

# University Academic Curriculum Vitae

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## Personal information

Name: **MILVIA COTTINI**

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## Education

- 2023, Abilitazione Scientifica Nazionale, fascia II, Psicologia dello Sviluppo e dell'educazione, 11/E2, SSD: M-PSI/04 (postdoctoral lecture qualification for the discipline Developmental and Educational Psychology).
- 2018, PhD in Psychology, Neuroscience and Medical Statistics (subject areas: General and Developmental Psychology), University of Pavia, Italy.
- 2018, PhD education program of the Swiss Graduate School for Cognition, Learning and Memory, University of Bern, Switzerland.
- 2018, Abilitazione alla professione di psicologo (professional qualification in Psychology), University of Pavia, Italy.
- 2012, Master's Degree in Developmental and Educational Psychology and Psychology of Wellbeing, "La Sapienza" University of Rome, Italy.
- 2010, Bachelor's Degree in Developmental and Educational Psychology, University of Padova, Italy.

## Present appointment

### Junior researcher with fixed-term contract

- 01/11/2018 – present
- Faculty of Education, Free University of Bolzano-Bozen
- Subject area: Developmental and Educational Psychology

## Research interests

Development of cognitive processes in preschool- and school-aged children as well as across the lifespan, with particular focus on prospective memory, metacognition, executive functions, working memory, episodic future thinking, bilingualism.

## Previous appointments

- 11/2017 - 10/2018: Research scholar at the Department of Brain and Behavioral Sciences, University of Pavia, Italy.
- 01/2017 - 07/2017: Visiting researcher at the Center for Cognition, Learning and Memory and the Division of Experimental Psychology and Neuropsychology, University of Bern, Switzerland.
- 11/2014 - 10/2017: PhD Student in Psychology, Neuroscience and Medical Statistics at the Department of Brain and Behavioral Sciences, University of Pavia, Italy.
- 05/2014 - 09/2014: Research collaborator at the Faculty of Education, Brixen-Bressanone, Free University of Bolzano-Bozen, Italy.
- 04/2013 - 04/2014: Postgraduate Research trainee in General and Developmental Psychology at the Faculty of Education, Brixen-Bressanone, Free University of Bolzano-Bozen, Italy.

## Experience in academic teaching

- Lecturer: Psychology of Education and Learning in Childhood and Youth, A.Y. 2019-present, Master of Education (German section), Faculty of Education, Bressanone-Brixen, Free University of Bolzano-Bozen.
- Lecturer: Psychology of Education and Learning in Childhood and Youth (Lab.), A.Y. 2018-present, Master of Education (German section), Faculty of Education, Bressanone-Brixen, Free University of Bolzano-Bozen.
- Lecturer: Psychology of Education and Learning in early Childhood with Reference to Inclusion (Lab.), A.Y. 2018-2019, Master of Education (German section), Faculty of Education, Bressanone-Brixen, Free University of Bolzano-Bozen.
- Lecturer: Psychology of Development and Learning, A.Y. 2017-2018, Teacher training course for the acquirement of 24 credit points (pre-FIT), Faculty of Education (German section), Bressanone-Brixen, Free University of Bolzano-Bozen, post-graduate students.

## Publications

Publications in refereed academic journals and conference proceedings:

- Trotta, E., Serio, G., Bonvino, A., Favini, A., **Cottini, M.** & Palladino, P. (accepted). English Metacognitive Questionnaire (EMQ): Analisi delle proprietà psicometriche dello strumento nella scuola primaria (EMQ-PS). *Giornale Italiano di Psicologia*.
- Palladino, P., Trotta, E., Bonvino, A., Carlucci, L., & **Cottini, M.** (2025). How do you feel during English class? Emotions and Metacognition in primary school children learning English as a second language. *Metacognition and Learning*, 20(10). <https://doi.org/10.1007/s11409-025-09414-4>
- Trotta, E., **Cottini, M.**, Cannito, L., & Palladino, P. (2024). Difficoltà nel vocabolario L1 e apprendimento della lingua inglese L2: un'indagine sulle emozioni legate al contesto di apprendimento alla scuola primaria. *Ricerche di Psicologia*, 47(2), 83-101. <https://doi.org/10.3280/rip2024oa18584>
- **Cottini, M.**, Palladino, P., & Basso, D. (2024). From the lab to the classroom: Improving children's prospective memory in a natural setting. *British Journal of Educational Psychology*, 94, 809–823. <https://doi.org/10.1111/bjep.12682>
- **Cottini, M.** (2023). Improving children's ability to remember intentions: A literature review on strategies to improve prospective memory during childhood. *Psychological Research*, 87, 2317–2335. <https://doi.org/10.1007/s00426-023-01834-8>
- Basso, D., Corradini, G., & **Cottini, M.** (2023). "Teacher, forgive me, I forgot to do it!" The impact of children's prospective memory and social skills on teachers' evaluations of academic performance. *British Journal of Educational Psychology*, 93(1), 17–32. <https://doi.org/10.1111/bjep.12537>
- Basso, D. & **Cottini, M.** (2023) Cognitive Neuroscience and Education: Not a Gap to Be Bridged but a Common Field to Be Cultivated. *Sustainability*, 15(2), 1628. <https://doi.org/10.3390/su15021628>
- Meier, B., & **Cottini, M.** (2023). After-effects of responding to activated and deactivated prospective memory target events differ depending on processing overlaps. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 49(3), 389–406. <https://doi.org/10.1037/xlm0001154>
- Kálózi-Szabó, C., Mohai, K., & **Cottini, M.** (2022) Employing robotics in education to enhance cognitive development – A pilot study. *Sustainability*, 14(23), 15951. <https://doi.org/10.3390/su142315951>

- Palladino, P., Muzzi, R., Niccolai, E., **Cottini, M.**, Peconio, G., Doronzo, F., Toto, G. A., & Limone, P. (2022). A Project to Promote English Learning in Primary School: "An English Island®" E-learning Platform. In: Limone, P., Di Fuccio, R., Toto, G.A. (eds) *Psychology, Learning, Technology. PLT 2022. Communications in Computer and Information Science*, vol 1606. Springer, Cham. [https://doi.org/10.1007/978-3-031-15845-2\\_5](https://doi.org/10.1007/978-3-031-15845-2_5)
- **Cottini, M.**, Basso, D., Pieri, A., & Palladino, P. (2021). Metacognitive Monitoring and Control in Children's Prospective Memory. *Journal of Cognition and Development*, 22(4), 619-639. <https://doi.org/10.1080/15248372.2021.1916500>
- **Cottini, M.**, Basso, D., & Palladino, P. (2021). Improving Prospective Memory in School-Aged Children: Effects of Future Thinking and Performance Predictions. *Journal of Experimental Child Psychology*, 204, 105065. <https://doi.org/10.1016/j.jecp.2020.105065>
- Sangiuliano Intra, F., Cagol, M., Basso, D., **Cottini, M.** (2020). Can binaural beat stimulation support children's sustained attention?. *Ricerche di Psicologia*, 4, 1153-1165. <https://doi.org/10.3280/RIP2020-004010>
- **Cottini, M.** & Meier, B. (2020). Prospective memory monitoring and aftereffects of deactivated intentions across the lifespan. *Cognitive Development*, 53, 100844, 1–17. <https://doi.org/10.1016/j.cogdev.2019.100844>
- **Cottini, M.**, Basso, D., Saracini, C., & Palladino, P. (2019). Performance Predictions and Postdictions in Prospective Memory of School-aged Children. *Journal of Experimental Child Psychology*, 179, 38–55. <https://doi.org/10.1016/j.jecp.2018.10.008>
- Basso, D., Saracini, C., Palladino, P., **Cottini, M.** (2019). Travelling Salesperson in an Immersive Virtual Environment: Experimental Evaluation of Tracking System Device. In: Luigini A. (eds) *Proceedings of the 1st International and Interdisciplinary Conference on Digital Environments for Education, Arts and Heritage*. EARTH 2018. Advances in Intelligent Systems and Computing, vol 919, Springer, Cham. [https://doi.org/10.1007/978-3-030-12240-9\\_54](https://doi.org/10.1007/978-3-030-12240-9_54)
- **Cottini, M.**, Basso, D., & Palladino, P. (2018). The role of declarative and procedural metamemory in event-based prospective memory in school-aged children. *Journal of Experimental Child Psychology*, 166, 17–33. <https://doi.org/10.1016/j.jecp.2017.08.002>
- **Cottini, M.**, Pieroni, L., Spataro, P., Devescovi, A., Longobardi, E., & Rossi-Arnaud, C. (2015). Feature binding and the processing of global–local shapes in bilingual and monolingual children. *Memory & Cognition*, 43(3), 441–452. <https://doi.org/10.3758/s13421-014-0467-1>

## Further data

Presentations at scientific conferences and workshops (invited or selected, keynote nature, and status of conference):

- Oral presentation: Milvia Cottini, Paola Palladino, & Demis Basso "The effect of performance predictions and episodic future thinking on children's prospective memory in a natural setting." In Altgassen M. & Bamforth L. (Chairs), Prospective memory development from childhood to young adulthood:

Investigating the role of social-emotional and cognitive factors. Symposium conducted at the 53rd DGPs Congress/15th ÖGP Conference, Vienna, Austria, September 16-19, 2024

- Invited lecture (online): "From the lab to the real world: Improving children's prospective memory inside and outside the laboratory", Research colloquium, 6 December 2022, Johannes Gutenberg Universität, Mainz (Germany), Host: Prof. Dr. Mareike Altgassen.
- Poster presentation: Milvia Cottini, Demis Basso, & Paola Palladino "From the lab to the real world: Improving children's prospective memory in a natural setting." 22<sup>nd</sup> Conference of the European Society for Cognitive Psychology (ESCoP), Lille, France, 29 August – 1 September 2022.
- Invited lecture: "From the lab to the real world: Children's prospective memory in a natural setting", Research colloquium, 4 May 2022, University of Bern (Switzerland), Host: Prof. Beat Meier.
- Oral presentation: Milvia Cottini, Demis Basso, & Paola Palladino "Effects of future thinking and performance predictions on children's prospective memory." In Lavis, L. & Mahy C. (Chairs), The Development of Metacognition from Toddlerhood to Middle Childhood. Symposium conducted at the 50<sup>th</sup> Jean Piaget Society (JPS) Meeting, Virtual Conference, 1-5 June 2021.
- Poster presentation: Milvia Cottini, Demis Basso, & Paola Palladino „Prospective memory development in school-aged children: The positive effects of future thinking and performance predictions on performance." 21<sup>st</sup> Conference of the European Society for Cognitive Psychology (ESCoP), Tenerife, Spain, 25-28 September 2019.
- Poster presentation: Milvia Cottini, Demis Basso, & Paola Palladino „The Role of Procedural and Declarative Metamemory in Children's Prospective Memory." Psychonomic Society International, Amsterdam (Netherlands), 10-12 May 2018.
- Oral presentation: Milvia Cottini & Beat Meier „After-effects of responding to prospective memory targets across the lifespan." In Möschl, M. & Schaper, P. (Chairs), Prospective memory – current trends and theoretical advances. Symposium conducted at the 59th Conference of Experimental Psychologists (TeaP 2017), Dresden (Germany), 26-29 March 2017.
- Poster presentation: „Performance predictions and metamemory knowledge improve children's prospective memory performance". International Conference on Memory 2016 (ICOM-6), Budapest (Hungary), 17-22 July 2016.
- Oral presentation: „The role of metamemory and inhibitory control in children's prospective memory". Cognitive Science Arena, Bressanone (BZ), 19-20 February 2016.
- Oral presentation: Milvia Cottini & Demis Basso „Effetti dell'educazione bilingue sullo sviluppo della memoria prospettica e della memoria di lavoro." XX Congresso di Psicologia Sperimentale, Pavia, 15-17 September 2014.
- Poster presentation: Milvia Cottini & Demis Basso „Prospective memory development in monolingual and bilingual children." IV International Conference on Prospective Memory (ICPM4), Naples, 26-30 May 2014.

**Funded Research Projects**

- Team member: "Neurocognition of arithmetic (re-)learning (NeuroTrain)". Period: March 2022 - February 2025. Funded by Euregio. Principal investigator: Laura Zamarian (Universität Innsbruck).
- Team member: "Robots are among us - Robotics for the inclusive development of atypical and typical children (RIDE)". Period: September 2019 - August 2022. Funded by Erasmus+ KA 2-3. Principal Investigator: Demis Basso.
- Principal Investigator: "Prospective Memory and Metacognition in preschool and school-aged children: The role of cognitive and metacognitive skills in the development of prospective memory and learning abilities (ProMeta)". Period: June 2019 – October 2021. Funded by the Faculty of Education, Free University of Bolzano-Bozen.

**Research awards and others**

- Research Award 2021 of the "Stiftung Südtiroler Sparkasse": Award for junior and senior researchers with fixed-term contracts, associate professors and full professors of the Free University of Bozen-Bolzano, who have not yet reached the age of 40, for outstanding achievements of current research.
- Early Career Researchers Online Event Grant 2021 of the European Society for Cognitive Psychology (ESCoP): Grant to set up online events aimed at other early career researchers.

**Scientific Memberships**

- Member of the "European Society for Cognitive Psychology (ESCoP)"
- Member of the "Associazione Italiana di Psicologia (AIP) – Sezione di Psicologia dello Sviluppo e dell'Educazione"

**Organizational Memberships**

- Member of the organizational and scientific committee of the "Cognitive Science Arena", Free University of Bolzano-Bozen, Bressanone-Brixen (BZ), Italy (since 2021).
- Member of the organizing committee of the "Cognitive Science Arena", Free University of Bolzano-Bozen, 7-8 February 2020, Bressanone-Brixen (BZ), Italy.
- Member of the management committee of the teacher training course for the acquirement of 24 credit points, Faculty of Education, Free University of Bolzano-Bozen (since 2019).
- Member of the organizing committee of the "9th European Working Memory Symposium", 29-31 August 2018, University of Pavia, Italy.
- Member of the organizing committee of the "Cognitive Science Arena for Beginners", Free University of Bolzano-Bozen, 28 February-01 March 2014, Brixen (BZ), Italy.
- Member of the organizing committee of the "Giornate di Neuropsicologia dell'età evolutiva", Free University of Bolzano-Bozen, 15-18 January 2014, Brixen (BZ), Italy.

**Peer review activity**

- Editorial Board Member of the *European Journal of Psychology Open*
- Review Editor at *Frontiers in Psychology: Cognition*
- Review activity for: *Journal of Experimental Psychology: Learning, Memory, and Cognition*; *Journal of Experimental Child Psychology*; *Cognitive Development*; *Frontiers: Psychology*; *Neuroimage: Reports*; *Child Development*; *PLOS ONE*; *Research in Autism Spectrum Disorder*; *Developmental Review*.

**Additional training courses**

- Training course "E-Prime", Faculty of Education, Free University of Bolzano-Bozen (17-19/12/2019).
- Summer School on "Structural Equation Models in R", "La Sapienza" University of Rome (05-08/06/2019).
- Training course "Statistics in R", Department of Brain and Behavioral Sciences, University of Pavia (12/2017 – 06/2018).

**Computing skills**

- Softwares for statistical analyses: R, SPSS, Jamovi.
- Softwares for the design of psychological experiments: SuperLab, E-Prime, OpenSesame and Jatos.

**Language competence**

- German and Italian (native and balanced bilingual; school career in German and University career in Italian; Patentino A of the Province of Bolzano)
- English C1 level (Language Centre, Free University of Bozen-Bolzano)

Bolzano, 10/03/2025