Marco Ciapparelli

Via Bellini, 17
Legnano
Italy
✱ *12 May 1997*
☎ *+39 346 827 0424*
✉ *m.ciapparelli1@campus.unimib.it*

Current position

Dec 2024 – current	**Postdoctoral Fellow**, *Università degli Studi di Milano-Bicocca*, Milan, Italy

Education

Nov 2021 – Nov 2024	**Ph.D., Experimental Psychology, Linguistics and Cognitive Neuroscience**, *Università degli Studi di Milano-Bicocca*, Milan, Italy Supervisor: Marco Marelli; Co-supervisor: Carlo Reverberi Thesis: Multiple routes to conceptual combination: A distributional modeling approach
Oct 2023 – Mar 2024	**Visiting Ph.D. student**, *University of Pennsylvania*, Philadelphia, PA, USA Supervisor: Sharon Thompson-Schill
Oct 2019 – Oct 2021	**M.S., Applied Experimental Psychological Sciences**, *Università degli Studi di Milano-Bicocca*, Milan, Italy, *110/110 cum laude* Thesis: Predicting the memory advantage of counterintuitive concepts: The participation coefficient as a measure of recall
Oct 2016 – Oct 2019	**B.S., Psychological Sciences and Techniques**, *Università degli Studi di Milano-Bicocca*, Milan, Italy, *110/110 cum laude* Thesis: Distributional models for grounded cognition: explaining semantic priming effects

Further Education

25 Mar 2019 – 31 Mar 2019	**International Interdisciplinary Computational Cognitive Science Spring School**, *Bernstein Center*, Freiburg, Germany
9 May 2021 – 13 May 2021	**Eye tracking technology: A training workshop on methods for psychological and educational research**, *University of Oslo*, Oslo, Norway

Teaching

Apr 2024 – May 2024	**Tutoring**, *Tutor of the Computational modelling course from the Applied Experimental Psychological Sciences (AEPS) Master course (25 hours)*, University of Milan-Bicocca, Milan, Italy
22 Apr 2024	**Seminar**, *Participated in the Multi-Variate Pattern Analysis (MVPA) for neuroimaging seminars with a lecture titled: "Semantic composition in the brain: A representational similarity approach" (2 hours)*, University of Milan-Bicocca, Milan, Italy

4 Jul 2024	**Workshop**, *Held the minicons and large language models practical workshop (2 hours)*, Belgrade University, Belgrade, Serbia
24 Jun - 27 Jun 2025	**Workshop**, *Held the Python for linguists practical workshop (4 hours)*, Birmingham University, Birmingham, UK
26 Jun - 27 Jun 2025	**Workshop**, *Held the Large language models for (psycho)linguistics practical workshop (6 hours)*, Birmingham University, Birmingham, UK

Publications

1. Petilli, M. A., Günther, F., Vergallito, A., **Ciapparelli, M.**, & Marelli, M. (2021). Data-driven computational models reveal perceptual simulation in word processing. *Journal of Memory and Language*, 117, 104194
2. **Ciapparelli, M.**, Zarbo, C., & Marelli, M. (2025). Conceptual Combination in Large Language Models: Uncovering Implicit Relational Interpretations in Compound Words with Contextualized Word Embeddings. *Cognitive Science*, 49(3), e70048.
3. **Ciapparelli, M.**, Marelli, M., Graves, W., & Reverberi, C. (accepted). Compositionality in the semantic network: A model-driven representational similarity analysis. *Cerebral Cortex*.

Book Chapters, Textbook Contributions

1. De Varda., A, & **Ciapparelli, M.** (2024). Word semantic similarity norms. *In press*
2. **Ciapparelli, M.**, & De Varda., A, (2025). BERT pre-trained models. *In press*

Conferences and Seminars

25 Mar 2019 – 31 Mar 2019	**International Interdisciplinary Computational Cognitive Science Spring School**, *Bernstein Center*, Germany, *Poster presentation.* Petilli, M. A., Günther, F., Vergallito, A., **Ciapparelli, M.**, & Marelli, M. (2019). Does word processing involve visual simulations? An experiment with semantic priming and vision-based distributional models
15 Dec 2022 – 17 Dec 2022	**Italian Association of Cognitive Sciences**, *Università di Trento*, Rovereto, Italy, *Oral presentation.* **Ciapparelli, M.**, Günther, F., & Marelli, M. (2023). Semantic transparency in compound word reading: A computational investigation
4 May 2023 – 6 May 2023	**Workshop on Concepts, Actions, and Objects**, *CIMeC*, Rovereto, Italy, *Poster presentation.* **Ciapparelli, M.**, Reverberi, C., & Marelli, M. (2023). Semantic composition in the brain: A representational similarity approach
29 May 2023 – 31 May 2023	**Psycholinguistics in Flanders Conference**, *University of Ghent*, Ghent, Belgium, *Oral presentation.* **Ciapparelli, M.**, & Marelli, M. (2023). Modeling compound word relational interpretations with contextualized word embeddings
6 Sep 2023 – 9 Sep 2023	**Conference of the European Society for Cognitive Psychology (ES-COP)**, *University of Porto*, Porto, Portugal, *Oral presentation.* **Ciapparelli, M.**, Zarbo, C., & Marelli, M. (2023). Contextualized word embeddings capture compound words' implicit relational interpretations

4 Jul 2024 – 6 Jul 2024	**International Word Processing Conference (WoProc)**, *Belgrade University*, Belgrade, Serbia, *Oral presentation.* **Ciapparelli, M.**, Zarbo, C., & Marelli, M. (2024). Uncovering implicit relational interpretations of compound words with contextualized word embeddings
8 Jul 2024 – 11 Jul 2024	**Highlights in the Language Sciences**, *Radboud University*, Nijmegen, Netherlands, *Poster presentation.* **Ciapparelli, M.**, Reverberi, C., & Marelli, M. (2024). Neural representations of combinatorial semantics: A model-based fMRI reanalysis
5 Nov 2024	**Invited talk**, *RWTH Aachen University*, Aachen, Germany, *Oral presentation.* Predicting the appearance of novel combined concepts via language-vision alignment
7 May 2025 – 9 May 2025	**Workshop on Concepts, Actions, and Objects**, *CIMeC*, Rovereto, Italy, *Poster presentation.* **Ciapparelli, M.**, & Thompson-Schill, S. (2025). Predicting the appearance of novel combined concepts via language-vision alignment
23 Jun - 27 Jun 2025	**MEDAL Summer School in Computational Modelling**, *Birmingham University*, Birmingham, UK, *Invited plenary talk (with Marco Marelli)* Understanding the unknown: How to make sense of unfamiliar words, from a computational psycholinguistic perspective

Languages

Italian	Native language
English	Fluent (C1 level)
Mandarin Chinese	Early beginner (A1 level)

Computer skills

MATLAB, R, Python, Qualtrics, PsychoPy3, SPM12