

## Curriculum Vitae

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### Corinna Martarelli

Professor in methods and statistics  
Faculty of psychology  
UniDistance Suisse  
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Date of birth: 09.03.1978  
2 children, Elia (2001) and Lila (2011)

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## Employment

2022 – Present	<b>Professor in methods and statistics</b> at UniDistance Suisse, Brig
2017 - 2022	<b>Assistant professor in methods and statistics</b> at UniDistance Suisse, Brig
2008 - 2018	<b>Research associate</b> at the Department for Cognitive Psychology, Perception, and Research Methods, University of Bern (Leader: Prof. Fred W. Mast)
2012 - 2017	<b>Teaching</b> at UniDistance Suisse, Brig
2007 - 2009	<b>Lecturer in psychological research methods</b> at the Swiss Federal Institute of Technology Lausanne (EPFL), Sciences Humaines et Sociales (SHS)
2006 – 2008	<b>PhD student</b> at the Department of Psychology, University of Lausanne (Leader: Prof. Fred W. Mast)
2004 – 2006	<b>Research associate</b> at the Department of Social and Pedagogical Sciences, University of Lausanne (Leader: Prof. André Petittat)

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## Education

December 2021	<b>Habilitation in Psychology</b> , University of Bern
October 2010	<b>PhD in Psychology</b> , University of Bern

	Thesis title: Toward a better understanding of pictorial recall and reality-fantasy distinctions: A developmental perspective. Advisor: Prof. Fred W. Mast
September 2005	<b>Diploma thesis</b> , University of Lausanne. Advisor: Prof. André Petitat
March 2003	<b>License thesis</b> , University of Lausanne. Advisor: Prof. André Petitat
1997	<b>Matura</b> (classical type), Mendrisio (TI)

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## Funding

Research project funded by Swiss National Science Foundation (Lead Agency) “Boredom and self-control as guiding signals for goal-directed behavior: A novel approach to the ego depletion effect” **Martarelli, C. S.** & Wolff, W. 01.04.2022-31.03.2025 (228'398 CHF).

Research project funded by Swiss National Science Foundation (NRP77 – Digital Transformation) “Using virtual reality to learn about inaccessible micro- and macrocosmic structures in primary school” **Martarelli, C. S.**, Cacchione, T., & Tempelmann, S. 01.05.2020-31.12.2024 (CHF 582'974).

Research project funded by Swiss National Science Foundation “Preschool children’s learning from 3D virtual reality: Investigating the educational impact of the 21st century fairy tales” **Martarelli, C. S.** 01.12.2019-31.11.2023 (CHF 377'949).

Research project funded by UniDistance Suisse “Learning through teaching: Educational applications of virtual reality”, Mast, F. W. & **Martarelli, C. S.**, 01.09.2015-01.09.2018 (CHF 177'282).

Research project funded by Cogito Foundation “Exploring the interdisciplinarity of concepts: Toward an integration of quantitative and qualitative research”, Mast, F. W. & **Martarelli, C. S.**, 01.11.2015-01.02.2017 (CHF 44'500).

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## Publications

**Martarelli, C. S.**, Chiquet, S., & Ertl, M. (2023). Keeping track of reality: Embedding visual memory in natural behavior. *Memory*.

Wolff, W., Bieleke, M., & **Martarelli, C. S.** (2023). Boredom, performance & health. *Performance Enhancement & Health*, 11(3), 100252.

**Martarelli, C. S.**, & Ovalle-Fresa, R. (2023). In sight out of mind? Disengagement at encoding gradually reduces recall of location. *Quarterly Journal of Experimental Psychology*.

**Martarelli, C. S.**, Berthouzoz, P., Bieleke, M., & Wolff, W. (2023). Bored of sports? Investigating the interactive role of engagement and value as predictors of boredom in athletic training. *Sport, Exercise, and Performance Psychology*, 12(2), 141–154.

Chiquet, S., **Martarelli, C.S.**, Weibel, D., & Mast, F.W. (2023). Learning by teaching in immersive virtual reality – Absorption tendency increases learning outcomes. *Learning and Instruction*, 84, 101716.

**Martarelli, C. S.**, Ovalle-Fresa, R., Popic, D., Globig, L. K., & Rothen, N. (2022). Reinstating location improves mnemonic access but not fidelity of visual mental representations. *Cortex*, 156, 39-53.

- Chiquet, S., **Martarelli, C.S.**, & Mast, F.W. (2022). Imagery-related eye movements in 3D space depend on individual differences in visual object imagery. *Scientific Reports*, 12, 14136.
- Martarelli, C. S.**, Baillifard, A., Audrin, C. (2022). A trait-based network perspective on the validation of the French Short Boredom Proneness Scale. *European Journal of Psychological Assessment*.
- Baillifard, A., & **Martarelli, C. S.** (2022). Notes et taux de décrochage inébranlables durant la Covid-19 en enseignement universitaire à distance. *Savoirs*, 60.
- Wolff, W., Bieleke, M., Englert, C., Bertrams, A., Schüler, J., & **Martarelli, C. S.** (2022). A single item measure of self-control – Validation and location in a nomological network of self-control, boredom, and if-then planning. *Social Psychological Bulletin*, 17, 1-22.
- Baillifard, A. & **Martarelli, C.** (2022). Oui à l'ennui [Chronique]. *Formation et profession*, 30.
- Dubach, J., Schelleis, N., Bölsterli, K., Cacchione, T., **Martarelli, C. S.**, Probst, M., Tempelmann, S. (2022). Unzugängliche Welten für das erfahrungsbasierte Lernen erschließen. Immersive Virtuelle Realität im naturwissenschaftlichen Sachunterricht. In: Sachunterricht in der Informationsgesellschaft. Bad Heilbrunn: Verlag Julius Klinkhardt, S. 147-154.
- Martarelli, C. S.**, & Mast, F. W. (2022). Pictorial low-level features in mental images: Evidence from eye fixations. *Psychological Research*, 86, 350-363.
- Martarelli, C. S.**, Bertrams, A., & Wolff, W. (2021). A Personality trait-based network of boredom, spontaneous and deliberate mind-wandering. *Assessment*, 28, 1915–1931.
- Martarelli, C. S.**, Pacozzi, S. G., Bieleke, M., & Wolff, W. (2021). High trait self-control and low boredom proneness help COVID-19 homeschoolers. *Frontiers in Psychology*, 12:594256.
- Martarelli, C. S.**, Wolff, W., & Bieleke, M. (2021). Bored by bothering? A cost-value approach to pandemic boredom. *Humanities and Social Sciences Communication*, 8.
- Bieleke, M., **Martarelli, C. S.**, & Wolff, W. (2021). If-then planning, self-control, and boredom as predictors of adherence to social distancing guidelines: Evidence from a two-wave longitudinal study with a behavioral intervention. *Current Psychology*.
- Chiquet, S., **Martarelli, C.S.**, & Mast, F.W. (2021). Eye movements to absent objects during mental imagery and visual memory in immersive virtual reality. *Virtual Reality*, 25, 655-667.
- Hartmann, M., **Martarelli, C. S.**, Sommer, N. R. (2021). Early is left and up: Saccadic responses reveal horizontal and vertical spatial associations of serial order in working memory. *Cognition*, 217.
- Jost, N. S., Jossen, S. L., Rothen, N., & **Martarelli, C. S.** (2021). The advantage of distributed practice in a blended learning setting. *Education and Information Technologies*, 26, 3097-3113.
- Umar, H., Mast, F. W., Cacchione, T., & **Martarelli, C. S.** (2021). The prioritization of visuo-spatial associations during mental imagery. *Cognitive Processing*, 22, 227-237.
- Wolff, W., Bieleke, M., **Martarelli, C.S.**, & Danckert J. (2021). A Primer on the role of boredom in self-controlled sports and exercise behavior. *Frontiers in Psychology*, 12:637839.
- Wolff, W., & **Martarelli, C. S.** (2020). Bored into depletion? Towards a tentative integration of perceived self-control exertion and boredom as guiding signals for goal-directed behavior. *Perspectives on Psychological Science*, 15, 1272-1283.
- Popic, D., Pacozzi S. G., & **Martarelli, C. S.** (2020). Database of virtual objects to be used in psychological research. *PLOS ONE*, 15: e0238041.

- Hartmann, M., **Martarelli, C. S.**, Reber, T. P., & Rothen, N. (2020). Does a smartphone on the desk drain our brain? No evidence of cognitive costs due to smartphone presence in a short-term and prospective memory task. *Consciousness and Cognition*, 86.
- Martarelli, C. S.**, Wolff, W. (2020). Too bored to bother? Boredom as a potential threat to the efficacy of pandemic containment measures. *Humanities and Social Sciences Communications*, 7.
- Wolff, W., **Martarelli, C. S.**, Schüler, J., Bieleke, M. (2020). High boredom proneness and low trait self-control impair adherence to social distancing guidelines during the COVID-19 pandemic. *International Journal of Environmental Research and Public Health*, 17, 5420.
- Globig, L. K., Hartmann, M., **Martarelli, C. S.** (2019). Vertical head movements influence memory performance for words with emotional content. *Frontiers in Psychology*, 10: 672.
- Englert, C., Koroma, D., Bertrams, A., **Martarelli, C. S.** (2019). Testing the validity of the attention control video: an eye-tracking approach of the ego depletion effect. *PLOS ONE*, 14: e0211181.
- Martarelli, C. S.** (2019). On the link between phenomenal causality and personality dominance. *Cognitive Processing*, 20, 117-123.
- Martarelli, C. S.**, Feurer, E., Dapp, L. C. & Roebers, C. M. (2018). Profiles of executive functions and social skills in the transition to school: A person-centred approach. *Infant and Child Development*, 27: e2114.
- Weibel, D., **Martarelli, C. S.**, Häberli, D., & Mast, F. W. (2018). The fantasy questionnaire: A measure to assess imaginative and creative fantasy. *Journal of Personality Assessment*, 100, 431-443.
- Martarelli, C. S.**, Chiquet, S., Laeng, B., & Mast, F. W. (2017). Using space to represent categories: Insights from gaze position. *Psychological Research*, 81, 721-729.
- Martarelli, C. S.**, Mast, F. W., & Hartmann, M. (2017). Time in the eye of the beholder: Gaze position reveals spatial-temporal associations during encoding and memory retrieval of future and past. *Memory & Cognition*, 45, 40-48.
- Martarelli, C. S.**, Mayer, B. & Mast, F. W. (2016). Daydreams and trait affect: The role of the listener's state of mind in the emotional response to music. *Consciousness and Cognition*, 46, 27-35.
- Wantz, A. L., **Martarelli, C. S.**, Cazzoli, D., Kalla, R., Müri, R., & Mast, F. W. (2016). Disrupting frontal eye-field activity impairs memory recall. *NeuroReport*, 27, 374-378.
- Wantz, A. L., **Martarelli, C. S.**, & Mast, F. W. (2016). When looking back to nothing goes back to nothing. *Cognitive Processing*, 17, 105-114.
- Stocker, K., Hartmann, M., **Martarelli, C. S.**, & Mast, F. W. (2016). Eye movements reveal mental scanning through time. *Cognitive Science*, 40, 1648-1670.
- Martarelli, C. S.**, Mast, F. W., Läge, D., & Roebers, C. M. (2015). The distinction between real and fictional worlds: Investigating individual differences in fantasy understanding. *Cognitive Development*, 36, 111-126.
- Martarelli, C. S.**, Borter, N., Bryjova, J., Mast, F. W., & Munsch, S. (2015). The influence of parent's body mass index on peer selection: An experimental approach using virtual reality. *Psychiatry Research*, 230, 5-12.
- Martarelli, C. S.**, Gurtner, L. M., & Mast, F. W. (2015). School-age children show a bias toward fantasy classifications after playing platform games. *Psychology of Popular Media Culture*, 4, 351-359.
- Hartmann, M., **Martarelli, C. S.**, Mast, F. W., & Stocker, K. (2014). Eye movements during mental time travel follow a diagonal line. *Consciousness and Cognition*, 30, 201-209.
- Martarelli, C. S.**, & Mast, F. W. (2013). Eye movements during long-term pictorial recall. *Psychological Research*, 77, 303-309.

**Martarelli, C. S., & Mast, F. W.** (2013). Is it real or is it fiction? Children's bias toward reality. *Journal of Cognition and Development, 14*, 141-153.

**Martarelli, C. S., & Mast, F. W.** (2011). Preschool children's eye movements during pictorial recall. *British Journal of Developmental Psychology, 29*, 425-436.

Canevascini, M., **Martarelli, C.**, & Lettieri, K. (2008). Évaluation d'une association régionale de prévention du suicide en Suisse, *Santé Publique, 20*, 275-284.

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## Advising

I am currently scientific advisor for five PhD students (Ambroise Baillifard, Pauline Berthouzoz, Lucas Dall'Olio, Alexandra Lapteva, Laura Rotheichner) and co-advisor for two PhD student (Natalie Schelleis, Vanessa Radtke). I served as scientific advisor for Hafidah Umar (2015-2019). I am serving and I have served as advisor for around forty Bachelor theses and twenty Master theses principally at the University of Bern and at UniDistance Suisse.

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## Teaching

- Since 2018 An introduction to open science (Master), UniDistance Suisse
- Since 2017 Research methods and statistics in psychology (Bachelor), UniDistance Suisse
- Since 2017 Subjective reality of the inner world: Themes and methods in cognitive psychology (Bachelor Seminar), UniDistance Suisse
- 2010-2015 Introduction and training in eye tracking research (Master), University of Bern
- 2010-2015 Tutorial in research methods in psychology (Bachelor), University of Bern
- 2008-2018 Tutorial in statistics II (Bachelor), University of Bern
- 2008-2018 Tutorial in statistics III (Master), University of Bern
- 2011-2013 Fantasy, reality, and perception (Master Seminar), University of Bern
- 2007-2009 Experimental methods in psychology (Bachelor), Swiss Federal Institute of Technology Lausanne

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## Reviewing (a selection)

Journal of Experimental Psychology, Journal of Experimental Child Psychology, Memory & Cognition, Journal of Cognitive Psychology, Cognitive Processing, Experimental Brain Research, British Journal of Developmental Psychology, Swiss Journal of Psychology, Computers in Human Behavior, Acta Psychologica, Frontiers in Psychology, Infant and Child Development, Early Childhood Research Quarterly, Children, Current Psychology, Experimental Aging Research.