: From ‘sense of number’ to ‘sense of magnitude’ – The role of continuous magnitudes in numerical cognition. *Frontiers in Psychology*, 8, 652. <https://doi.org/10.3389/fpsyg.2017.00652>
47. **Rinaldi, L.**, Locati, F., Parolin, L., & Girelli, L. (2017). Distancing the present self from the past and future: Psychological distance in anxiety and depression. *The Quarterly Journal of Experimental Psychology*, 70, 1106-113. <http://dx.doi.org/10.1080/17470218.2016.1271443>
48. **Rinaldi, L.** (2016). Rescuing my time from science. *Science*, 354, 1666. [doi/10.1126/science.354.6319.1666](https://doi.org/10.1126/science.354.6319.1666)
49. **Rinaldi, L.**, & Girelli, L. (2016). A Place for Zero in the Brain. *Trends in Cognitive Sciences*, 8, 563-564. <http://dx.doi.org/10.1016/j.tics.2016.06.006>
50. Girelli, L., Perrone, G., Croccolo, F., Roman, E.H., Bricolo, E., Mancin, M., & **Rinaldi, L.** (2016). Manual actions cover symbolic distances at different speed. *Acta Psychologica*, 169, 56-60. [doi:10.1016/j.actpsy.2016.05.002](https://doi.org/10.1016/j.actpsy.2016.05.002)
51. **Rinaldi, L.**, Di Luca, S., Henik, A., & Girelli, L. (2016). A helping hand putting in order: Visuomotor routines organize numerical and non-numerical sequences in space. *Cognition*, 152, 40-52. <http://dx.doi.org/10.1016/j.cognition.2016.03.003>
52. **Rinaldi, L.**, Locati, F., Bernardi, N.F., Parolin, L., & Girelli, L. (2016)*. Walking on a mental time line: Temporal processing affects step movements along the sagittal space. *Cortex*, 78, 170-173. <http://dx.doi.org/10.1016/j.cortex.2016.02.013>

* Pubblicazione selezionata per la copertina della rivista.

53. **Rinaldi, L.,** Gallucci, M., & Girelli, L. (2016). Spatial-numerical consistency impacts on preschoolers' numerical representation: children can count on both peripersonal and personal space. *Cognitive Development*, 37, 9-17. <http://dx.doi.org/10.1016/j.cogdev.2015.10.006>
54. **Rinaldi, L.,** Lega, C., Cattaneo, Z., Girelli, L. & Bernardi, N.F. (2016). Grasping the sound: Auditory pitch influences size processing in motor planning. *Journal of Experimental Psychology: Human Perception and Performance*, 42, 11-22. <http://dx.doi.org/10.1037/xhp0000120>
55. **Rinaldi, L.,** Vecchi, T., Fantino, M., Merabet, L., & Cattaneo, Z. (2015). The effect of hand movements on numerical bisection judgments in early blind and sighted individuals. *Cortex*, 71, 76-84. <http://dx.doi.org/10.1016/j.cortex.2015.06.005>
56. **Rinaldi, L.,** Brugger, P., Bockisch, C. J., Bertolini, G., & Girelli, L. (2015). Keeping an eye on serial order: ocular movements bind space and time. *Cognition*, 142, 291-298. <http://dx.doi.org/10.1016/j.cognition.2015.05.022>
57. **Rinaldi, L.,** Di Luca, S., Henik, A. & Girelli, L. (2014). Reading direction shifts visuo-spatial attention: an Interactive Account of attentional biases. *Acta Psychologica*, 151, 98-105. <http://dx.doi.org/10.1016/j.actpsy.2014.05.018>
58. **Rinaldi, L., & Girelli, L.** (2012). Il ruolo dell'Associazione Numeri-Spazio nella competenza numerica prescolare [The role of Number-Space Association in preschoolers' numerical competence]. *Giornale Italiano di Psicologia*, 4, 931-940. <http://dx.doi.org/10.1421/73149>
59. Previtali, P., **Rinaldi, L., & Girelli, L.** (2011). Nature or Nurture in finger counting: a review on the determinants of the direction of number-finger mapping. *Frontiers in Cognition*, doi: 10.3389/fpsyg.2011.00363. <http://dx.doi.org/10.3389/fpsyg.2011.00363>

Invited lectures/presentations

1. **Rinaldi, L.** (2021). Spatial representations recovered from language. *8th International Conference on Spatial Cognition: "Cognition and Action in a Plurality of Spaces"*. September 2021, Rome (online, Italy).
2. **Rinaldi, L.** (2020). Finding structure in natural language. *XXVI Congresso Annuale della Sezione di Psicologia Sperimentale (AIP)*. September 2020, Lecce (online, Italy).
3. **Rinaldi, L.** (2019). Bringing order out of chaos: when language structures time. *The Flow of Time: An Interdisciplinary Workshop*. Venezia (Italia).
4. **Rinaldi, L.** (2019). Dissociating sensorimotor experience from language statistics: insights from the representation of number and time. *CIMeC*. Rovereto (Italia).
5. **Rinaldi, L., & Girelli, L.** (2018). Organizzare i numeri nello spazio aiuta: evidenze in età prescolare. September 2018, *AIRIPA*, Arezzo (Italia).
6. **Rinaldi, L.** (2018). Dissociating sensorimotor experience from language statistics: insights from the representation of number and time. *SISSA University, Invited seminar by Prof. Davide Crepaldi*. June 2018, Trieste (Italy).
7. **Rinaldi, L.** (2018). Sensorimotor foundations of the spatial representation of time. *48th Annual Meeting of the Jean Piaget Society*. June 2018, Amsterdam (Netherlands).

8. **Rinaldi, L.** (2017). Il tempo scorre: Il contributo del sistema sensorimotorio alla rappresentazione spaziale del tempo. *Congresso Annuale della Sezione di Psicologia Sperimentale (AIP)*. September 2017, Bari (Italy).
9. **Rinaldi, L.** (2016). Sensorimotor experience binds space and time in the human mind. *Festival della Luce*. May 2017, Como (Italy).
10. **Rinaldi, L.** (2016). The role of sensorimotor experience in the representation of time. *University of Sussex, Invited seminar by Dr. Marianna Obrist*. August 2016, Brighton (UK).
11. **Rinaldi, L.** (2016). The development of temporal concepts: a sensorimotor perspective. *Birkbeck, University of London, Centre for Brain and Cognitive Development*. August 2016, London (UK).
12. **Rinaldi, L.** (2016). Sensorimotor experience constrains serial and temporal order processing. *Learning, grouping, chunking, restructuring symposium*. July 2016, Nice (French).
13. **Rinaldi, L.** (2016). Sensorimotor experience biases human attention through space and time. *Birkbeck, University of London, Invited seminar by Prof. Matthew Longo*. July 2016, London (UK).
14. **Rinaldi, L.** (2015). Situating numbers on an experienced space. *6th International Conference on Spatial Cognition: "Space and Situated Cognition"*. September 2015, Rome (Italy).
15. **Rinaldi, L.** (2015). When crossmodal correspondences reach the motor system. *Improvers' Course on Music Cognition*. June 2015, Pavia (Italy).
16. **Rinaldi, L.** (2014). Experience biases our attention through space and time. *Université Du Luxembourg, Invited seminar by Prof. Christine Schiltz*. November 2014, Luxembourg.
17. **Rinaldi, L., Lega, C., Cattaneo, Z., Girelli, L. & Bernardi, N.F.** (2014). Prendi il suono! Influenza dell'altezza del suono nel controllo motorio. *Congresso Annuale della Sezione di Psicologia Sperimentale (AIP)*, September 2014, Pavia (Italy).
18. **Rinaldi, L., & Girelli, L.** (2013). Organizzare i numeri nello spazio aiuta: evidenze in età prescolare. *Congresso Annuale della Sezione di Psicologia dello Sviluppo (AIP)*. September 2013, Milan (Italy).

Oral presentations at conferences/meetings

1. Gatti, D., Marelli, M., Vecchi, T. & **Rinaldi, L.** (2022). Spatial representations without spatial computations. *XXX Congress of the Italian Psychology Association*. September, 2022, Padova (Italy).
2. Abbondanza, M., Amenta, S., **Rinaldi, L.**, & Marelli, M. (2022). Word processing and spatial representations: how sub-lexical chunks can activate the horizontal Mental Time Line. *European Workshop on Cognitive Neuropsychology*. January 2022, Brixen (Italy).
3. Abbondanza, M., **Rinaldi, L.**, Foppolo, F., & Marelli, M. (2021). The small goes left, the large goes right: spatial representation of linguistic quantifiers. *Psycholinguistics in Flanders*. May 2021, online (Belgium).
4. Adriano, A., **Rinaldi, L.**, & Girelli, L. (2021). A biological foundation for spatial-numerical associations? The origin is not in the brain's asymmetric preferences for spatial frequency. *XXVII Congresso AIP Sezione Sperimentale*. September 2021, Lecce (Italy).

5. Gatti, D., **Rinaldi, L.**, Marelli, M., Mazzoni, G., & Vecchi, T. (2021). Hands-on false memories: A combined study with distributional semantics and mouse-tracking. *XXVII Congresso AIP Sezione Sperimentale*. September 2021, Lecce (Italy).
6. Gatti, D., Marelli, M., Mazzoni, G., **Rinaldi, L.**, & Vecchi, T. (2021). Il coinvolgimento del cervelletto nella memoria semantica: evidenze di neurostimolazione. *SIPF 2021*. September 2021, Palermo, Italy.
7. Gatti, D., **Rinaldi, L.**, Marelli, M., Mazzoni, G., & Vecchi, T. (2020). Decomposing the semantic processes underpinning veridical and false memories. *XXVI Congresso Annuale della Sezione di Psicologia Sperimentale (AIP)*. September 2020, Lecce (online, Italy).
8. **Rinaldi L.**, Ciufoletti R., Conti S., & Girelli L. (2019). Pensare con i piedi: Il ruolo del controllo fine e grosso-motorio nello sviluppo cognitivo. *Congresso Annuale della Sezione di Psicologia Sperimentale (AIP)*. September 2019, Milan (Italy).
9. Parente L., Marelli M., & **Rinaldi L.** (2019). I modelli semantici distribuzionali predicono il pensiero numerico simbolico e nonsimbolico. *Congresso Annuale della Sezione di Psicologia Sperimentale (AIP)*. September 2019, Milan (Italy).
10. Adriano A., **Rinaldi L.**, & Girelli L. (2019). Il Senso dei Numeri: tutta un'illusione? *Congresso Annuale della Sezione di Psicologia Sperimentale (AIP)*. September 2019, Milan (Italy).
11. Rizzi E., **Rinaldi L.**, & Girelli L. (2019). Eventi personali e non-personali attivano differenti sistemi di riferimento spaziali della Mental Time Line. *Congresso Annuale della Sezione di Psicologia Sperimentale (AIP)*. September 2019, Milan (Italy).
12. Conte F., Costantini G., Gerosa T., **Rinaldi L.**, & Girelli L. (2019). L'intelligenza non costa: apporto differenziale di fattori culturali e socio-economici al funzionamento cognitivo in adolescenza. *Congresso Annuale della Sezione di Psicologia Sperimentale (AIP)*. September 2019, Milan (Italy).
13. Girelli L., Ciufoletti R., Conti S., & **Rinaldi L.** (2019). Moving hands, running feet: the motor side of cognitive control in childhood. *Healthy and Active Children*. September 2019, Verona (Italy).
14. **Rinaldi, L.**, & Marelli, M. (2018). The semantics of numerical symbols in natural language obeys Weber's law. *Joint Congress of the SEPEX, SEPNECA and AIP experimental*. July, 2018, Madrid (Spain).
15. **Rinaldi, L.**, (2017). Sensorimotor experience biases human attention through space and time. *Congresso Annuale della Sezione di Psicologia Sperimentale (AIP)*. September 2017, Bari (Italy).
16. Tobia, V., **Rinaldi, L.**, & Marzocchi, G.M. (2016). Time processing impairments in preschoolers at risk of developing difficulties in mathematics. *EDA: 5th All European Dyslexia Conference*. September 2016, Modena (Italy).
17. **Rinaldi, L.**, & Girelli, L. (2015). Mind the Space in Time: The Role of Sensorimotor Experience in Temporal Order Processing. *The Cognitive and Neural Basis for the Development of Numerical Understanding*. April 2015, Beer Sheva and Haifa (Israel).
18. **Rinaldi, L.**, & Girelli, L. (2014). Back to the future or forward to the past? Mind the space in time. *Embodiment of abstract concepts: what's special about space*. June 2014, Milan (Italy).

19. **Rinaldi, L.**, Lega, C., Cattaneo, Z., Girelli, L., & Bernardi, N.F. (2014). Pitch and grasp the sound! Action planning dances on pitch dimension. *Cognitive Science Arena for Beginners II*. February 2014, Brixen (Italy).
20. **Rinaldi, L.**, Bertolini, G., Bockisch, C.J., Maravita, A., Girelli, L., & Brugger, P. (2014). Asymmetries in near and far space: commonalities and differences between manual and ocular bisection. *Thirty-Two European Workshop on Cognitive Neuropsychology*. January 2014, Brixen (Italy).
21. **Rinaldi, L.**, Lega, C., Cattaneo, Z., Girelli, L., & Bernardi, N.F. (2013). Pitch and grasp the sound! Action planning dances on pitch dimension. *The Trieste Symposium on Perception and Cognition*. November 2013, Trieste (Italy).
22. **Rinaldi, L.**, Di Luca, S., Henik, A., & Girelli, L. (2013). An Interactive Account of visuo-spatial asymmetries: visuo-motor exploration is situated between biological and cultural determinants. *Embodied & Situated Language Processing Conference*. July 2013, Potsdam (Germany).
23. **Rinaldi, L.**, Di Luca, S., Henik, A., & Girelli, L. (2013). A helping hand putting in order? Language dependent constraints underlying order-fingers mapping. *Cognitive Science Arena for Beginners*. February 2013, Brixen (Italy).
24. Girelli, L., & **Rinaldi, L.** (2013). L'associazione numeri-spazio nello sviluppo della competenza numerica. October 2012, AIRIPA, Bari (Italia).
25. **Rinaldi, L.**, Di Luca, S., Henik, A., & Girelli, L. (2012). Influenza contestuale dei sistemi di letto-scrittura nei processi di attenzione visuo-spaziale. *Congresso Nazionale dell'Associazione Italiana di Psicologia (AIP)*, Sezione di Psicologia Sperimentale. September 2012, Chieti (Italy).

Poster presentations at conferences/meetings

1. Conte, F., Costantini, G., **Rinaldi, L.**, Gerosa, T., Mondini, S., Girelli, L. Cognitive Reserve Potential questionnaire. Uno strumento per misurare il potenziale di riserva cognitiva in adolescenza. *X National Conference of the Italian Neuropsychology Association (SINP)*. November 2021, Modena (Italy).
2. Gatti, D., **Rinaldi, L.**, Marelli, M., & Vecchi, T. (2021). Processing of semantic associations in the cerebellum: a TMS study. *XI SRCA Congress*. June 2021, Virtual meeting.
3. Gatti, D., **Rinaldi, L.**, Marelli, M., & Vecchi, T. (2021). Processing of semantic associations in the cerebellum: a TMS study. *28th Annual Meeting of the Cognitive Neuroscience Society – CNS 2020*. April 2021, virtual meeting.
4. Abbondanza, M., Foppolo, F., **Rinaldi, L.**, & Marelli, M. (2020). Spatial representation of linguistic quantifiers. *Experiments in Linguistic Meaning*. September 2020, Virtual meeting.
5. Adriano, A., **Rinaldi, L.**, & Girelli, L. (2019). Grouping objects with Illusory Contour lines reduces the perceived numerosity. A study with comparison and estimation tasks. *The Trieste Symposium on Perception and Cognition*. November 2019, Trieste (Italy).
6. Abbondanza, M., Foppolo, F., **Rinaldi, L.**, & Marelli, M. (2019). Quantifiers and analogue quantity processing: an eye-tracking study. *Brain, Language & Learning*. September 2019, Siena (Italy).

7. Marelli, M., & **Rinaldi, L.** (2018). Numerals Beyond Language: When Word Usage is Governed by Psychophysical Laws. *Eleventh International Conference on the Mental Lexicon*. September 2018, Edmonton (Canada).
8. Lega, C., Cattaneo, Z., Girelli, L., Vecchi, T., Bernardi, N.F., & **Rinaldi, L.** (2017). Auditory pitch shapes grasping movements: the role of automaticity and musical expertise. *The Neurosciences and Music-VI*. June 2017, Boston (USA).
9. Mazzanti, S., Sacco, E., **Rinaldi, L.**, & Girelli, L. (2017). “Mani abili per menti abili”? L’importanza della valutazione delle abilità fine-motorie in età prescolare. *Developmental Neuropsychology Workshop*. February, 2017, Brixen (Italy).
10. **Rinaldi, L.**, Maggioni, E., Olivero, N., Maravita, A., & Girelli, L. (2015). Pleasantness smells like a spatial boundary: Odor pleasantness shifts visuospatial attention in humans. *International Convention of Psychological Science*. March 2015, Amsterdam (Netherlands).
11. **Rinaldi, L.**, Lega, C., Cattaneo, Z., Girelli, L., & Bernardi, N.F. (2015). Pitch and grasp the sound! Action planning dances on pitch dimension. *Thirty-Three European Workshop on Cognitive Neuropsychology*. January 2015, Brixen (Italy).
12. **Rinaldi, L.**, Brugger, P., Bertolini, G., Bockisch, C.J., & Girelli, L. (2014). Keeping an eye on temporal order: ocular movements bind space and time. *14th European Workshop of Imagery and Cognition (EWIC)*, June 2014, Cyprus.
13. Lega, C., Bernardi, N.F., Ancona, N., Cattaneo, Z., Girelli, L., & **Rinaldi, L.** (2014). Musical expertise modulates the spatial organization of pitch representation. *The Neurosciences and Music-V*. May 2014, Dijon (France).
14. **Rinaldi, L.**, Lega, C., Cattaneo, Z., Girelli, L., & Bernardi, N.F. (2014). Pitch and grasp the sound! Action planning dances on pitch dimension. *The Neurosciences and Music-V*. May 2014, Dijon (France).
15. **Rinaldi, L.**, Di Luca, S., Henik, A., & Girelli, L. (2013). An Interactive Account of visuo-spatial asymmetries: developmental and cross-cultural impact of reading and writing systems. *Eighteenth Conference of the European Society for Cognitive Psychology (ESCOP)*. August 2013, Budapest (Hungary).
16. **Rinaldi, L.**, Di Luca, S., Henik, A., & Girelli, L. (2013). A helping hand putting in order? Language dependent constraints underlying order-fingers mapping. *Thirty-First European Workshop on Cognitive Neuropsychology*. January 2013, Brixen (Italy).
17. **Rinaldi, L.**, Di Luca, S., Henik, A., & Girelli, L. (2012). Reading direction shifts visuo-spatial attention: when attentional biases are cultural based. *5th International Conference on Spatial Cognition: “Space and Embodied Cognition”*. September 2012, Rome (Italy).
18. **Rinaldi L.**, & Girelli, L. (2011). The role of number-space associations in preschoolers' numerical competence. *Typical and Atypical Neurocognitive Aspects of Numerical Processing*. April 2011, Beer Sheva and Haifa (Israel).

Organized workshops and symposia

1. **Rinaldi, L.** & Bottini, R. (2024). Cognitive maps, from space to concepts. *Learning and Plasticity Meeting*. April 2024, Äkäslompolo (Finland).
2. **Rinaldi, L.** & Marelli, M. (2024). More than words: the impact of language on perception. *University of Pavia*. February 2024, Pavia (Italy).
3. **Rinaldi, L.** & Marelli, M. (2023). More than words: the impact of language on perception. *European Workshop on Cognitive Neuropsychology*. January 2023, Brixen (Italy).
4. **Rinaldi, L.** (2022). Was that real? Walking the thin line between real and false memories. *XXX Congress of the Italian Psychology Association*. September 2022, Padova (Italy).
5. **Rinaldi, L.** (2018). Grasping numbers: is it really all about the senses? New insights from language research. *Joint Congress of the SEPEX, SEPNECA and AIP experimental*. July 2018, Madrid (Spain).
6. Girelli, L., Bottini, R. & **Rinaldi, L.** (2014). Embodiment of abstract concepts: what's special about space. Department of Psychology, University of Milano-Bicocca. June 2014, Milan (Italy).

Journal reviewing

International:

Acta Psychologica

Attention, Perception & Psychophysics

Behavior Research Methods

Brain and Cognition

Child Development Perspectives

Cognition

Cognitive Development

Cognitive Processing

Cognitive Science

Consciousness & Cognition

Cortex

Current Directions in Psychological Science

Experimental Brain Research

Frontiers in Psychology

Journal of Experimental Psychology: General

Journal of Experimental Psychology: Human Perception and Performance

Journal of Experimental Psychology: Learning, Memory and Cognition

Journal of Intelligence

Journal of Neurophysiology

Journal of Vision

Laterality

Multisensory Research

Neurological Sciences

Neuropsychologia

Neuroscience & Biobehavioral Reviews

PLoS One

Psychological Reports

Psychological Research

Psychology of Aesthetics, Creativity, and the Arts
Psychology of Language and Communication
Psychonomic Bulletin & Review
Scientific Reports
Swiss Journal of Psychology
The Quarterly Journal of Experimental Psychology

National:

Disturbi di Attenzione e Iperattività
Giornale Italiano di Psicologia

Grant reviewing

Natural Sciences and Engineering Research Council of Canada, Canada (NSERC)
French National Research Agency, France (ANR)

Society Membership

Association for Psychological Sciences (APS), European Society of Cognitive Psychology (ESCP),
Associazione Italiana di Psicologia: Sezione Sperimentale (AIP).

Media coverage

1. Perrone et al. Temporal perception in closed skills sports: an experimental study on elite swimmers and runners. *Psychology of Sport and Exercise* (2023):

- **La Gazzetta dello Sport** – 21/01/24

<https://www.gazzetta.it/salute/per-lo-sport/21-01-2024/orologio-interno-come-regolarlo-con-il-nuoto-lo-studio-cosa-sapere.shtml>

- **Le Scienze** – 19/10/23

<https://www.lescienze.it/news/2023/10/19/news/un-orologio-interno-che-spacca-il-secondo-possiamo-ottenerlo-grazie-al-nuoto-13805524/>

2. Gatti et al. Spatial representations without spatial computations. *Psychological Science* (2022):

- **La Stampa** – 02/11/22

<https://www.lastampa.it/tuttoscienze/2022/11/02/news/e-il-linguaggio-che-ci-orienta-nello-spazio-12211114/>

- **Prima Pavia** – 28/10/22

<https://primapavia.it/attualita/lo-studio-delluniversita-di-pavia-per-fare-geografia-non-servono-per-forze-le-immagini/>

3. Petilli et al. How difficult is it for adolescents to maintain attention? *QJoEP* (2020):

- **Il Giorno** - 15/04/20

<https://www.ilgiorno.it/milano/cronaca/lo-sport-aiuta-a-pensare-bene-bocciati-i-videogiochi-action-1.5108553>

- **Scuola24, Il Sole 24 Ore** - 15/04/20

<http://scuola24.ilsole24ore.com/art/scuola/2020-04-14/praticare-sport-e-giocare-videogiochi-action-effetti-opposti-capacita-attenzione-prolungata-adolescenti-181540.php?uuid=ADDIdDK>

4. Rinaldi et al., Walking on a mental time line, *Cortex* (2016):

- **Scientific American** - 1/11/16

<https://www.scientificamerican.com/article/how-we-make-sense-of-time/>

- **Focus** - 20/04/16

<http://www.focus.it/scienza/scienze/il-futuro-e-davanti-a-noi-il-passato-dietro>

- **Panorama** - 20/04/16

<http://www.panorama.it/scienza/salute/il-nostro-corpo-e-una-macchina-del-tempo-la-scoperta-degli-scientziati-italiani/>

- **Le Scienze** - 19/04/16

http://www.lescienze.it/lanci/2016/04/19/news/universita_milano-bicocca_il_nostro_corpo_e_una_macchina_del_tempo-3058377/

- **OK Salute e Benessere**- 20/04/16

<http://www.ok-salute.it/psiche-e-cervello/corpo-macchina-del-tempo/>

5. Rinaldi et al., Keeping an eye on serial order, *Cognition* (2015):

- **La Repubblica** - 09/07/15

http://www.repubblica.it/scienze/2015/07/09/news/gli_occhi_si_muovono_da_sinistra_a_destra_la_direzione_per_ricordare-118706583/

- **TGCOM 24** - 09/07/15

http://www.tgcom24.mediaset.it/salute/memoria-davvero-visiva-muovendo-gli-occhi-ricordiamo-meglio_2121568-201502a.shtml

- **Il Secolo XIX** - 10/07/15

http://www.ilsecoloxix.it/p/magazine/2015/07/10/ARd77e4E-aiutano_memoria_muovendosi.shtml

- **Panorama** - 09/07/15

<http://www.panorama.it/scienza/salute/gli-occhi-funzionano-come-un-laser-per-cercare-tra-ricordi/>

- **Focus** - 09/07/15

<http://www.focus.it/scienza/salute/gli-occhi-funzionano-come-un-laser-per-cercare-tra-ricordi>

Le dichiarazioni rese nel presente curriculum sono da ritenersi rilasciate ai sensi degli artt. 46 e 47 del D.P.R. 445/2000.

Luca Rinaldi