

Maristella Lunardon

Scuola Internazionale Superiore di Studi Avanzati (SISSA).

Via Bonomea 265, 34136 - Trieste, Italy

maristella.lunardon@sissa.it

Academic qualifications

October 2020 – date	PhD candidate in Cognitive Neuroscience Scuola Internazionale Superiore di Studi Avanzati (SISSA) Supervisor: prof. Raffaella Rumiati. Co-supervisor: dr. Tania Cerni
October 2014 - April 2017	Master degree in Cognitive Neuroscience and Clinical Neuropsychology University of Padova
October 2011- July 2014	Bachelor degree in Psychological developmental and educational sciences University of Padova

Academic employments

June – October 2020	Scholarship holder in the research project “Atypical development of number sense” University of Padova. Supervisor: prof. Marco Zorzi
February – March 2020	Research assistant in the research project “Architecture of orthographic system and pathogen mechanisms in reading and writing disorders” Centro Medico di Foniatria (Padova). Supervisor: prof. Giuseppe Cossu

Professional membership

July 2020 - date	Member of the Board of Psychologists of Veneto
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Additional research experiences

September 2019 – February 2020	Internship on developmental dyscalculia and other neurodevelopmental disorders University of Padova. Supervisor: prof. Silvia Lanfranchi Research and outreach activities
Maggio 2016- Maggio 2017	Internship in the research project “Training numerical skills in children with Down syndrome” University of Padova. Supervisor: prof. Marco Zorzi. Co-supervisor: dr. Francesco Sella
Ottobre 2013- Maggio 2014	Internship in the research project “Training of numerical skills in primary school children” University of Padova, Villatora primary school (Padova). Supervisor: prof. Daniela Lucangeli. Co-supervisor: dr. Francesco Sella

Career breaks

November 2017- November 2018	Civil service volunteer Africa Call Organization (Lusaka, Zambia) General administration, monitoring of physiotherapy department and special education need school sections.
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Additional work experiences

October 2019	Supplementary nursery educator Cassola solidale Social Cooperative (Cassola) Daily service for 3-to-36-month-old children.
March – August 2019	Internship in a psychoeducational service for individuals with neurodevelopmental disorders Oikia per la Famiglia Social Cooperative (Padova) Support, organization and management of psychoeducational activities with children and young adults with intellectual disabilities, autism spectrum disorders and learning difficulties.
June - July 2015, 2016, 2017, 2019	Summer camp educator Comune di Cassola (Vicenza) Organization and management of daily activities for 3-to-10-year-old children.
February - June 2016, October 2017	Supplementary primary school teacher G. Marconi State School (Cassola) Special need teacher; mathematics and English classes for 1st to 5th graders
June – September 2013	Internship in a neuropsychology, psychology, rehabilitation and psychotherapy centre Centro Phoenix (Romano d'Ezzelino) In-depth study of neuropsychological tests for the assessment of learning disabilities.

Skills

Language	<ul style="list-style-type: none">• Native language: Italian• Other language skills:<ul style="list-style-type: none">o English: C1o German: A2
IT skills	<ul style="list-style-type: none">• OS: Windows, GNU/Linux-Ubuntu• Programming languages: R (proficient user), Matlab (intermediate), Python (beginner), Javascript (beginner)• Statistical software: Jasp, SPSS

Research output

Conferences (most relevant)

Lunardon, M., Cerni, T., & Rumiati, R. (2021, June). Cognitive and Non-Cognitive Factors Influencing the Numeracy Gender Gap in Higher Education [Oral presentation]. Second international conference of the journal "Scuola democratica".

Lunardon, M., Cerni, T., & Rumiati, R. (2022, June). Numeracy gender gap in STEM higher education: the role of neuroticism and math anxiety [Poster session]. Mathematical Cognition and Learning Society Conference, Anverse, Belgium.

Lunardon, M., Cerni, T., & Rumiati, R. (2023, January). Math anxiety, but not neuroticism, modulates cortisol effect on numeracy in non-STEM students regardless of gender [Poster session]. European Workshop in Cognitive Neuropsychology, Bressanone, Italy.

Lunardon, M., Cerni, T., & Rumiati, R. (2023, June). Field of study and gender modulation of the effect of personality and math anxiety on numeracy [Oral presentation]. Mathematical Cognition and Learning Society Conference, Loughborough, England.

Lunardon, M., Lucangeli, D., Zorzi, M., & Sella, F. (2022, June). Math computerized games in the classroom: a Number Line Training in Primary School Children [Poster session]. Mathematical Cognition and Learning Society Conference, Anverse, Belgium.

Publications

Dolfi, S., Decarli, G., Lunardon, M., De Filippo De Grazia, M., Gerola, S., Lanfranchi, S., Cossu, G., Sella, F., Testolin, A., & Zorzi, M. (2023). Weaker number sense accounts for impaired numerosity perception in dyscalculia: behavioral and computational evidence. Submitted.

Lanfranchi, S., Onnivello, S., Lunardon, M., Sella, F., & Zorzi, M. (2021). Parent-based training of basic number skills in children with Down syndrome using an adaptive computer game. *Research in Developmental Disabilities*, 112, 103919. <https://doi.org/10.1016/j.ridd.2021.103919>

Lanfranchi, S., Sella, F., Onnivello, S., Lunardon, M., & Zorzi, M. (2022). Number estimation in Down syndrome: Cognition or experience? *Research in Developmental Disabilities*, 131, 104363. <https://doi.org/10.1016/j.ridd.2022.104363>

Lunardon, M., Cerni, T., & Rumiati, R.I. (2021). "Cognitive and Non-Cognitive Factors Influencing the Numeracy Gender Gap in Higher Education" in *Proceedings of the 2nd International Conference of the Journal Scuola Democratica "Reinventing Education", VOL. 2, Learning with New Technologies, Equality and Inclusion*, pp. 1037-1047

Lunardon, M., Cerni, T., & Rumiati, R. I. (2022). Numeracy Gender Gap in STEM Higher Education: The Role of Neuroticism and Math Anxiety. *Frontiers in Psychology*, 13, 856405.

<https://doi.org/10.3389/fpsyg.2022.856405>

Lunardon, M., Cerni, T., & Rumiati, R. I. (2023). Field of study and gender modulation of the effect of personality and math anxiety on numeracy. Submitted.

Lunardon, M., Decarli, G., Sella, F., Lanfranchi, S., Gerola, S., Cossu, G., & Zorzi, M. (2023). Low discriminative power of WISC cognitive profile in developmental dyscalculia. *Research in Developmental Disabilities*, 136. <https://doi.org/10.1016/j.ridd.2023.104478>.

Lunardon, M., Lucangeli, D., Zorzi, M., & Sella, F. (2023). Math computerized games in the classroom: a Number Line Training in Primary School Children. *Progress in Brain Research*, 276, 1-33. <https://doi.org/10.1016/bs.pbr.2022.11.001>

Sella, F., Onnivello, S., Lunardon, M., Lanfranchi, S., & Zorzi, M. (2021). Training basic numerical skills in children with Down syndrome using the computerized game “The Number Race.” *Scientific Reports*, 11(1), 2087. <https://doi.org/10.1038/s41598-020-78801-5>

Extra-curricular activities

- Daily press review for the SISSA Communication Office (*January 2023 – date*).
- Financial resources management support of the Human Labs, Cognitive Neuroscience Department, SISSA (*January – December 2022*).
- Participation to the outreach program “SISSA for School”. Organization and implementation of science communication activities for first to thirteenth graders (*January 2022 - date*).