

MONICA BUCCIARELLI
CURRICULUM VITAE

Personal Information

Name: Monica Bucciarelli

Date of birth: April the 19th 1968

Nationality: Italian

Current/past positions

1997-2000 **Researcher in General Psychology** Department of Psychology and *Faculty of Psychology*,
University of Turin

2000-2006 **Associate Professor in General Psychology** Department of Psychology and *Faculty of
Sciences of Education and Training*, University of Turin

2006- **Full Professor of General Psychology** Department of Psychology, University of Turin

Education

1990 **Degree in Pedagogy** from the University of Florence

1994 **Ph.D in Developmental Psychology** at the University of Florence

1995-1997 **Post-Doctoral Research Fellowship** at the University of Turin

1997 **Degree in Psychology** from the University of Turin

2005 **Master in Cognitive Psychotherapy** Italian Society for Behavior and Cognitive Therapy

Teaching

A.Y. 2002-2003 / 2012-2013 **lecturer in The Psychology of Learning** (Second-level degree in Education,
Faculty of Education and Training, University of Turin) – 54 hours per year

Since A.Y. 2000-2001 **lecturer in General Psychology** (Three-year degree course in Education, Faculty of
Education and Training, University of Turin) – 54 hours per year

A.Y. 2013-2014 / 2022-2023 **lecturer in The Psychology of Reasoning** (Second-level degree in
Psychology, Department of Psychology) – 60 hours per year

Since A.Y. 2023-2024 **lecturer in The Psychology of Reasoning** (Second-level degree in Psychology,
Department of Psychology) – 48 hours per year

Since A.Y. 2023-2024 **lecturer in General and Communication Psychology** (First-level degree in
Psychology, Science of Communication) – 18 hours per year

Since A.Y. 2000 **Member of the teaching body of the Doctoral School in Neurosciences**, University of
Turin

Research collaborations

- Collaboration with the **Department of Psychology of Florence University** since 1987.
- Working at the **Department of Psychology** and the **Center for Cognitive Science of Turin University** since 1990.
- Working on joint research projects between Italy and the U.S.A and, as part of this collaboration, Visiting Research Fellow - laboratory of Prof. Philip Johnson-Laird (**Department of Psychology, Princeton University** and **Department of Psychology, New York University**) since 1987 till present.
- Collaboration with the **Computer Science Department, Turin University** since 2009.
 - Initially in a project involving also the **Polytechnic of Turin** and the **Multimedia Park of Turin** (ATLAS project).
 - From 2020 until 2023 with also the **Polytechnic of Turin** and the **Royal Holloway University** (SMAILE project).
 - From 2023 with also the **Piemonte Orientale University** and **Napoli Federico II University** (AI-Leap project).
- Collaboration with **the Navy Center for Applied Research in Artificial Intelligence, Naval Research Lab**, Washington, DC (Dr. Sangeet S. Khemlani)
- Collaboration with the **Department of Psychology, University of Social Sciences and Humanities, Warsaw** (Prof. Robert Mackiewicz)
- Collaboration with the **School of Life Sciences (Faculty of Health Sciences) of University of Hull** (Prof. Giuliana Mazzoni), now **Università di Roma Sapienza**.
- Collaboration with **Brain and Cognition of Katholieke Universiteit Leuven** (Prof. Walter Schaeken)

Coordination of Research Groups

- Since 2019 is the coordinator of the LRR research group (Learning, Reasoning, Remembering group) of the Department of Psychology of Università di Torino.
Link: https://dippsych.campusnet.unito.it/do/gruppi.pl/Show?_id=h354

Main Research activity

The role of kinematic mental simulation in

- perception and memory of observed actions
- deductive reasoning and abductive reasoning (informal algorithms)
- deception and counterfactual thinking

Deontic reasoning and deontic beliefs

How to promote the understanding of artificial intelligence concepts

Reviewer for International Peer Reviewed Journals: Acta Psychologica; Applied Cognitive Psychology; Cognition; Cognition & Emotion; Cognitive Development; Cognitive Processing; Cognitive Science; Developmental Psychology; European Journal of Cognitive Psychology; European Journal of Social Psychology Journal of Cognitive Psychology, Journal of Cognitive Science; Journal of Experimental Psychology Learning, Memory, and Cognition; Journal of Pragmatics; Judgment and Decision Making; Memory & Cognition, Philosophical Psychology, PlosOne; Quarterly Journal of Experimental Psychology; Review of Contemporary Philosophy, The Journal of Genetic Psychology ; Thinking & Reasoning.

Reviewer for Agence Nationale de la Recherche Year 2019

Reviewer for the Research Foundation Flanders (FWO) Years 2011, 2012, 2018.

ERC Remote Referee for Horizon 2020 Framework Programme Years 2016 –

ERC Remote Referee for Advanced Grant 2018 Call

ERC Remote Referee for Advanced Grant 2020 Call

Reviewer per F.R.S.-FNRS Fonds de la Recherche Scientifique Year 2017

Reviewer per National Science Centre, Poland Year 2017

Reviewer for the Italian Ministry for Education, University and Research (MIUR) Years 2012, 2013, 2014, 2015

Reviewer applications for RTD projects at University of Florence Year 2020

National and international grants

2023-2025 Co PI of the 2022 Prin project involving the University of Roma “La Sapienza”, the University of Turin, the University of Bari Aldo Moro (*When the body tricks the mind: movement, action and touch as determinants of memory illusions*).

2023-2025 Researcher for the Department of Psychology in AI-LEAP project (*Learning Personalization with AI and of AI*), funded by Compagnia di San Paolo, involving the University of Turin, the University of Piemonte Orientale, University of Napoli Federico II.

2020-2022 PI for the Department of Psychology in SMILE project (*Simple Methods for Artificial Intelligence Learning and Education*), funded by Compagnia di San Paolo, involving the Polytechnic of Turin, University of Turin (Computer Science Department and Psychology Department), Royal Holloway University of London (Department of Computer Science).

2014-2016 Partner in a Research Project within a Framework Cooperation Agreement between the Department of Psychology, University of Social Sciences and Humanities, Warsaw, the Navy Center for Applied Research in Artificial Intelligence, Naval Research Lab, Washington, DC, the Department of Psychology of Princeton University and the Department of Psychology of New York University (*Space to reason. The role of visual displays and gestures in deductive reasoning*). Total grant: 132.000 Euro.

2010-2013 Co PI of the Prin project involving the Departments of Psychology of Turin University, Pisa University, Bologna University, Milano-Bicocca University, IUAV Venezia, Università Cattolica del Sacro Cuore (Problem solving and decision making: logical, psychological and neuroscientific aspects within criminal justice). Total grant: 720.061 Euro.

2010-2013 Co PI in a three years project funded by Regione Piemonte, call Human Sciences (INBEMA: Institutions, behavior and markets in local and global settings), Unit involved: Psychology Department, University of Turin. Total grant: 79.000 Euro.

2009-2012 PI for the Department of Psychology in the ATLAS project (*Automatic Translation into Sign Languages*), funded by Regione Piemonte, involving the Polytechnic of Turin, University of Turin (Computer Science Department and Psychology Department), RAI (Italian National Television), BEPS Engineering, Lumiq Studios, CSP and Microsoft Innovation Center. Total grant: 4.418.000 Euro; Grant to the Psychology Unit: 216.000 Euro.

2006-2008 Co PI in a two years project funded by Fondazione CRT of Torino (Construction and validation of the CD Rom for the assessment of communicative abilities), Unit involved: Psychology Department, University of Turin.

2004-2006 Co PI of the Prin project involving the Departments of Psychology of Turin University, the Second University of Naples, the Polytechnic of the Marche, the Universities of Genoa and Calabria (Mathematical modeling of natural and artificial behavior). Total grant: 120.000 Euro; Grant to the Turin University Unit: 28.000 Euro.

2002-2005 Co PI in a three years project funded by M.I.U.R., FIRB project (Assessment of communication disorders in a rehabilitative perspective).

1999-2000 Co PI in the “Cofinanziamento ex-quota 40%” project involving the Departments of Psychology of Turin and Padua Universities, and the Department of Sciences and Advanced Technology of the University of Eastern Piedmont (Reasoning processes and mental models: The case for spatial inferences).

National and international acknowledgments

National acknowledgments

President of Center for Logic, Language, and Cognition, University of Turin

Member of Editorial Boards of National Peer Reviewed Journals:

2013 - *Giornale Italiano di Psicologia* (national journal)

2017 - *La Mente e i Sistemi Cognitivi: Collana di Scienze cognitive, Filosofia e Tecnologia*
(national editorial series)

International acknowledgments

Member of Editorial Boards of International Peer Reviewed Journals

2016 - 2018 Memory & Cognition (Consulting Editor at Springer)
2017- Journal of Cognitive Psychology (Editorial Assistant at Taylor & Francis)
2018 – Memory & Cognition (Associate Editor at Springer)

2013 - External Examiner of Ph.D. thesis in Psychology, School of Psychology, Trinity College, Dublin.

2020 – External Examiner in a mid-term Ph.D student evaluation, Faculty of Psychology and Educational Sciences, Leuven

Invited presentations to internationally established conferences

- Journée d'Etudes Université de Toulouse Le Mirail, Pragmatique et développement des habiletés conversationnelles, Toulouse, France, 13 May 2005 (Invited talk: “Sort of mental representations and complexity of inferential chains account for the emergence of linguistic and extralinguistic pragmatic abilities”).
- International Workshop on Psychodeontic, Genova, Italy, 4th-5th December 2016 (Invited talk: “Deontics: meaning, reasoning, and emotion”)
- Irish Conference on Artificial Intelligence and Cognitive Science, Dublin, Trinity College, 6th-7th December 2018 (Key-note speaker: “Informal algorithms in children”).
- British Psychological Society Conference – Cognitive Section, Brighton, University of Sussex, 7th-9th September 2022 (Key-note speaker: “Why are we so sure we are right? The role of emotion in maintaining and revising beliefs”).
- International Moral Psychology Seminar Series, online seminars, 4 December 2023 (Invited talk: “To believe is to like”).

Organization of international conferences

- Chair (with B.G. Bara and L. Barsalou) of the World Conference of the Cognitive Science Society, XXVII Annual Meeting of the Cognitive Science Society, Stresa, July 21st-23rd, 2005.
- Program Committee Member of DECALOG: the 2007 Workshop on the Semantics and Pragmatics of Dialogue, University of Trento, Italy, May 30st-June 1st 2007.
- Program Committee Member of the World Conference of the Cognitive Science Society
 - Berlin, July 31st -August 3rd 2013
 - Quebec City, Canada, July 23rd -26th 2014
 - Pasadena, July 23rd -25th 2015
 - Philadelphia, Pennsylvania, 10th -13th August 2016.
 - Toronto, Canada, 27th-30th July 2022.
 - Sydney, Australia, 26th-29th July 2023.
 - Rotterdam, the Netherlands, 24th-27th July 2024
- Program Committee Member of the EuroAsianPacific Joint Conference on Cognitive Science, Torino, 25th – 27th September 2015.

- Program Committee Member of SemDial 2020 (The 24th Workshop on the semantics and pragmatics of dialogue) Brandeis University, Waltham, MA, 17-19 July 2020
- Program Committee Member of PSYCHOBIT 2021 (The 3rd Symposium on Psychology-Based Technologies), Napoli, 4-5 October 2021
- Program Committee Member XPRAG 2022 (University School for Advanced Studies IUSS in Pavia (Italy), on September 22-23, 2022.
- Organizer of a meeting in honor of Phil Johnson-Laird, University College, London, July 20th - July 21st 2023.

Public engagement

16 January 2019, article on TuttoScienze (La Stampa, national), on informal algorithms in children

[https://www.lastampa.it/2019/01/16/scienza/baby-programmatori-di-computer-giocando-con-il-trenino-di-legno-](https://www.lastampa.it/2019/01/16/scienza/baby-programmatori-di-computer-giocando-con-il-trenino-di-legno-Gr7ZII6HEyj7PuQoP6a3dM/premium.html?fbclid=IwAR2D5uR4xJ91vJTWzf_BCSLtYoopDpENNMCCQEPmjzIETVT1k5YNfR24bAk)

[Gr7ZII6HEyj7PuQoP6a3dM/premium.html?fbclid=IwAR2D5uR4xJ91vJTWzf_BCSLtYoopDpENNMCCQEPmjzIETVT1k5YNfR24bAk](https://www.lastampa.it/2019/01/16/scienza/baby-programmatori-di-computer-giocando-con-il-trenino-di-legno-Gr7ZII6HEyj7PuQoP6a3dM/premium.html?fbclid=IwAR2D5uR4xJ91vJTWzf_BCSLtYoopDpENNMCCQEPmjzIETVT1k5YNfR24bAk)

25 August 2019, article on Lettura (Corriere della Sera), on beliefs and emotions

<https://www.pressreader.com/italy/corriere-della-sera-la-lettura/20190825/281599537159409>

3 February 2020, presentation of the book “Il fascino dell’emozione: Da Platone alle neuroscienze, per una comprensione dei sentimenti” of Marco Menin, as part of the series “Filosofia e vita quotidiana” Circolo dei lettori, Torino

2 September 2020, interview by Radio Orizzonti in Blu Saronno, concerning reasoning

https://drive.google.com/file/d/1VEN8-aTXGs3N7JgJf75_BOow1z5NZORK/view?usp=sharing

26 July 2021, Master class: L’intelligenza artificiale imparata in modo naturale, Giffoni Film Festival 2021

<https://www.giffonifilmfestival.it/news-giffoni-experience/item/9077-a-next-generation-ecco-smaile-il-progetto-che-rende-l-intelligenza-artificiale-a-portata-di-bambini.html>

18 May 2022, interview by RAI (TGR Piemonte) about the SMILE project (funded by the Compagnia di San Paolo), whose purpose is to evaluate the effectiveness of a training in favoring the acquisition of basic AI concepts. <https://www.rainews.it/tgr/piemonte/notiziari/video/2022/05/TGR-Piemonte-del-19052022-ore-1400-774403d7-a405-44c7-a4eb-1900a4696c90.html>

20 May 2022, as part of the SMILE project (funded by the Compagnia di San Paolo), we offered workshops at the Turin Book Fair (Salone del Libro di Torino) as part of the Bookstock programme to help children between the ages of 9 and 11 discover Artificial Intelligence (Lab#3, Lab#4).

<https://www.facebook.com/ufficiostampamartafranceschetti/posts/vi-aspettiamo-al-salone-del-libro-di-torino-con-i-laboratori-di-smaile-simple-me/1917845128415543/>

24 May 2022, interview by RAI (TG Leonardo) about the SMILE project (funded by the Compagnia di San Paolo), whose purpose is to evaluate the effectiveness of a training in favoring the acquisition of basic AI concepts. <https://www.rainews.it/tgr/piemonte/video/2022/03/torino-lintelligenza-artificiale-tra-i-banchi-4faa784a-b4fc-4398-a35c-789fef41ac62.html>

30 September 2022, within UNIGHT, two workshops (Artificial Intelligence explained without Artificial Intelligence) were proposed on activities developed within the EmpAI project. The workshops are fun activities for children and young people that do not involve technical devices. The topics addressed in the proposed labs relate to concepts related to artificial intelligence and, in particular, 1) planning concepts with the presence of constraints and optimization functions and 2) reasoning by goals and goals revision based on knowledge about the world. <https://unightproject.eu/it/eventi/torino-notte-2022?day=1664496000&city=Torino&location=233&sort=default>

MONICA BUCCIARELLI
LIST OF PUBLICATIONS

International Journals

- Bara B., Bucciarelli M. & Johnson-Laird P. N. 1995.
The development of syllogistic reasoning.
The American Journal of Psychology, 108, 2, 157-193.
- Bara B. & Bucciarelli M. 1997.
The reason we reason.
Current Psychology of Cognition, 16, 1-2, 63-69.
- Bara B. & Bucciarelli M. 1998.
Language in context: The Emergence of Pragmatic Competence.
Special Issue of Analise Psicologica: Cognition in Context, pp. 317-345. Quelhas, A. C. and Pereira, F. (Eds.).
Istituto Superior de Psicologia Aplicada, Lisboa.
- Bara B., Bosco F. M. & Bucciarelli M. 1999.
Developmental pragmatics in normal and abnormal children.
Brain & Language, 68, 507-528.
- Bucciarelli M. & Johnson-Laird P. N. 1999.
Strategies in syllogistic reasoning.
Cognitive Science, Vol. 23 (3), 247-303.
- Bara B. & Bucciarelli M. 2000.
Deduction and Induction: Reasoning through mental models.
Mind & Society, Vol.1, 95-108.
- Bara B., Bucciarelli M. & Geminiani G. 2000.
Development and decay of extra-linguistic communication.
Brain & Cognition, 43, 1-3.
- Bucciarelli M. 2000.
Reasoning strategies in syllogisms: Evidence for performance errors along with computational limitations.
Behavioral & Brain Sciences, Vol. 23, n. 5, 669-670.
- Bucciarelli M. 2000.
Reasoning by categories in the Wason selection task.
Psychology, 11 (55).
- Bara B., Bucciarelli M. & Colle L. 2001.
Communicative abilities in autism: Evidence for attentional deficits.
Brain & Language, 77, 216-240.
- Bara B., Bucciarelli M. & Lombardo V. 2001.
Model Theory of Deduction: A unified computational approach.
Cognitive Science, 25, 839-901.
- Bucciarelli M. & Johnson-Laird P.N. 2001.
Falsification and the role of the theory of mind in the reduced array selection task.
Current Psychology Letters: Behavior, Brain & Cognition, 4, 7-22.
- Bucciarelli M., Colle L. & Bara B.G. 2003.
How children comprehend speech acts and communicative gestures.
Journal of Pragmatics, 35, 207-241.

- Bosco F., Bucciarelli M. & Bara B.G. 2004.
The fundamental context categories in understanding communicative intentions.
Journal of Pragmatics, 36, 467-488.
- Bucciarelli M. & Johnson-Laird P.N. 2005.
Naïve deontics: a theory of meaning, representation, and reasoning.
Cognitive Psychology, Vol. 50, 2, 159-193.
- Bosco F.M., Bucciarelli M. & Bara B.G. 2006.
Recognition and repair of communicative failures: A developmental perspective.
Journal of Pragmatics, 38, 1398-1429.
- Cutica I., Bucciarelli M. & Bara B.G. 2006.
Neuropragmatics: Extralinguistic Pragmatic Ability is Better Preserved in Left-Hemisphere-Damaged Patients than in Right-Hemisphere-Damaged Patients.
Brain & Language, 98, 12-25.
- Bucciarelli M. 2007.
How the construction of mental models improves learning
Mind & Society, issue 1, vol. 6, 67-89.
- De Marco, I., Colle L. & Bucciarelli M. 2007.
Linguistic and extralinguistic communication in deaf children.
Journal of Pragmatics, 39, 134-158.
- Adenzato M. & Bucciarelli M. 2008.
Recognition of mistakes and deceits in communicative interactions.
Journal of Pragmatics, 40 (4), 608-629.
- Bosco F.M. & Bucciarelli M. 2008.
Simple and complex deceits and ironies.
Journal of Pragmatics, 4, 583-607.
- Bucciarelli M., Khemlani S., Johnson-Laird P.N. 2008.
The psychology of moral reasoning.
Judgment and Decision Making, vol.3 (2), 121-139.
- Cutica I. & Bucciarelli M. 2008.
The deep versus the shallow: Effects of co-speech gestures in learning from discourse.
Cognitive Science, 32, 921-935.
- Sacco K. & Bucciarelli M. 2008.
The role of cognitive and socio-cognitive conflict in learning to reason.
Mind & Society, 7, 1-19.
- Bosco F.M., Vallana M., & Bucciarelli M. 2009.
Comprehension of communicative intentions: The case of figurative language.
Journal of Cognitive Science, vol.10 (2), 245-277.
- Bucciarelli M. 2010.
Proffering a discourse in different communicative contexts.
Journal of Pragmatics, 42, 1311-1320.
- Vendrame M., Cutica I., & Bucciarelli M. 2010.
“I see what you mean”: Oral deaf individuals benefit from speaker’s gesturing.
The European Journal of Cognitive Psychology, 22, 4, 612-639.

- Khemlani S.S., Lee N.Y.L., & Bucciarelli M. 2010.
Determinants of cognitive variability.
Behavioral & Brain Sciences, vol.33, issue 2-3, 97-98.
- Cutica, I. & Bucciarelli, M. 2011.
"The more you gesture, the less I gesture": Co-speech gestures as a measure of mental model quality.
Journal of Nonverbal Behavior, 35, 173-187.
- Bosco, F.M., Vallana, M. & Bucciarelli, M. 2012.
The inferential chain makes the difference between familiar and novel figurative expressions.
Journal of Cognitive Psychology, 24 (5), 525-540.
- Cutica, I. & Bucciarelli, M. 2013.
Cognitive change in learning from text: Gesturing enhances the construction of the text mental model.
Journal of Cognitive Psychology, 25,2, 201-209.
- Khemlani, S.S., Mackiewicz, R., Bucciarelli, M., & Johnson-Laird, P.N. 2013.
Kinematic mental simulations in abduction and deduction.
Proceedings of the National Academy of Sciences of the United States of America, 110, 16766-16771.
- Cutica, I., Iani, F., & Bucciarelli, M. 2014.
Learning from text benefits from enactment.
Memory & Cognition, 42, 1026-1037.
- Bucciarelli, M. & Daniele, M., 2015.
Reasoning in moral conflicts.
Thinking & Reasoning, 21, 265-294.
- Cutica, I. & Bucciarelli, M. 2015.
Non-determinism in the uptake of gestural information.
Journal of Nonverbal Behavior, 39, 289-315 doi: 10.1007/s10919-015-0215-7
- Bucciarelli, M. 2015.
Moral dilemmas in females: children are more utilitarian than adults.
Frontiers in Psychology: Cognition, doi: 10.3389/fpsyg.2015.01345
- Bucciarelli, M., Mackiewicz, R., Khemlani, S.S., & Johnson-Laird, P.N. 2016.
Children's creation of algorithms: Simulations and gestures.
Journal of Cognitive Psychology, 28(3), 297-318. doi: 10.1080/20445911.2015.1134541
- Iani, F., & Bucciarelli, M. 2017.
Mechanisms underlying the beneficial effect of a speaker's gestures on the listener.
Journal of Memory and Language, 96, 110-121.
- Iani, F., Cutica, I., & Bucciarelli, M. 2017.
Timing of gestures: Gestures anticipating or simultaneous with speech as indexes of text comprehension in children and adults.
Cognitive Science, 41(6), 1549-1566.
- Iani, F., Mazzoni, G., & Bucciarelli, M. 2018.
The role of kinematic mental simulation in creating false memories.
Journal of Cognitive Psychology, 30(3), 1-15. <https://doi.org/10.1080/20445911.2018.1426588>
- Iani, F., & Bucciarelli, M. 2018.
Relevance of the listener's motor system in recalling phrases enacted by the speaker.
Memory, 26(8), 1084-1092.
- Iani, F., Burin, D., Salatino, A., Pia, L., Ricci, R., & Bucciarelli, M. (2018).

- The beneficial effect of a speaker's gestures on the listener's memory for action phrases: The pivotal role of the listener's premotor cortex.
Brain & Language, 180-182, 8-13. <https://doi.org/10.1016/j.bandl.2018.03.001>
- Bucciarelli, M., Mackiewicz, R., Khemlani, S.S., & Johnson-Laird, P.N. 2018.
Simulation in children's conscious recursive reasoning
Memory & Cognition, 46, 1302- 1314. doi 10.3758/s13421-018-0838-0
- Iani, F., Foadelli, A., & Bucciarelli, M. 2019
Mnemonic effects of action simulation from pictures and phrases
Acta Psychologica, 194, 37-50.
- Bucciarelli, M., & Johnson-Laird, P.N, 2019.
Emotions and beliefs about morality can change one another.
Acta Psychologica, Vol. 198, Article 102880.
- Bucciarelli, M., & Johnson-Laird, P.N. 2019.
Deontics: meaning, reasoning, and emotion.
Materiali per una storia della cultura giuridica, 1, 89-112.
- Johnson-Laird, P.N., & Bucciarelli, M. 2019.
A reply to Ratti and Brigaglia and Celano's comments on deontics: meaning, reasoning, and emotion.
Materiali per una storia della cultura giuridica, 1, 153-162.
- Iani, F., Limata, T., Bucciarelli, M., & Mazzoni, G. 2020.
Children's kinematic false memories.
Journal of Cognitive, Psychology, 32, 479-493.
- Bucciarelli, M., & Johnson-Laird, P.N. 2020.
Beliefs and emotions about social conventions.
Acta Psychologica, Vol. 210, Article 103184.
- Iani, F., Limata, T., Mazzoni, G., & Bucciarelli, M. 2021.
Observer's body posture affects processing of other humans' actions.
Quarterly Journal of Experimental Psychology, 74(9), 1595-1604.
<https://doi.org/10.1177/17470218211003518>
- Johnson-Laird, P. N., Bucciarelli, M., Mackiewicz, & Khemlani, S. S. 2021.
Recursion in programs, thought, and language. *Psychonomic Bulletin & Review*, 29, 430-454. Doi:
10.3758/s13423-021-01977-y
- Bucciarelli, M., Mackiewicz, R., Khemlani, S. S. & Johnson-Laird, P. N. (2022). The causes of difficulty in children's creation of informal programs. *International Journal of Child-Computer Interaction*, 31, 100443
- Iani, F., Limata, T., Bucciarelli, M., & Mazzoni, G. (2022). The implicit effect of action mental simulation on action evaluation. *Quarterly Journal of Experimental Psychology*, Doi:10.1177/17470218221091096
- Limata, T., Iani, F., & Bucciarelli, M. (2022). Story order in attribution of moral responsibility. *Language and Cognition*, 4(2), 228-248. <http://doi.org/10.1017/langcog.2022.4>
- Zara, G., Veggi, S., Iani, F. & Bucciarelli, M. (2022). Looking at the moral judgments of offenders through new lenses. *Journal of Criminal Psychology*, 12(4), 90-110 DOI 10.1108/JCP-04-2022-0010
- Iani, F., Schaeken, W., Ras, I.N., & Bucciarelli, M. (2022). Motor imagery and engagement favour spatial reasoning. *Memory & Cognition*, 51, 1103-1114. 10.3758/s13421-022-01383-2
- Limata, T., Bucciarelli, M., Schimdt, S., Tinti, C., Ras, I.N., & Iani, F. (2023). Action and posture influence the retrieval of memory for objects. *Memory*, 31(5), 652-664. 10.1080/09658211.2023.2185933

Iani, F., Limata, T., Ras, I.N., & Bucciarelli, M. (2023). Forward effects from action observation: Evidence for a specific role for objects in anticipation of action. *Psychological Research*, <https://dx.doi.org/10.1007/s00426-023-01888-8>

International Proceedings

Bara B., Bucciarelli M., Johnson-Laird P.N. & Lombardo V. 1994.
Mental models in propositional reasoning.

Proceedings XVI Conference of the Cognitive Science Society, Georgia, 15-20.

Blanzieri E. & Bucciarelli M. 1996.

The evaluation of the communicative effect.

Proceedings XVIII Conference of the Cognitive Science Society, San Diego, 501-506.

Blanzieri E., Bucciarelli M. & Peretti P. 1996.

Sentences and mental states in attributing intentions: Modeling their cognitive balance.

Proceedings of the First European Workshop on Cognitive Modeling, Berlin University of Technology, 230-234.

Geminiani G. & Bucciarelli M. 1998.

Deductive reasoning in right-brain damaged.

Proceedings of the XX Conference of the Cognitive Science Society, Madison, 386-391.

Bara B., Bosco, F.M. & Bucciarelli M. 1999.

Simple and complex speech acts: What makes the difference within a developmental perspective.

Proceedings of the XXI Conference of the Cognitive Science Society, Vancouver, 55-60.

Bara B., Bucciarelli M. & Colle L. 1999.

Pragmatic competence in autism.

Proceeding of the European Conference on Cognitive Science, 389-392.

Sacco K., Bucciarelli M. & Adenzato M. 2001.

Mental models and the meaning of connectives: a study on children, adolescents and adults.

In: J.D. Moore & K. Stenning (Eds.), *Proceedings of the XXIII Annual Conference of the Cognitive Science Society*, 875-880. Edinburgh, Scotland: Lawrence Erlbaum Associates.

Bosco F., Bucciarelli M. & Bara B.G. 2003.

Literal meaning and context categories in the attribution of communicative intentions: A developmental study.

Proceedings of the XXIV Annual Conference of the Cognitive Science Society, CD-ROM Produced by x-CD Technologies, 162-167.

Cutica I., Bara B.G. & Bucciarelli M. 2003.

Extralinguistic pragmatic ability in right focal brain damaged patients

Proceeding of the European Conference on Cognitive Science, 97-102.

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