

ANNA M. BORGHI CURRICULUM VITAE

SHORT VERSION

Anna Maria Borghi has a Master in Philosophy and a PhD in Psychology (1997). She was researcher at the University of Bologna from 1999 to 2005. In October 2005 she became associate professor in Psychology at the same university (M/PSI-01). In 2013 and 2014 she has obtained the National Scientific Qualification (idoneita) as Full Professor. Since 9 January 2017 she is associate professor at Sapienza University of Rome.

Since 2001 she is also associate researcher at the Institute of Sciences and Technologies of Cognition, CNR, Rome.

She was visiting scholar in some American universities: 1994 and 1996, University of Chicago (collaboration with prof. Larry Barsalou), 2000 and 2001, Emory University, Atlanta (collaboration with prof. Larry Barsalou), 2002, University of Wisconsin, Madison (collaboration with prof. Art Glenberg). She is fellow of the Einstein Group (Berlin School of Mind and Brain).

Editorial activity.

She is associate editor of the journals *Frontiers in Psychology*, *PeerJ*, and *Psychological Research*, she is in the editorial board of the journal *Sistemi Intelligenti* and in the board of reviewers of the journal *Cognitive Science*. She is occasional reviewer of many journals, as it can be seen here: <https://publons.com/author/201065/anna-m-borghi#profile>. She is also occasional reviewer for some international funding agencies: National Science Foundation, Research Council (UK), Dutch NWO, Agence National de la Recherche (France), Research Council of Canada, National Institute for Health(Usa).

Anna has been editor of special issues on the journals *Neuropsychologia* (Sense of body: A.Tessari, A.Serino, M. Tsakiris, A.M. Borghi, 2010), *Sistemi intelligenti* (Social Cognition: A.M. Borghi, F. Caruana *Sistemi Intelligenti*, 2011), *Cognitive Semiotics* (Intersubjectivity: P. Demuru, R. Fusaroli, A.M. Borghi, 2012), *Frontiers in Psychology* (Embodied and grounded cognition: A.M. Borghi, D. Pecher, 2011; Embodied cognition over the lifespan: A.Setti, A.M. Borghi, current), *Frontiers in Human Neuroscience* (Affordances and limb apraxia: A. Pellicano, F. Binkofski, A.M. Borghi, 2015), *Topics in Cognitive Science* (Action-language integration: A. Cangelosi, A.M. Borghi, 2014).

Coordination, organizational and supervisor activity

She was twice local coordinator of PRIN; in addition, she has coordinated the European project ROSSI, Emergence of Communication in RObots through Sensorimotor and Social Interaction (FP7, call Cognitive Systems).

Since 2005 she has supervised 5 post-docs and 5 graduate students, has organized many symposia in international conferences and has co-organized two international summer schools.

Research

Her research interests, moving from an embodied and grounded cognition perspective, concern the relationships between categorization, language and action. She works on objects affordances, on affordances and sense of body, on language and affordances, on abstract concepts. She conducts mostly behavioral research (response times recording, kinematics); in collaboration with other researchers she has occasionally performed TMS and fMRI studies and has carried out computational studies with neural networks simulations. Her work has resulted in more than 146 publications, including books, book chapters, conference proceedings and articles (83 of which in refereed international journals).

EXTENDED VERSION**PERSONAL INFORMATION**

Family name, First name: Borghi Anna Maria, Researcher unique identifier(s) (orcid.org/0000-0001-9455-8408); SCOPUS ID: 7101872511.

<http://scholar.google.com/citations?user=yIEWFyYAAAAJ&hl=en>

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Secondary appointment: (associate researcher)

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EDUCATION

1993-1996 PhD in Experimental Psychology, Department of Psychology, University of Bologna, Italy

1988-1990 PHD courses in Germanistics, History and Philosophy, University of Freiburg, Germany

1983-1987 Master in Philosophy, Marks: 110/110, summa cum laude, University of Bologna, Italy

CURRENT POSITIONS

2013, 2014– National Scientific Qualification (idoneita') as Full Professor; 5/5 referees agreed to qualification.

2017-current Associate Professor in Psychology, Department of Dynamic and Clinical Psychology, Sapienza University of Rome, Italy

2001 – current Associate Researcher, Institute of Cognitive Sciences and Technologies, CNR, Rome, Italy

PREVIOUS POSITIONS

2005 – 2016 Associate Professor in Psychology, Department of Psychology, University of Bologna, Italy

1999 – 2005 Assistant professor (ricercatore), Department of Psychology, University of Bologna, Italy

2002 Visiting Scholar University of Wisconsin, Madison, US (referent: prof. A. Glenberg)

1999, 2001 Visiting Post-Doc Emory University, Atlanta, USA (referent: prof. L. Barsalou)

1998 Visiting Scholar UNED University, Madrid, Spain (referent: prof. H.Peraita)

1994, 1995 Visiting PhD student University of Chicago, USA (referent: prof. L. Barsalou)

FELLOWSHIPS AND AWARDS

1992-1996 PhD grant; 1998-99: post-doc grant

- 1999 Short term mobility CNR grant. Spent in Emory University, USA (L. Barsalou)
 2002 Marco Polo grant, University of Bologna – spent in Wisconsin University
 (A.Glenberg)

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

2007 – 2016 Department of Psychology, University of Bologna, Italy: 5 Post-docs, 5 PhD students; an average of 20 theses a year.

People who were in our lab (EMCOLAB) have now post-doc or researcher positions in a variety of European labs: Filomena Anelli, post-doc, University of Bologna (prof. F. Frassinetti); Daniele Caligiore (ISTC-CNR, Rome, dr. G. Baldassarre); Pierre Jacquet, post-doc (University Paris Descartes); Andrea Flumini, post-doc, University of Granada (prof. J.Santiago); Claudia Gianelli, researcher, University of Potsdam (prof. M.Fischer); Antonello Pellicano, post-doc, Aachen University (prof. F.Binkofski); Mariagrazia Ranzini, post-doc, University of Leuven; Claudia Scorolli, Post-doc, Univ. of Bologna (prof. Chattat).

TEACHING ACTIVITIES

1997-1999 – Teacher – Seminars for PhD students on Concepts, University of Bologna, Italy
 Courses as assistant professor (1999-2004) or associate professor (2005-current) (except maternity leave):

1999-2008 Psychol. of Learning and Memory, School High School Teachers, University of Bologna, Italy

2002-2017 Cognitive Psychology, University of Bologna, Italy

2003-2009 General Psychology, University of Bologna, Italy

2009-2017 Psychology of intercultural communication, University of Bologna, Italy

2001-2006; 2008-current Laboratory of Cognitive Processes, University of Bologna, Italy

2014-2017 – Psychology of memory, University of Bologna, Italy

2017-2018 – Cognition, body and culture – Sapienza University of Rome

2017-2018 – General psychology – Sapienza University of Rome

Courses taught as External professor:

2008-2010 – General Psychology, Faculty of Medicine, University of Trieste, Italy

2009-2010 – Embodied and Grounded Cognition (in English), Warsaw Univ., Poland –with J. Rączaszek

2009-2010 – Embodied mind and language (in English), Venice Internat. Univ., Italy, with D. Zaefferer

ORGANISATION OF SCIENTIFIC MEETINGS (selection)

I have tried to promote embodied and grounded cognition in its multidisciplinary aspects, including philosophy, robotics, neuroscience, psychology, both with students (summer schools) and with colleagues:

2005 A.M.Borghi, S.Ghirlanda: Summer School Neural network models of perception, action and embodied knowledge (University of Bologna, July 2005. (among the participants: L. Barsalou, L. Craighero, R. Ellis, M. Enquist, M. Gentilucci, A. Glenberg, R. Goldstone, S. Nolfi, D. Parisi, M. Zorzi)

2006 Lucia Riggio, Anna Borghi: Organization of the symposium: Affordances: tra percezione e azione. Participants: Leonardo Fogassi, Lucia Riggio, Fabio Ferlazzo e Anna Borghi. AIP, sez. di Psicologia Sperimentale, Rovereto, September 13-15 2006.

2008 A. Serino, A. Tessari, A.M. Borghi, M. Tsakiris: Summer School The sense of body, Bologna, June 2008. Funded by the European Science Foundation (among the participants: S.M. Aglioti, P. Brugger, B. Coslett, E. Daprati, F. De Vignemont, V. Gallese, A. Iriki, M. Jeannerod, P. Haggard, E. Ladavas, D. Le grande, E. Macaluso, A. Maravita, F. Pavani, P. Rochat, A. Sirigu, M. Tsakiris).

2010 M.Fischer, A.M. Borghi. Symposium: Embodied Robotics: from Affordances to Action. Participants: G. Buccino, A. Cangelosi, R. Ellis, J. Goslin. 1rst Joint Conf. EPS & SEPEX, Granada, Spain.

2012 A.M. Borghi. Symposium Objects and action in the individual and social space: Affordances and embodied cognition. Participants: C. Sinigaglia, F. Binkofski, A.M. Borghi, O. Lindemann, Paulus, J. Stefanucci, S. Creem-Regehr. 5th Internat Conf. Spatial Cognition (ICSC): Space and Embodied Cognition. Rome, Italy.

2015 A.M. Borghi, L. Tummolini (2015). Symposium **Object, action and space.** Participants: Anna Borghi, Angelo Cangelosi, Harmen Gudde and Ken Coventry, Holger Diessel, Pia Knoeferle, Luca Tummolini, Virginia Volterra. 6th International Conference on Spatial Cognition (ICSC): Space and Situated Cognition. Rome, 7-11 September 2015.

2017. **A.M. Borghi, L. Tummolini.** Symposium "Concetti astratti: diversi tipi, molteplici rappresentazioni" Participants: Anna Borghi, Sara Dellantonio & Remo Job, Marta Ghio & Marco Tettamanti, Luca Tummolini. AIP sez. di Psicologia Sperimentale, Bari, September 20-22, 2017

Selected conference scientific committee to which I participated:

- March 2005. Scientific committee. II WORKSHOP ITALIANO DI VITA ARTIFICIALE. ROMA, ISTC-CNR. 3-5 MARZO 2005
- April 2006.
- Program Committee - iccm2006 The 7th International Conference on Cognitive Modeling – Trieste, Italy, 5-8 April 2006.
- September 2006. Scientific Committee. III WORKSHOP ITALIANO DI VITA ARTIFICIALE. Wiva3 - Siena, 12-15 settembre 2006.
- September 2006. Program Committee – From animals to animats 9. The Ninth International Conference on the Simulation of Adaptive Behavior (SAB '06, sab06), 25-29 September 2006, CNR, Rome, Italy
- November 2007. IV Convegno nazionale di Science cognitive. Rome, Italy.
- November 2008, November 2009. AISC (Italian Cognitive Science Society) conference, Turin, Neaples.
- Summer 2012. Program Committee – Embodied and Situated Language Processing ESLP 2012, Newcastle Upon Tyne, UK.
- InPACT (International Psychological Applications Conference and Trends) 2012.
- September 2012. Scientific Committee. 5th International Conference on Spatial Cognition (ICSC): Space and Embodied Cognition. Rome, 4-9 September 2012.
- IEEE committee ì: AMDTC Autonomous Mental Development Technical Committee. Task force on Language and Cognition.
- September 2015. Scientific Committee. 6th International Conference on Spatial Cognition (ICSC): Space and Situated Cognition. Rome, 7-11 September 2015.
- 2011; 2015. Cognitive Science Society (COGSCI).

INSTITUTIONAL RESPONSIBILITIES (selection)

2017-current—Faculty member, Sapienza University of Rome, Italy;
 1999-2016— Faculty member, University of Bologna, Italy;
 2016-current Member of the PhD Psychology and Social Neuroscience
 2010 – 2015 Member of the PhD Philosophy, science, cognition, and semiotics, University of Bologna
 2009-2010 – Governing board of the Department of Psychology, University of Bologna
 2008-2011 – Coordinator of the **FP7 Project ROSSI: Emergence of communication in RObots through Sensorimotor and Social Interaction**: a multidisciplinary project on concept and language grounding
 2015-current Member of the PhD Psychology and social neuroscience, Sapienza University of Rome
 2017-current member of the Governing Board of the Department of Dynamic and Clinical Psychology, Rome
 2017-current: PI of the project Abstract concepts, language and sociality, Sapienza University of Rome, Euro 34.500
 2017-current: FABBR funding, MIUR

COMMISSIONS OF TRUST (selection)

I have reviewed for many international funding agencies: NSF (National Science Foundation); NWO, Nederlandse Organisatie voor Wetenschappelijk Onderzoek; Natural Sciences and Engineering Research Council of Canada; NIH (National Institute of Health), USA; Engineering and Physical Sciences Research Council, UK; Agence National de la Recherche, France.

EDITORIAL ACTIVITY

- **Associate editor: Frontiers in Cognition** since 2010, **PeerJ** since 2014, **Psychological Research** since 2013.
- **Board:** Sistemi Intelligenti, RIFL; Teorie e Modelli. Board of Reviewers: Cognitive Science.
- **Editor of special issues:**
 - 1) 2010, **Neuropsychologia**: *The sense of body: A multidisciplinary approach to body representation*. A. Tessari, A. Serino, M. Tsakiris, **A.M. Borghi**;
 - 2) **Sistemi Intelligenti** (2011). A.M. Borghi, F. Caruana: *Social cognition*.
 - 3) **Cognitive Semiotics (2012)**. *Embodiment and intersubjectivity*. P. Demuru, R. Fusaroli, **A.M. Borghi**.
 - 4) **Frontiers in Cognition (2011)**. **A.M. Borghi**, D. Pecher: *Embodied and Grounded Cognition*.
 - 5) **Topics in Cognitive Science (2014)**. A. Cangelosi, **A.M. Borghi**: *Action language integration: from humans to cognitive robots*.
 - 6) **Frontiers in Human Neuroscience (2015)**. Antonello Pellicano, Ferdinand Binkofski, Anna Borghi, special issue Bridging the theories of affordances and limb apraxia
 - 7) **Frontiers in Cognition** (in preparation). Annalisa Setti, Anna Borghi: *Embodied*

Cognition over the Lifespan.

- 8) **Frontiers in Cognition** (in preparation). Zheng Jin, Maurizio Tirassa, Anna Borghi: *Beyond Embodied Cognition: Intentionality, Affordance, and Environmental Adaptation.*
 - 9) **Philosophical Transactions of the Royal Society B- biological sciences** (in preparation). Anna Borghi, Laura Barca, Ferdinand Binkofski and Luca Tummolini. *Varieties of abstract concepts: development, use, and representation in the brain.*
- **Reviewing activity:** (see recent reviews, more than 150, on <https://publons.com/search/?q=borghi+anna+maria>): Occasional reviewer for:
 - Acta Psychologica; Advances in Human-Computer interaction; Avant; Behavioral and Brain Research; Behavioral and Brain Sciences, Biolinguistics; Brain and Cognition; Brain and Language; British Journal of Experimental Psychology; Cerebral Cortex; Cognition; Cognitive Linguistics; Cognitive Science (Board of reviewers); Cognitive Systems Research; Experimental Brain Research; Experimental Psychology; European Journal of Cognitive Psychology; European Journal of Neuroscience; European Journal of Social Psychology; Frontiers in neurorobotics; Frontiers in Cognition; Frontiers in Cognitive Science; Frontiers in Human Neuroscience; Frontiers in Behavioral Neuroscience; Giornale Italiano di Psicologia; Human Brain Mapping; International Journal of Behavioral Development; Journal of Cognitive Neuroscience; Journal of Cognitive Psychology; Journal of Experimental Psychology: General; Journal of Experimental Psychology: Human Perception and Performance; Journal of Experimental Psychology: Learning, Memory & Cognition; Journal of Experimental Social Psychology; Journal of Memory and Language; Journal of Mental Imagery; Journal of Neurolinguistics; Learning and Instruction; Neuroimage; Neuropsychologia; New Ideas in Psychology; Perception Science; PLoS ONE ; Proceedings of the Royal Society B: biological sciences; Proceedings of the Cognitive Science Society (reviewer and meta-reviewer); Proceedings of the European COGSCI; Proceedings of EPIROB2013 (meta-reviewer); Psychological Research; Psychonomic Bulletin & Review; Quarterly Journal of Experimental Psychology; Robotics and autonomous systems; Topics in Cognitive Science; Topoi.

MEMBERSHIPS OF SCIENTIFIC SOCIETIES

2008-current – Member, Cognitive Science Society;
 2008-2014 ESCOP – Europ. Society of Cognitive Psychology
 2005-current Associazione Italiana di Psicologia AIP; Associazione Italiana di Scienza Cognitiva (AISC) – founding member; 2008-2011 AISC governing board
 2012-current IEEE AMDTC (Autonomous Mental Development Technical Committee)

MAJOR COLLABORATIONS

I collaborate and have collaborated with researchers who are experts on key issues relevant for the project. I will list below only people with whom I have common publications or ongoing collaborations, who do not belong to my institutions (Sapienza, ISTC-CNR) and who were not students/post-docs in my lab: *L. Barsalou*, Emory Univ., USA: categorization; *F. Binkofski*, Aachen Univ. Germany: affordances, abstract concepts; *G. Buccino*, Univ. of Catanzaro, Italy: language and sensorimotor system; *L. Buxbaum*, Moss Rehabilitation Research Institute, Philadelphia, USA: affordances; *A. Cangelosi*, Plymouth Univ., UK language and action –; *F. Chersi*, University College London, UK.: language and modelling; *M. Costantini*, Univ. of

Exeter,UK: affordances, language and simulation; *L. Colzato* Univ of Leiden, Holland: influence of religion on cognitive processes; *V. Gallese*, Univ. of Parma,. Italy: embodiment and emotions; *A. Glenberg*, Arizona State Univ., USA: language grounding in the sensorimotor system; *B. Hommel*, Univ of Leiden, Holland: influence of religion on cognitive processes; *T. Iachini*, Univ. of Naples 2, Italy: categorization, space; *C. Iani, S.Rubichi*, Univ. of Modena and Reggio Emilia, Italy: compatibility effects -; *S. Kalenine*: University of Lille, France: categorization and action; *M. Kaschak*, Florida State University, USA: language grounding in the sensorimotor system, *D. Pecher*, Erasmus Univ., The Netherland: grounded cognition - *P. Ricciardelli*, University of Milan Bicocca, Italy: motor resonance - *L. Riggio*, Univ. of Parma, Italy: language and affordances - *E. Sahin, S. Kalkan*: Middle East technical Univ., Turkey: affordances, language grounding and robotics - ; *A. Setti*, Cork Univ., Ireland: language grounding, motor resonance, abstract concepts - *L. Wheaton*, Georgia Tech, USA: affordances; *T. Ziemke, S. Thill*: University of Skövde, Sweden: affordances and language modelling –

RESEARCH INTERESTS

The theoretical perspective underlying my work is the idea that cognition is embodied and grounded in perception, action, emotional systems. Starting from this perspective, my interests focus on the interaction between objects, action, and language. A first research line concerns **grounding of object concepts in the sensorimotor system**. I performed studies on **affordances** (“invitations” to act offered by objects, particularly tools) and on the **mechanisms of motor resonance** activated while observing others (conspecifics, robots) interacting with objects. In the last years I have worked extensively in how **abstract concepts**, that do not refer to tangible objects, are acquired and represented. A further research line concerns language. I conducted studies demonstrating that **language comprehension involves the motor system** (e.g., specific effectors, goals) and showing how words, similarly to tools, can modify bodily perception and body schema. Work on concepts and language motivates the interest for the **influence of emotional, social and cultural factors on cognition**. I realized studies investigating how emotions activate the motor system, how objects affordances change in social contexts and how religion modulates attentional control. I work using behavioral and kinematics experiments and occasionally techniques as TMS and fMRI. I am also interested in neural networks, computational models and robotics, as some of my publications testify.

KEYWORDS

Keywords: embodied cognition – grounded cognition – affordances – motor system – action - social cognition – language and action – categorization – abstract concepts

FUNDING INFORMATION [grants as PI-principal investigator or I-investigator]

Year	Title, function [PI or I]	Funding Agency/Program	Grant value
2008-2011	PI – Local unit coordinator PRIN 2008-10	Ministero dell'Istruzione e della Ricerca	21.511 EUR
2006-2008	PI – Local unit coordinator PRIN 2006-2008	Ministero dell'Istruzione e della Ricerca	20.000 EUR
2008-2012	PI – International coordinator of the European FP7 Project ROSSI (Emergence of Communication in Robots Through Sensorimotor and Social Interaction)	European Community	2.800.000 EUR, of which UNIBO: 579.898 EUR.

2003-2015	PI – RFO (ex 60%) (A category)	University of Bologna	around 2-3000 euros pro year
2005	PI – funds for Summer School organization	University of Bologna	3500 EUR
2005	PI – funds for Summer School organization	Associazione Italiana di Scienze Cognitive (AISC)	500 EUR
2005	PI – funds for Summer School organization	Associazione Italiana di Psicologia (AIP)	500 EUR
2008	I – Funds for project The sense of body. Science, Art, Dance and Ethics	Istituto di Studi Avanzati (ISA), Bologna	10.000 EUR
2008	I – Funds for Summer School Organization (“The sense of body”)	University of Bologna	2850 EUR
2008	I – Funds for Summer School Organization (“The sense of body”)	European Science Foundation	890 EUR
2017-current: PI of the project Abstract concepts, language and sociality, Sapienza University of Rome, Euro 34.500			
2017-current: FABBR funding, MIUR 3000 Euro			

CAREER BREAKS

1 year maternity leave (2 children).

PUBLICATIONS – (only indexed publications or publications appeared on editorial lines with ISBN-ISSN)

1) Scientific books (8)

1. Borghi, A.M. (1986). *L'organizzazione della conoscenza. Aspetti e problemi.* Bologna: Pitagora. ISBN, 8837108923, 9788837108922. Length, 148 pages.

2. Borghi, A.M., Iachini, T. (Eds.) (2002). *Scienze della mente.* Bologna: Il Mulino. (2nd edition, 2004). 978-88-15-08430-9.

Borghi, A.M., Iachini, T. (2002). Introduzione. In Borghi, A.M. & Iachini, T. (eds.). *Scienze della mente.* Bologna: Il Mulino, pp. 7-26.

Chapters: **Borghi, A.M. (2002).** Concetti e azione. In Borghi, A.M. & Iachini, T. (eds.). *Scienze della mente.* Bologna: Il Mulino, pp. 203-222.

Press release: Recensioni (in Italiano):

- Il Sole XXIV Ore, February, 17, 2002, n. 46, p. 39. Michele Di Francesco, “Cognizioni della mente”,
- Le Scienze, Sandro Modeo.
- Galileo, Matteo Bartocci.

- portale di AI – Ignazio Licata.Rivista
- Teorie e Modelli: Recensione di Cristiano Castelfranchi and reply of the two editors.

3. Nicoletti, R., **Borghi, A.M.** (2007). *Il controllo motorio*. Bologna: Il Mulino. 978-88-15-11886-8.

4. Liuzza, MT., Cimatti, F., **Borghi, A.M.** (2010). *Lingue, corpo e pensiero: Le ricerche contemporanee*. Roma: Carocci. ISBN:9788843054398.

5. **Borghi, A.M.**, Pecher, D. (2011) (Eds.). *Embodied and Grounded Cognition*. Frontiers Research topic. ISSN 1664-8714, ISBN 978-2-88919-013-3, DOI 10.3389/978-2-88919-013-3. E-book.

6. **Borghi, A.M.**, Binkofski, F. (2014). *Words as social tools: an embodied view on abstract concepts*. New York/ Berlin: Springer.

7. Caruana, F., **Borghi, A.M.** (2016). *Il cervello in azione*. Bologna: Il mulino.

Press release: Recensioni (in Italiano):

- Brain factor
- Mente e cervello
- Il corriere della sera

8. Pellicano, A., **Borghi, A.M.**, Binkofski, F. (2017). (Eds.) *Bridging the theories of affordances and limb apraxia*. Frontiers Research topic. ISSN 1664-8714, ISBN 978-2-88945-225-5, DOI 10.3389/978-2-88945-225-5. E-book.

2) Papers in peer reviewed international journals – in English = 97

97. **Borghi, A.M.**, Barca, L., Binkofski, F., Tummolini, L. (accepted). Abstract concepts, language and sociality: from acquisition to inner speech. *Philosophical Transactions of the Royal Society B*.

96. Scorolli, C., **Borghi, A.M.**, Tummolini, L. (in press). Cues of control modulate the ascription of object ownership. *Psychological Research*. DOI: 10.1007/s00426-017-0871-9

95. Barca, L., Mazzuca, C., **Borghi, A.M.** (2017). Pacifier overuse and conceptual relations of abstract and emotional concepts *Frontiers in Psychology*, doi: 10.3389/fpsyg.2017.02014.

94. **Borghi, A.M.**, Binkofski, F., Castelfranchi, C., Cimatti, F., Scorolli, C., Tummolini, L. (2017). The challenge of abstract words. *Psychological Bulletin*, 143(3):263-292.
<http://dx.doi.org/10.1037/bul0000089>.

93. Pellicano, A., **Borghi, A.M.**, Binkofski, F. (2017). Editorial: Bridging the Theories of Affordances and Limb Apraxia. *Front. Hum. Neurosci.* 11:148. doi: 10.3389/fnhum.2017.00148

92. **Borghi, A.M.**, Setti, A. (2017) Abstract Concepts and Aging: An Embodied and Grounded Perspective. *Front. Psychol.* 8:430. doi: 10.3389/fpsyg.2017.00430

91. Marino, B., **Borghi, A.M.**, Buccino, G., Riggio, L. (2017). Chained activation of the motor system during language understanding. *Front. Psychol.* 8:199. doi: 10.3389/fpsyg.2017.00199
90. Gianelli, C., Marzocchi M., **Borghi A.M.** (2017) Grasping the Agent's Perspective: A Kinematics Investigation of Linguistic Perspective in Italian and German. *Front. Psychol.* 8:42. doi: 10.3389/fpsyg.2017.00042
89. **Borghi, A.M.**, Zarcone, E. (2016). Grounding abstractness: Abstract concepts and the activation of the mouth. *Front. Psychol.* 7:1498. doi: 10.3389/fpsyg.2016.01498.
88. Lugli, L., Obertis, A., **Borghi, A.M.** (2016). Hitting is male, giving is female: Automatic imitation and complementarity during action observation. *Psychological Research*. DOI: 10.1007/s00426-016-0808-8
87. Scerrati, E., Lugli, L., **Borghi, A.M.**, Nicoletti, R. (in press). The multifold Modality-Switch Effect: What Happens When We See the Bees Buzzing After Hearing the Diamonds Glistening *Psychonomic Bulletin & Review*, DOI 10.3758/s13423-016-1150-2..
86. Sakreida, K., Effner, I., Thill, S., Menz, M.M., Jirak, D., Eickhoff, C.R., Ziemke, T., Eickhoff, S.B., **Borghi, A.M.**, Binkofski, F. (2016). Affordance processing in segregated parieto-frontal dorsal stream sub-pathways. *Neuroscience & Biobehavioral Reviews*, 69, 89-112.
85. Jacquet P.O., Roy A.C., Chambon V., **Borghi, A.M.**, Salemme R., Farnè A., & Reilly K.T. (2016). Changing ideas about others' intentions: updating prior expectations tunes activity in the human motor system. *Scientific Reports*, 6:26995. DOI: 10.1038/srep26995.
84. **Borghi, A.M.** (2016). Commentary: "Weighty data: importance information influences estimated weight of digital information storage devices". *Front. Psychol.* 7:709. doi: 10.3389/fpsyg.2016.00709 83.
83. Scorolli, C., Daprati, E., Nico, D., **Borghi, A.M.** (2016). Reaching for objects or asking for them: Distance estimation in 7 to 15 years-old children. *Journal of Motor Behavior*, 48(2):183-91. doi: 10.1080/00222895.2015.1070787.
82. Natraj, N., Pella, I.M., **Borghi, A.M.**, Wheaton, L.A. (2015). The visual encoding of tool-object affordances. *Neuroscience (Section: Cognitive, Behavioral and Systems Neuroscience)*. pii: S0306-4522(15)00887-8. doi: 10.1016/j.neuroscience.2015.09.060.
81. Scorolli, C., & **Borghi, A.M.** (2015). Square bananas, blue horses: The relative weight of shape and color in concept recognition and representation. *Frontiers in Psychology*, 6:1542. doi:10.3389/fpsyg.2015.01542
80. Scerrati E, Baroni G, **Borghi A.M.**, Galatolo R, Lugli L and Nicoletti R (2015). The modality-switch effect: Visually and aurally presented prime sentences activate our senses. *Front. Psychol.* 6:1668. doi: 10.3389/fpsyg.2015.01668
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16. Ambrosini, E., Scorolli, C., **Borghi, A.M.**, Costantini, M. (2011). Experiencing objects. The role of the body. In: Kokinov, B., Karmiloff-Smith, A., Nersessian, N. J. (eds.) *European Perspectives on Cognitive Science.* © *New Bulgarian University Press, 2011 ISBN 978-954-535-660-5* (Eurocogsci, paper 235, pp. 1-5) (**best student award**). Database: Google Scholar.
15. Pezzulo, G., Barca, L., Lamberti Bocconi, A., **Borghi, A.M.** (2010). Motor Simulation in a Memory Task: Evidence from Rock Climbing. In S. Ohlsson & R. Catrambone (Eds.), *Cognition in flux. Proceedings of the 32nd Annual Conference of the Cognitive Science Society* (pp. 266-271). Austin, TX: Cognitive Science Society.
14. Caligiore, D., Guglielmelli, E., **Borghi, A.M.**, Parisi, D., Baldassarre, G. (2010). A Reinforcement Learning Model of Reaching Integrating Kinematic and Dynamic Control in a Camera-Arm Robot. In *2010 IEEE 9th International Conference on Development and Learning, Proceedings of ICDL 2010*, art. no. 5578840 , pp. 211-218. Database: Scopus, Google Scholar.
- 13. Borghi, A.M.**, Caligiore, D., & Scorolli, C. (2010). Objects, words, and actions. Some reasons why embodied models are badly needed in cognitive psychology. In V. Capecchi, M. Buscema, P. Cantucci & B. D'Amore (eds.). *Applications of mathematics in models, artificial neural networks and arts. Mathematics and society.* Berlin: Springer. Database: ISI web of Science, Google Scholar.
12. Gaudiello, I., Caligiore, D., Schiavone, G., Salerno, A., Sergi, F., Zollo, L., Guglielminelli, E., Parisi, D., Baldassarre, G., Nicoletti, R., **Borghi, A. M.** (2009). Effects on space representation of

using a tool and a button. *Cognitive Processing*. Special Issue ICSC, 2009, (pp. 153-154). Springer. Data base: ISI Web of Science.

11. Borghi, A.M., & Cimatti, F. (2009). Words as tools and the problem of abstract words meanings. In N. Taatgen & H. van Rijn (eds.). *Proceedings of the 31st Annual Conference of the Cognitive Science Society* (pp. 2304-2309). Amsterdam: Cognitive Science Society. **ISBN 978-0-9768318-5-3**. Database: Google Scholar.

10. Caligiore, D., **Borghi, A.M.**, Parisi, D., & Baldassarre, G. (2009). Affordances and compatibility effects: A neural-Network computational model. In J. Mayor, N. Ruh, K. Plunkett (Eds.). *Connectionist models of behaviour and cognition II*: PROGRESS IN NEURAL PROCESSING Volume: 18 Pages: 15-26 DOI: 10.1142/9789812834232_0002. Singapore: WorldScientific. Database: Google Scholar.

9. Borghi, A., Bonfiglioli, C., Ricciardelli, P., Rubichi, S., & Nicoletti, R. (2007). Do we access object manipulability while we categorize? Evidence from reaction times studies. In A.C. Schalley and Khlentzos, D. (Eds.). *Mental states: Evolution, function, nature* (pp. 153-170). Amsterdam/Philadelphia: John Benjamins. Harbound ISBN 978 90 272 3102 4, Ebook ISBN 978 90 272 9121 9. Data base: Psycinfo, Google Scholar.

8. Bazzarin, V., **Borghi, A.**, Tessari, A., Nicoletti, R. (2007). Is a small apple more like an apple or more like a cherry? In: S. Vosniadou & D. Kayser (eds.). *Proceedings of the European Cognitive Science Conference, Delphi 2007*. Taylor & Francis. **ISBN 10:** 184169696X **ISBN 13:** 9781841696966. Data base: Google Scholar.

7. Borghi, A., Bonfiglioli, C., Lugli, L., Ricciardelli, P., Rubichi, S. Nicoletti, R. (2005). Visual hand primes and manipulable objects. In: B. Bara, L. Barsalou, B. Bucciarelli (eds.) *COGSCI2005. XXVII Annual Conference of the Cognitive Science Society*. Mahwah, N. J.: Lawrence Erlbaum Associates, Inc., 2005. p. 322-327. ISBN 0-9768318-1-3. Database: Google Scholar.

6. Tsiotas, G., **Borghi, A.** & Parisi, D. (2005). Objects and affordances: An Artificial Life simulation. In: B. Bara, L. Barsalou, B. Bucciarelli (eds.) *COGSCI2005. XXVII Annual Conference of the Cognitive Science Society*. Mahwah, N. J.: Lawrence Erlbaum Associates, Inc., 2005. p. 2212-2217. ISBN 0-9768318-1-3. Database: Google Scholar.

5. Borghi, A.M., Di Ferdinando, A. e Parisi, D. (2003). Violation of category boundaries: A connectionist study with action-based categories. In F. Schmalhofer, R.M. Young & F. Katz, *Proceedings of the Meeting of the European Society of Cognitive Science, Osnabrück 2003* (pp.61-66). London: Erlbaum. Database: Google Scholar.

4. Borghi, A.M. (2005). Object concepts and action. In D. Pecher & R.A. Zwaan (Eds). *Grounding Cognition: The role of perception and action in memory, language, and thinking* (pp. 8-34). Cambridge, UK: Cambridge University Press. ISBN-13 978-0-521-83464; ISBN-10 0-521-83464-3 (printed first as hardcopy, then also as ebook). Database: Google Scholar.

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2. Di Ferdinando, A., **Borghi, A.M.**, Parisi, D. (2002). The role of action in object categorization. In S. Haller & G. Simmons (Eds.), *Proceedings of the 15th International Flairs Conference*, pp. 138-142, AAAI Press, Pensacola (FL). Database: Google Scholar.

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29. Mazzuca, C., Barca, L., Borghi, A.M. (2017). The Particularity of Emotional Words: A Grounded Approach. *Rivista Internazionale di Filosofia e Psicologia*, 8, 2, 124-133. Doi: 10.4453/rifp.2017/0010.

28. Cimatti, F., Flumini, A., Vittuari, M., **Borghi, A.M.** (2016). Odors, words and objects. *RIFL-Rivista Italiana di Filosofia del linguaggio.1*: 78-91, DOI 10.4396/20160606.

27. **Borghi, A.M.**, Caramelli, N., Setti, A. (2016). How abstract is risk for workers? Expertise, context and introspection in abstract concepts. *Reti-Saperi-Linguaggi - Italian Journal of Cognitive Science*, 1/2016, 5 (9), 89-112, special issue "Mind and language in action"

26. **Borghi, A.M.**, Cimatti, F. (2015). WAT (Words As social Tools): una prospettiva socio-corporea sulla cognizione umana. *Sistemi intelligenti*, 27(2), 361-372.

25. Scorolli, C., **Borghi, A.M.**, Tummolini, L. (2015). Indici visivi e giudizi impliciti di proprietà: Uno studio sperimentale. *Sistemi intelligenti*, 1, 209-220, DOI: 10.1422/79695.

24. Paglieri, F., Scorolli, C., **Borghi, A.M.** (2013). Modelli evolucionistici e differenze religiose: Alcuni problemi. *Sistemi intelligenti*, 25, 2, 355-361.

23. **Borghi, A.M.**, Scorolli, C.(2012). Parole come strumenti che estendono il corpo. *Sistemi intelligenti*, 24, 1, 117-12620.

22. Liuzza, M.T., Cimatti, F., **Borghi, A.M.** (2012). Linguistic tools for embodied minds. *RIFL*, 6, 2, 43-58. doi: 104396/20120704.

21. **Borghi, A.M.**, Cimatti, F. (2012). Words are not just words: the social acquisition of abstract words. *RIFL - ISSN: 2036-6728*. doi: . 10.4396/20120303.

20. **Borghi, A.M.**, Caruana, F. (2011). Cognizione sociale. Editoriale sul numero speciale La Cognizione Sociale, *Sistemi Intelligenti*, 23, 2, 219-222. Database: Google Scholar. **Issn 1120-9550**.

19. **Borghi, A.M.**, Gianelli, C., Lugli, L. (2011). La dimensione sociale delle affordance: Affordance tra io e altri. *Sistemi intelligenti*, 23, 2, 291-300, numero speciale La Cognizione sociale, a cura di A.M. Borghi & F. Caruana. Database: Google Scholar. **Issn 1120-9550**.

18. Lugli, L., Baroni, G., Gianelli, C., **Borghi, A.M.** (2011). L'importanza degli altri: Come il contesto relazionale influenza il sistema motorio. *Giornale Italiano di Psicologia*, 38, 703-710. Database: Google Scholar.
- 17. Borghi, A.M.** (2010). Parole, non simboli. Commento a Paternoster. *Sistemi intelligenti*, 1, 161-168. Database: Google Scholar. **Issn 1120-9550.**
- 16. Borghi, A.M.** (2009). Comprensione del linguaggio: movimento, azione, socialità. *Teorie e modelli*, XIV, 1, 67-77. Database: Google Scholar. **ISSN 0393-2834.**
- 15. Borghi, A.M.,** Montanari, F., Sarti, A. (2008). Il corpo clandestino. *Sistemi intelligenti*, 2, 341-346. Database: Google Scholar. **Issn 1120-9550.**
- 14. Borghi, A.M.,** Nicoletti, R. (2008). Se leggo cappello mi muovo verso l'alto Movimento e comprensione di parole e frasi. *Giornale Italiano di Psicologia*, 3, 563-588. Database: Psychinfo, Google Scholar.
13. Sacchetti, S., **Borghi, A.M.** (2007). Concetti di oggetti e funzione: Ruolo della funzione canonica e effetti di contesto. *Giornale Italiano di Psicologia*, 34, 781-788. Database: Psychinfo, Google Scholar.
- 12. Borghi, A.M.** (2007). Object concepts and embodiment: Why sensorimotor and cognitive processes cannot be separated. *La nuova critica*, 49-50, 90-107. **ISSN 1824 9663.** Database: Google Scholar.
- 11. Borghi, A.M.** (2006). Vita Artificiale e comportamento: Simulazioni su categorizzazione e azione. *Sistemi Intelligenti*, 18, 125-132. **Issn 1120-9550.**
10. Caramelli, N., **Borghi, A.M.,** Setti, A. (2006). The identification of definition strategies in children of different ages. *Linguistica Computazionale*, 26, 155-177. **ISSN 0392-6907 - ISBN 978-88-8147-576-6.**
9. Caramelli, N., **Borghi, A.M.,** Setti, A. (2006). The relational structure of conceptual knowledge in children of different ages. *Linguistica Computazionale*, 26, 179-196. **ISSN 0392-6907 - ISBN 978-88-8147-576-6.**
8. Borghi, A.M. & Iachini, T. (2003). Risposta a Cristiano Castelfranchi. *Teorie e modelli*, VIII, 2, 107-113. **ISSN 0393-2834**
- 7. Borghi, A.** (2000). Le menzogne della mente. Recensione a *Mente* di Domenico Parisi. *Ricerca e Futuro*, 18, 107-108. **ISSN 1593-4985.**
6. Caramelli, N., Montanari, A., **Borghi, A.M.** (1998). La conoscenza extralinguistica nella comprensione delle metafore nei bambini. *Età evolutiva*, 59, 1, 108-114. Data base: Psychinfo, Google Scholar.
5. Caramelli, N., **Borghi, A.** (1997b) L'organizzazione concettuale infantile: relazioni tematiche, tassonomiche e partonomiche. (Children's conceptual organization: The hierarchical structure of categories: perception vs. cognition). *Ricerche di psicologia*, III, 7-31. Data base: Psychinfo, Google Scholar.

4. Caramelli, N., **Borghi, A. M.** (1997a). L'organizzazione concettuale infantile: La struttura gerarchica delle categorie tra percezione e conoscenza. (Children's conceptual organization: The role of thematic, taxonomic and partonomic relations). *Ricerche di Psicologia*, *II*, 21, 7-31. Data base: Psychinfo, Google Scholar.

3. Caramelli, N., **Borghi, A. M.** (1995). La psicologia a Würzburg: il carattere teleonomico e selettivo del pensiero, *Axiomathes*, *VI*, 3, 349-374. Data base: Scopus, Google Scholar.

2. Caramelli, N., **Borghi, A.** (1994a). Lo studio dei concetti e dei processi di categorizzazione: teorie e modelli recenti. *Giornale Italiano di Psicologia*, *XXI*, 1, 23-44. **Issn** 0390-5394

1. Caramelli, N., **Borghi, A.** (1994b). Problemi teorici dello studio dei concetti e dei processi di categorizzazione. *Giornale Italiano di Psicologia*, *XXI*, 3, 339-366. **Issn** 0390-5394

Book chapters in Italian (n. = 8)

8. **Borghi, A.M.** (2015). Il futuro è “embodied”. In G. Buccino e M. Mezzadri (eds.), *Glottodidattica e Neuroscienze* (pp. 31-49). Firenze: Cesati.

7. **Borghi, A.M.**, Nicoletti, R.(2012). Movimento e azione. In Cubelli R. e Job. R.(Eds.) *Psicologia dei processi cognitivi*. Roma: Carocci (pp. 121-144). isbn 978-88-430-6160-0

6. Baroni, G., Pellicano, A., **Borghi, A.M.**, Rumiati, R., e Nicoletti, R., (2012). Le nostre reazioni di fronte ai guadagni e alle perdite. In: G. Belleli e R. Di Schiena (a cura di) *Decisioni ed emozioni: Come la psicologia spiega il conflitto tra ragione e sentimento*. (pp. 64-84) Bologna, Il Mulino. ISBN 9788815234544

5. **Borghi, A.M** (2002). Violazioni logiche nei processi di categorizzazione e nelle generalizzazioni induttive basate su categorie. In G. Mucciarelli & G. Celani (Eds.). *Quando il pensiero sbaglia. La fallacia tra psicologia e scienza*. Torino: UTET, pp. 120-156. Data base: Google Scholar. ISBN: 8877507640 ISBN 13: 9788877507648

4. **Borghi, A.M.** (2002). Concetti e azione. In Borghi, A.M. & Iachini, T. (eds.). *Scienze della mente*. Bologna: Il Mulino, pp. 203-222.

3. **Borghi, A.M.**, Iachini, T. (2002). Introduzione. In Borghi, A.M. & Iachini, T. (eds.). *Scienze della mente*. Bologna: Il Mulino, pp. 7-26.

2. Caramelli, N., **Borghi, A.M.** (2002). Sviluppi contemporanei. Immagini mentali. Concetti e categorizzazione. In Schönplflug W. e Schönplflug U. (a cura di), *Istituzioni di psicologia generale*, III italian edition edited by M. Olivetti Belardinelli e C. Fiorilli. Padova: Cedam, pp. 237-252. ISBN: 8813226667 ISBN 13: 9788813226664

1. Caramelli, N., **Borghi, A.M.** , Raffaelli, K.(1998) Come la descrizione linguistica di una storia cambia con l'età. In W. Battacchi, , M. Bosinelli, P.E. Ricci Bitti, G. Trombini (eds.), *Le ragioni della psicologia - Saggio in onore di Renzo Canestrari*. Milano: Angeli, 348-359. ISBN: 9788846407931

Conference Presentations

Invited speaker/discussant

- 1999, Discussant, First International Colloquium “Philosophy, Mind, and Society” on Categories and Belief, Turin, organized by the Laboratorio di Scienze Cognitive, Metodologiche ed Economico-Sociali (LASCOMES), Fondazione Rosselli
- 2003. Borghi, A.M. Concetti e azione: tra dati sperimentali e simulazioni connessioniste. Università della Calabria, Cosenza.
- 2005. Borghi, A.M. Azione e conoscenza concettuale. Dipartimento di Fisiologia, Università di Parma.
- 2005. Borghi, A.M. Object concept nouns and motor information. Amsterdam, July 6-9, 2005. Fifteenth Annual Meeting of the Society for Text and Discourse, **Symposium Perception and Action in Language Processing, Organizers: Rolf Zwaan, Katja Wiermer-Hastings.**
- 2005. Borghi, A.M. Concetti di oggetti e sistema motorio. Ospedale Maggiore, Dipartimento di Scienze Chirurgiche Specialistiche Biomateriali e Bioimpianti, **Università di Trieste.**
- 2006. Borghi, A.M. Oggetti, affordances, azione. Dipartimento di Psicologia, Università di Milano Bicocca.
- 2006. Borghi, A.M. Manipulable objects, words and action. Symposium Embodied Simulation, Kloster Irsee, 9-12 February 2006.
- 2006. Borghi, A.M. Concepts, words, and action. **University of Modena and Reggio Emilia**, April 26.
- 2006. Borghi, A.M. Concetti, parole e azione. **Workshop Linguaggio e scienze cognitive, University of Trieste**, Department of Psychology, May 18-19.2006.
- 2006. Borghi, A.M. Concetti, azione, imitazione, apprendimento motorio, **Master Le basi neurocognitive della riabilitazione motoria, Università di Trieste.** September 17, 2006.
- 2006. Borghi, A.M. Concettualizzazione, linguaggio e azione. IV Convegno nazionale di Neuroriabilitazione, **Azione, empatia ed imitazione nell'itinerario riabilitativo. Napoli, Centro Studi e Ricerca in Riabilitazione.** October 28, 2006.
- 2007. Borghi, A.M. Objects, words and action. Invited talk at the **CNRs Laboratoire de Psychologie et Neurocognition (CNRS UMR 5105), Université Pierre Mendès, Grenoble, France.**
- 2007. Borghi, A.M. Does experimental psychology require embodied models? or Why embodied models are badly needed in cognitive psychology. Invited talk within the 2 days workshop **From observations and experiments to modeling styles, Institute of Science and Technologies of Cognition, Rome, October 11-12, 2007.**
- 2007. Borghi, A.M., Riggio, L. Sentence comprehension and affordances. Trieste, the XV Kanizsa Lecture & Trieste Symposium on Perception and Cognition. November 22-23. See also Coackroaches to culture: current controversies in cognition, November 24-25, Trieste (poster by Claudia Scorolli).
- 2008. Borghi, A.M. Cognizione embodied e simulazione motoria: Studi sul linguaggio. Tavola rotonda: **IMMAGINI DELLE STRUTTURE, IMMAGINI DELLE FUNZIONI? NEUROSCIENZE TEORICHE E APPLICATE.** June 5-6, Noto, CODISCO (see website)
- 2008. Borghi, A.M. Visuomotor priming and compatibility effects. **Cognitive Neuroscience Conference** (see website). **School of Psychology, Birmingham.** June 26-27.
- 2008. **Rome**, September 16-17. Tavola quadrata su: **Scienze cognitive, neuroscienze, e ISTC.** Partecipano: Salvatore Aglioti, Anna Borghi, Patrizio Pasqualetti, Giuseppe Vallar, Pierluigi Zoccolotti.

- 2008. **Rome**, September 22-24. iTALK (Integration and Transfer of Action and Language Knowledge) **Roadmap Meeting Workshop**. (program: pdf)
- 2009. **Lille**, France, January 28-31. **Motor representation and language of space**. European Science Foundation. Organizers: Angela Bartolo, Yann Coello.
- 2009. **Ancona**, May 23. Allenare il cervello. Il contributi delle recenti scoperte delle neuroscienze per l'apprendimento motorio-sportivo. CONI.
- 2009. **Reggio Emilia**, May 25. Perspectives on Embodied and grounded cognition. Giornata su Danza, neuroscienze, transmedialità. (program: pdf)
- 2009. **Atlanta**, Georgia, USA, September 28-30. Neural correlates of object recognition and action. Title: Sensorimotor transformations: implications for objects and affordances.
- 2009. **Philadelphia**, PA, October 1. Talk at the University of Pennsylvania, NCCRN. 3400 Spruce Street, 3 West Gates Bldg, Neurology Conference Room. Title: Seeing hands, seeing objects, seeing words.
- 2010. **Plymouth**, UK, January 13. Talk at the University of Plymouth. Title: Acting with objects, interacting with others.
- 2010. **Zurich**, CogSys, January 27. Talk at the Cognitive Systems Conference. Title: Stable and variable affordances. A contribution of the ROSSI project.
- 2010. **Nijmegen**. Discussant, Workshop The Embodied Mind: Perspectives and Limitations. Radboud University Nijmegen, October 27-28, 2010.
- 2010. **Nijmegen**. Talk at Donders Institute, Spinozageboud: Affordances, automaticity and embodied cognition. November, 2, 2010.
- 2010. **Milano**, talk at University of Milano, Department of Philosophy (seminars organized by C.Sinigaglia). Mani, oggetti e parole. December 17, 2010.
- 2011. **Cremona**, workshop: **Che cos'e' un soggetto, Ontologie della soggettività tra comune e singolare** (talks: Anna Borghi, Massimo De Carolis, Vittorio Gallese, Paolo Virno). Organized by singolarecomune, February 19, 2011.
- 2011. **Wien**. Talk: Embodied cognition and language comprehension: Motor chains and social aspects. within the Workshop **The mirror neuron system and embodiment: Implications for Psychotic Disorders**. Other speakers: Ferdinand Binkofski, Giovanni Buccino, Anna Borghi, Tilo Kircher. 19th European Congress of Psychiatry – EPA 2011. March 12-15, 2011.
- 2011. **Montreal**. Talk Comprehending words, comprehending actions within the **Symposium Embodied Language Processes: From Words to Stories** (speakers: 1. Learning Words and Actions in an Embodied System Erin R. Hahn, Lisa Gershkoff-Stowe, 2. Basic Emotions and Early-Learned English Verbs Josita Maouene, 3. Comprehending Words, Comprehending Actions Anna M. Borghi, 4. Preschoolers Simulate a Character's Movements During Story Comprehension Agnieszka M. Polanowski Fecica, Daniela O'Neill). 2011 Society for Research in Child Development SRCD Biennial Meeting, Montreal, Canada, April 1, 2011.
- 2011. **Aachen, April 7**. Invited talk: **Words, affordances, actions**. Colloquium on Disorders of Communication and Cognition, **Universitätsklinikum der RWTH Aachen**.
- 2011. **Aachen**, April 8-9, 2011. Invited talk **Affordances, tools, and words as tools** at the symposium Embodied mind. Motion on communication and cognition research, RWTH Aachen University. pdf of the program.
- 2011. **Cefalù, Sicily**, April 19. Invited talk at the **international workshop on Vision, Action and Language Embodiment**. pdf of the program.
- 2012. **Kaliningrad, Russia**, June 18-24, THE FIFTH INTERNATIONAL CONFERENCE ON COGNITIVE SCIENCE. Claudia Scorolli, Anna Borghi: Words as tools. An extended view. Kinematics evidence. Symposium **Neurocognitive Mechanisms of Human Linguistic Behavior**.

- 2013. Potsdam, Germany, ESLP, Embodied and Situated Language Processing, invited talk: Abstract concepts and words. The role of social acquisition. Potsdam, Germany, July 29-31.
- 2013. Cambridge, UK, September 2-4. Embodied language II. Invited talk: Language, affordances and the bodily space.
- 2013. University of Arezzo, October 7-9. Conference Epistemologia della conoscenza ordinaria. Percezioni, rappresentazioni, concetti, linguaggi, inferenze, ontologie e senso comune. Invited talk: Objects, words, abstract words: An embodied and grounded approach.
- 2013. Roma, ISTC-CNR. October 9-10. Workshop Language and Cognition in Embodied Agents. Invited talk: Words as tools. Language, affordances and the bodily boundaries.
- 2013. Napoli, November 21. AISC. Simposio Scegliere il futuro: Prospettive interdisciplinari. Speakers: Petrillo, Bellagamba, Borghi, Paglieri.
- 2014. Parma, April 28. Tra neuroscienze e glottodidattica: ponti in costruzione. Organizers: Giovanni Buccino, Marco Mezzadri. Speakers: Anna Borghi, Giovanni Buccino, Paola Marangolo, Gabriella Vigliocco.
- 2014. Rome, December 3. AISC-CODISCO conference. Invited talk: Truth, freedom and phantasy are difficult to explain: a proposal on abstract concepts and words
- 2015- Rome, May 15. CLASTA conference. Invited presentation to the talk of Corrado Sinigaglia.
- 2015. Berlin, Institute of Mind and Brain, Humboldt University, October 23-24. Conference "Impure perception", organized by Jesse Prinz and by the Einstein group. Invited talk: Motor and linguistic contaminations of perception: From object affordances to abstract concepts. Further invited speakers: Dustin Stokes; Bence Nanay; Panos Athanasopoulos, Sally Linkenauger, Jesse Prinz.
- 2016. Berlin, Institute of Mind and Brain, Humboldt University, May 1-2. 4th Einstein Group Workshop. Invited talk: Words as social tools: mouth activation with abstract concepts <http://www.einsteinmindbrain.de/>
- 2016. Rome, Modelact conference, June 6-7. Invited talk: From affordances to abstractness: An embodied and grounded perspective on language. Modelact conference
- 2016. Rome, Deleuze Camp, 4-8 July. July 6. Invited talk: Embodied and grounded cognition. With Felice Cimatti.
- 2017. Wien, March 23-25. International Convention of Psychological Science (ICPS). Invited talk (symposium **Novel approaches to numerical cognition**): Counting and movement.
- 2017. Firenze, March 28. Invited talk: Parole e azione. Department of Letter and Philosophy (prof. Silvano Zipoli-Caiani).
- 2017. Padua, May 19. Invited talk: at the conference [Mind, Brain, and Body. A Neuroethical Perspective – Padua – May 17th-19th, 2017](#).
- 2017. Potsdam, ESCOP conference, September 3-6. Invited talk at the symposium Symbolic or Grounded? Abstract meaning in the human mind and brain. Organized by F. Pulvermuller (participants: M. Arbib, A. Borghi, G.Dove, A.Glenberg, F. Pulvermueller, G. Vigliocco)
- 2017. Berlin School of Mind and Brain, September 7. Workshop and Panel discussion. **Neurocognitive Mechanisms for Abstract Concepts**. Organizers: M.Fischer, F.Pulvermueller, M. Pauen. Participants: F.Pulvermueller, G.Dove, A.Borghi, C.Gianelli, L.Grisoni, M.Arbib, A.Glenberg.
- 2017. Bari, Aip Sperimentale, September 21. Talk Concetti astratti, linguaggio e socialità within the symposium "Concetti astratti: diversi tipi, molteplici rappresentazioni" Participants: Anna Borghi, Sara Dellantonio & Remo Job, Marta Ghio & Marco Tettamanti, Luca Tummolini. AIP Sperimentale, Bari, September 20-22, 2017.
- • 2017. Torino, October 12-13.. Conference Neural mechanisms - Among philosophy and neuroscience. Invited talk (together with C.Becchio, A.Paternoster, A.Plebe, C.Sinigaglia).

- 2017. Firenze, October 21. Atletica del cuore 2. Invited talk: The relationship between cognition and body.
- 2017. Roma, November 19-20, AIDEE conference Neuroscienze, sviluppo, disprassia. Invited talk: Affordance tra percezione, azione e cognizione (Affordances among perception, action, and cognition).
- 2017. Palermo, November 24-25. SINP (società italiana di neuropsicologia) conference. Invited talk in a symposium Il ruolo del linguaggio nella categorizzazione: il caso dei concetti astratti. (The role of language in conceptualization: the case of abstract concepts.) (organizer:G.D. Zannino, participants G.D.Zannino, C.Silveri, A.Borghi, M.Marelli)

Conference abstracts

183. Villani, C., Lugli, L., Liuzza, M.T., Borghi, A.M. (2017). Different kinds of Abstract concepts. AISC conference, Bologna. December 14-16, 2017.
182. Villani, C., Lugli, L., Borghi, A.M. (2017). Concetti astratti: un dominio omogeneo o eterogeneo Uno studio sulle differenze fine-grained delle sottocategorie dei concetti astratti. AIP Sperimentale, Bari, September 20-22, 2017.
181. Mazzuca, C., Lugli, L., Nicoletti, R., Borghi, A.M. (2017). Influenza dell'attivazione di effettori sul processamento di parole astratte, concrete ed emotive. AIP Sperimentale, Bari, September 20-22, 2017.
180. Mazzuca, C., Barca, L., Borghi, A.M. (2017). Poster: Pacifier overuse and processing of abstract, concrete and emotional concepts. Embodied and Situated Language Processing ESPL, Moscow, September 10-12.
179. Lugli, L. & Borghi, A.M. (2017). Chewing a gum interferes with abstract concepts' processing. Presentation at the ESCOP conference, Potsdam, September 3-6.
178. Villani, C., Lugli, L. & Borghi, A. M. (2017). A taxonomy of Italian abstract concepts. Poster presented at the ESCOP conference, Potsdam, September 3-6.
177. Mazzuca, C., Barca, L., Borghi, A.M. (2017). The influence of pacifier on conceptual acquisition: a multimodal approach. Poster. Language as a form of action, Rome, June 2017.
176. Scerrati, E., Lugli, L., Borghi, A.M., Nicoletti, R. (2016). A study on abstract concepts with the extrinsic Simon task. Abstract concepts international symposium 2016. Structure, processing and modeling. November 18, 2016.
175. Mazzuca, C., Borghi, A.M., (2016). Abstract concepts and the activation of the hand and mouth effectors. Abstract concepts international symposium 2016. Structure, processing and modeling. November 18, 2016.
174. Barca, L., Mazzuca, C., Notte, M., Borghi, A.M. (2016). Influenza dell'utilizzo del ciuccio sull'elaborazione di concetti astratti, concreti ed emotivi. Congresso di Psicologia Sperimentale, AIP, Roma, September 20-22 2016. 174.
173. Scerrati, E., Lugli, L., Borghi, A.M., Nicoletti, R. (2016). CogSci, Recognizing and Representing Events: Integrating Psychological, Philosophical, Linguistic, Computational and Neural Perspectives, poster: Seeing the Bees Buzz and Hearing the Diamonds Glisten: The Effect of the Mode of Presentation of Stimuli on the Modality-Switch Effect. Philadelphia, PA, USA, August 10-13.
172. Scerrati, E., Lugli, L., Borghi, A.M., Nicoletti, R. (2016). Emergent Meaning workshop, Neural, Social, and Computational Perspectives, poster: Does the Mode of Presentation of Stimuli Affect Modality-Switching Costs? A Study with the Lexical Decision Task. Lehigh University, Bethlehem, PA, USA, August 10.
171. Scerrati, E., Lugli, L., Borghi, A.M., Nicoletti, R. (2016). ICT conference, International Conference on Thinking, poster: Is the color of Culture visual or auditory? A study on abstract concepts with the Extrinsic Simon task. Brown University, Providence, RI, USA, August 4-6.

170. Scerrati, E., Lugli, L., Borghi, A.M., Nicoletti, R. (2016). Is the acoustic modality relevant for abstract concepts? An investigation with implicit measures. Rome, Modelact conference, June 6-7.
169. Scerrati, E., Lugli, L., Borghi, A.M., Nicoletti, R. (2016). Is the acoustic modality relevant for abstract concepts? An investigation with implicit measures. Rome, Modelact conference, June 6-7.
168. Borghi, A.M. (2015). Perspective and bodily space in language comprehension. (talk within the symposium Language, action and space, convenors A.M.Borghi, L.Tummolini). 6th International Conference on Spatial Cognition (ICSC): Space and Situated Cognition, Rome, September 7-11.
167. Lugli, L. Baroni, G., Anelli, F., Borghi, A.M., R.Nicoletti (2015). Moving through the space: how arithmetical calculations are involved. (talk within the symposium How do numbers move mentally? The interplay between numerical cognition and multiple dimensions of space, convenors L. Lugli, B. Winter). 6th International Conference on Spatial Cognition (ICSC): Space and Situated Cognition, Rome, September 7-11.
166. Flumini, A., Borghi, A.M., Santiago, J. (2015). The shape of abstract words. ESCOP 2015, Cyprus, September 17-20.
165. Scerrati, E., Baroni, G., Borghi, A.M., Galatolo, R., L.Lugli, R.Nicoletti (2015). Visually and aurally presented prime sentences automatically activate our senses. ESCOP 2015, Cyprus, September 17-20.
164. Scerrati, E., Baroni, G., Borghi, A.M., Galatolo, R., L.Lugli, R.Nicoletti (2015). Il ruolo della modalità del contenuto e del modo di presentazione dello stimolo nella determinazione del modality switch effect. XXI Congresso di Psicologia sperimentale, AIP, Rovereto, September 10-12.
163. Lugli, L., Obertis, A., Borghi, A.M. (2015). Imitative and complementary actions evoked by individual vs. social hands movements. Budapest, 6th Joint Action Meeting, JAM. July 1-4.
162. Scorolli, C., Pesciarelli, Borghi, A.M., Colzato, L., Hommel, B., & Cacciari, C. (2015). Effects of specific religious practice on the electrophysiological responses to errors. International Convention of Psychological Science (ICPS), Amsterdam, 12-14 March 2015, Poster.
161. Anelli, F., Lugli, L., Baroni, G., Borghi, A.M., Nicoletti, R.(2014). Camminare fa bene all'aritmetica: come i movimenti influenzano le addizioni e le sottrazioni. XX Congresso di Psicologia Sperimentale, AIP, Pavia, September 2014.
160. Scorolli, C. Pesciarelli, F., Borghi, A.M., Colzato, L., Hommel, B., Cacciari, C.(2014). Effetti della religione sulla risposta neurofisiologica all'errore. XX congresso di psicologia sperimentale, AIP. Pavia, September 2014.
159. Lugli L., Baroni G., Anelli F., Borghi A.M., Nicoletti R. (2014) Speaking about numbers: Does the motion of the whole body play a role? Embodied and Situated Language Processing ESLP 2014, August 19-21, Rotterdam, NL.
158. Scorolli, C., Borghi, A.M., Tummolini, L. (2013). Questo è mio, quello è tuo: Giudizi impliciti sulla proprietà. AIP. XIX congresso di psicologia sperimentale. Rome, September 16-18.
157. Lugli, L., Baroni, G., Anelli, F., Borghi, A.M., Nicoletti, R. (2013). Interazione tra cognizione numerica e processi motori. AIP. XIX congresso di psicologia sperimentale. Rome, September 16-18.
156. Granito, C., Scorolli, C., Borghi, A.M. (2013). Alice a Legoland: come acquisiamo le parole astratte. AIP. XIX congresso di psicologia sperimentale. Rome, September 16-18.
155. Flumini, A., Barca, L., Borghi, A.M., Pezzulo, G. (2013). Effetti di compatibilità tra postura della mano e affordances: uno studio su parole ed oggetti con MouseTracker. AIP. XIX congresso di psicologia sperimentale. Rome, September 16-18.
154. Lugli, L., Baroni, G., Anelli, F., Borghi, A.M., Borghi, A.M., Nicoletti, R. (2013). Body movements affect counting. 35th annual cognitive science conference. Berlin, Germany, July 31-August 3.
153. Gianelli, C., Lugli, L., Baroni, G., Nicoletti, R., Borghi, A.M. (2013). How social context enhances the link between linguistic stimuli and motor behaviour. ESPL, Embodied and Situated Language Processing, Potsdam, Germany, July 29 - 31, 2013.

126. Scorolli, C., Granito, C., Borghi, A.M. (2013). Learning abstract words: The key brick of language. ESPL, Embodied and Situated Language Processing, Potsdam, Germany, July 29 - 31, 2013.
151. Scorolli, C., Miatton, M., Wheaton, L., Borghi, A.M. (2013). Semantic relations between objects in a social context: A kinematics study on social intention. Berlin, JAM, Joint Action Meeting, Berlin, Germany, July 27 - 29, 2013.
150. Scorolli, C., Borghi, A.M., Tummolini, L. (2012). Il proprietario e' il piu' vicino ed il primo a scoprire l'oggetto. Embodiment e proprieta'. Atti del nono convegno dell'associazione italiana di scienze cognitive (AISC), Roma, December 3-5, 2012, editors Marco Cruciani & Federico Cecconi.
149. Scorolli, C., Miatton, M., Wheaton, L., Borghi, A.M. (2012). Semantic relations between objects in a spatial context: A kinematics study on social intention. Cognition and Language: A research Conference in Memory of Patrizia Tabossi. The Trieste Symposium on Perception and Cognition. Trieste. November 9, 2012.
148. Scorolli, C., Miatton, M., Wheaton, L., Borghi, A.M. (2012). Ti porgo un oggetto, prendo un oggetto: Uno studio cinematografico sull'intenzione sociale. AIP, Congresso Nazionale della Sezione di Psicologia sperimentale. Chieti, 20-22 September 2012.
147. Borghi, A.M. (2012). The physical and social space of affordances. (talk within the symposium Objects and action in the individual and social space: Affordances and embodied cognition). 5th International Conference on Spatial Cognition (ICSC): Space and Embodied Cognition. Rome, 4-9 September 2012.
146. Morlino, G., Gianelli, Borghi, A.M., Nolfi, S. (2012). Category learning through action: A study with human and artificial agents. 5th International Conference on Spatial Cognition (ICSC): Space and Embodied Cognition. Rome, 4-9 September 2012.
145. Gianelli, C., Ranzini, M., Marzocchi, M., Rettore Micheli, L., & Borghi, A.M. (2012). Influence of numerical magnitudes on the free choice of an object position. 5th International Conference on Spatial Cognition (ICSC): Space and Embodied Cognition. Rome, 4-9 September 2012.
144. Scorolli, C., Miatton, M., Wheaton, L. & Borghi, A.M. (2012). Poster. When a glass calls: Anatomy of a toast. 5th International Conference on Spatial Cognition (ICSC): Space and Embodied Cognition. Rome, 4-9 September 2012.
143. Roversi, C., Borghi, A.M., Tummolini, L. (2012). Poster: Social objects in mind: an experimental study on social concepts. Objects in mind. First Aarhus-Paris Conference in Social Ontology and Cognition. University of Aarhus, Denmark, June 25-26 2012.
142. Paglieri, F., Borghi, A.M., Colzato, L., Hommel, B. & Scorolli, C. (2012). Religious differences in temporal discounting: Calvinists, Catholics and atheists. Rome, ISTC-CNR, May 29 2012, Intertemporal day.
141. Anelli, F., Baroni, G., Borghi, A.M., Lugli, L., Nicoletti, R. (2012). Counting is easier while experiencing a congruent movement. Rovereto Workshop on Concepts, Action, Objects CAOS, May 24-27, 2012.
140. Scorolli, C., Borghi, A.M., Tummolini, L. (2012). The owner is closer and is the first to discover objects. Exploring the embodied nature of object ownership. Rovereto Workshop on Concepts, Action, Objects CAOS, May 24-27, 2012.
139. Ranzini, M., Anelli, F., Borghi, A.M., Carbone, R., Lugli, L. Nicoletti, R. (2011). Object graspability affects number processing 17th Meeting of the European Society for Cognitive Psychology, ESCOP 2011, San Sebastian, September 29-October 2, 2011.
138. Scorolli, C., Daprati, E., Nico, D., Borghi, A.M. (2011). Catching objects through words. 17th Meeting of the European Society for Cognitive Psychology, ESCOP 2011, San Sebastian, September 29-October 2, 2011.

137. Ottoboni, Borghi, A.M., Tessari, A. (2011). The role of oculo-motor coordination in affordance. 17th meeting of the European Society for Cognitive Psychology, ESCOP 2011, San Sebastian, September 29-October 2, 2011.
136. Scorolli, C., Da prati, E., Nico, D., & Borghi, A.M. (2011). Catching objects through words. 17th meeting of the European Society for Cognitive Psychology, ESCOP 2011, San Sebastian, September 29-October 2, 2011.
135. Ranzini, M., Anelli, F., Borghi, A.M., Carbone, R., Lugli, L., Nicoletti, R. (2011). Object graspability affects number processing. 17th meeting of the European Society for Cognitive Psychology, ESCOP 2011, San Sebastian, September 29-October 2, 2011.
134. Scorolli, C., Daprati, E., Nico, D., Borghi, A.M. (2011). Comprensione del linguaggio e rappresentazione dello spazio: le parole come strumenti. XVII Congresso Nazionale della Sezione di Psicologia Sperimentale, Catania, September 14-16, 2011.
133. Flumini, A., Ranzini, M., Borghi, A.M. (2011). Nomine sunt consequentia rerum: corrispondenze suono-forma nella denominazione di oggetti conosciuti. XVII Congresso Nazionale della Sezione di Psicologia Sperimentale, Catania, September 14-16, 2011.
132. Anelli, F., Borghi, A.M., Nicoletti, R. (2011). Dinamiche del pericolo e affordances. XVII Congresso Nazionale della Sezione di Psicologia Sperimentale, Catania, September 14-16, 2011.
131. Obertis, A.C., Lugli, L., Borghi, A.M. (2011). Dare è femmina, colpire è maschio. XVII Congresso Nazionale della Sezione di Psicologia Sperimentale, Catania, September 14-16, 2011.
130. Ranzini, M., Anelli, F., Borghi, A.M., Nicoletti, R. (2011). Fuggire dal dolore? Uno studio sulla percezione di oggetti pericolosi. XVII Congresso Nazionale della Sezione di Psicologia Sperimentale, Catania, September 14-16, 2011.
129. Scorolli, C., Jacquet, P.O., Binkofski, F., Nicoletti, R., Tessari, A. & Borghi, A.M. (2011). Does catching an object differ from catching a flower? Embodied and Situated Language Processing 2011 (ESLP 2011), Bielefeld University, August 25-27 2011.
128. Borghi, A.M., Flumini, A., Cimatti, F., Marocco, D. & Scorolli, C. (2011). Language's role in concepts: A study on concrete and abstract words acquisition. 5th annual Rovereto workshop on Concepts, Actions and Objects (CAOs). May 19th-22nd, Rovereto.
127. Natraj N., Poole V.N., Mizelle J.C., Flumini A., Borghi A.M. & Wheaton L. (2011). Context and Hand posture Modulate the Neural Dynamics of Tool-Object Perception. Cognitive Neuroscience Society Annual Meeting, San Francisco, CA, April 2-5 2011.
126. Caligiore, D., Borghi, A.M., Parisi, D., Ellis, R., Cangelosi, A. & Baldassarre, G. (2011). COSYNE 2011. Affordances of distractors and compatibility effects: a study with the computational model TROPICALS.
125. Scorolli, C., Da Prati, E., Nico, D., Borghi, A.M. (2011). Language comprehension and space representation: words as tools. BCCD11 Budapest Conference on Cognitive Development, January 14-16, 2011.
124. Costantini, M., Ambrosini, E., Scorolli, C., Borghi, A.M. (2010). When objects are close to you: Objects manipulation and use in the peripersonal space. Poster presented at the Symposium The embodied mind: Perspectives and Limitations, Radboud University, Nijmegen, October 27-28, 2010.
123. Ranzini, M., Borghi, A.M., & Nicoletti, R. (2010). Effects of motor simulation and motor resonance in a line bisection task. Poster presented at the Symposium The embodied mind: Perspectives and Limitations, Radboud University, Nijmegen, October 27-28, 2010.

122. Flumini, A., Natraj, N., Wheaton, L., Borghi, A.M. (2010). Una mano, due oggetti: Emergere delle affordances nei contesti. Associazione Italiana di Psicologia (AIP), XVII Congresso sez. Psicologia Sperimentale, Bologna, September 2-3, 2010.
121. Anelli, M., Borghi, A.M., Nicoletti, R. (2010). Grasping the pain. La simulazione motoria con affordance pericolose. Associazione Italiana di Psicologia (AIP), XVII Congresso sez. Psicologia Sperimentale, Bologna, September 2-3, 2010.
120. Marino, B., Borghi, A.M., Buccino, G., Riggio, L. (2010). Lo scopo dell'interazione di un organismo con un oggetto seleziona le affordances. Associazione Italiana di Psicologia (AIP), XVII Congresso sez. Psicologia Sperimentale, Bologna, September 2-3, 2010.
119. Nicoletti, R., Lugli, L., Pellicano, A., Borghi, A.M. (2010). L'effetto affordance in compiti go-nogo e sociali. Associazione Italiana di Psicologia (AIP), XVII Congresso sez. Psicologia Sperimentale, Bologna, September 2-3, 2010.
118. Scorolli, C., Jacquet, P., Binkofski, F., Nicoletti, R., Tessari, A., Borghi, A.M. (2010). La corteccia motoria primaria nell'elaborazione di frasi concrete e astratte. Associazione Italiana di Psicologia (AIP), XVII Congresso sez. Psicologia Sperimentale, Bologna, September 2-3, 2010.
117. Anelli, M., Borghi, A.M., Scorolli, C., Tessari, A. (2010). Verbi e oggetti relati all'azione: Elaborazione linguistica o motoria? Associazione Italiana di Psicologia (AIP), XVII Congresso sez. Psicologia Sperimentale, Bologna, September 2-3, 2010.
116. Ranzini, M., Borghi, A.M., Nicoletti, R. (2010). Possibili effetti di risonanza motoria in un compito di bisezione. Associazione Italiana di Psicologia (AIP), XVII Congresso sez. Psicologia Sperimentale, Bologna, September 2-3, 2010.
115. Costantini, M., Ambrosini, E., Scorolli, C., Borghi, A.M. (2010). Quando l'oggetto è vicino: Manipolazione e uso di oggetti nello spazio peri-personale. Associazione Italiana di Psicologia (AIP), XVII Congresso sez. Psicologia Sperimentale, Bologna, September 2-3, 2010.
114. Scorolli, C., Jacquet, P., Binkofski, F., Nicoletti, R., Tessari, A., & Borghi, A.M. (2010). The role of primary motor cortex in concrete and abstract sentences comprehension. 27th International Congress of Applied Psychology, Melbourne, Australia, July 11-16.
113. Lugli, L., Gianelli, C., Baroni, G., Borghi, A.M., & Nicoletti, R. (2010). Interacting with different objects and agents: A behavioral and kinematics study. 3rd UK Cognitive Linguistics Conference, University of Hertfordshire, 6-8 July 2010.
112. Scorolli, C., Jacquet, P., Binkofski, F., Nicoletti, R., Tessari, A., & Borghi, A.M. (2010). Processing abstract and concrete sentences: A role of primary motor cortex? Fourth Annual Rovereto workshop on Concepts Actions and Objects, Functional and Neural perspective: CAOS. Rovereto, May 20-23, 2010.
111. Borghi, A.M. Overview of cognitive robotics networks in Europe. Talk within the symposium Embodied Robotics: from Affordances to Action organized by Martin Fischer, Anna Borghi. 1st Joint Conference of the EPS and SEPEX, 15-17 April, 2010, Granada.
110. Borghi, A.M., Cimatti, F. (2010). Abstract words and social development ([poster](#)). EPS workshop The representation of abstract concepts. London, UCL, January 8-9.
109. Scorolli, C., Binkofski, F., Buccino, G., Nicoletti, R., Riggio, L., Borghi, A.M. (2010). Abstract and concrete sentences, embodiment and languages. EPS workshop The representation of abstract concepts. London, UCL, January 8-9.
108. Ferri, F., Stoianov, I., Gianelli, C., D'Amico, L., Borghi, A.M., Gallese, V. Quando le emozioni e l'azione si incontrano: uno studio di cinematica del comportamento di "dar da mangiare" all'altro. Bologna, Società Italiana di Neuropsicologia, SINP, 27-28 Novembre 2009.
107. Pezzulo, G., Borghi, A.M., Lamberti-Bocconi A., Barca, L. Simulazione ed effetto sui chunks motori: Uno studio su scalatori esperti e non esperti. XV Congresso AIP sez. Sperimentale. Chieti, 24-26 settembre.
106. Scorolli, C., Borghi, A.M., Binkofski, F., Buccino, G., Nicoletti, R., Riggio, L. (2009). Embodiment e linguaggio: Uno studio su frasi astratte e concrete. XV Congresso AIP sez. Sperimentale. Chieti, 24-26 settembre.

105. Anelli, M., Nicoletti, R., Borghi, A.M. Categorizzazione e azione: Risposte motorie a oggetti duri e teneri. XV Congresso AIP sez. Sperimentale. Chieti, 24-26 settembre.
104. Gianelli, C., Baroni, G., Lugli, L., Borghi, A.M., Nicoletti, R. (2009). Tra me e te: parole e oggetti in interazione. XV Congresso AIP sez. Sperimentale. Chieti, 25-27 settembre.
103. Gaudiello, I., Caligiore, D., Schiavone, G., Salerno, A., Sergi, F., Zollo, L., Guglielminelli, E., Parisi, D., Baldassarre, G., Nicoletti, R., Borghi, A. (2009). Effects on space representation of using a tool and a button. *Cognitive Processing. Special Issue ICSC, 2009*, (pp. 153-154). Springer.
102. Colzato, L., Scorolli, C., van den Wildenberg, W., Borghi, A.M., Hommel, B. (2009). Losing the big picture: How religion may control visual attention. ESCOP conference, Krakow, September 2-5, 2009.
101. Scorolli, C., Borghi, A.M., Nicoletti, R. Embodiment and language: Cross-linguistic evidence on abstract and concrete sentences. ESCOP conference, Krakow, September 2-5, 2009.
100. Baroni, G., Lugli, L., Gianelli, C., Borghi, A.M., Nicoletti, R. (2009). Self, others and objects: How they interact and modulate the motor system. ESCOP conference, Krakow, September 2-5, 2009.
99. Pellicano, A., Iani, C., Rubichi, S., Ricciardelli, P., Borghi, A.M., Nicoletti, R. (2009) Real life motor training modifies motor performance: The advantage of being drummers. ESCOP conference, Krakow, September 2-5, 2009.
98. Colzato, L., Scorolli, C., van den Wildenberg, W., Borghi, A.M., Hommel, B. (2009). Losing the big picture: How religion may control visual attention. ESCOP conference, Krakow, September 2-5, 2009.
97. Scorolli, C., Borghi, A.M., Nicoletti, R. (2009) Embodiment and language: Cross-linguistic evidence on abstract and concrete sentences. ESCOP conference, Krakow, September 2-5, 2009.
96. Baroni, G., Lugli, L., Gianelli, C., Borghi, A.M., Nicoletti, R. (2009). Self, others and objects: How they interact and modulate the motor system. ESCOP conference, Krakow, September 2-5, 2009.
95. Pellicano, A., Iani, C., Rubichi, S., Ricciardelli, P., Borghi, A.M., Nicoletti, R. (2009) Real life motor training modifies motor performance: The advantage of being drummers. ESCOP conference, Krakow, September 2-5, 2009.
94. Burke, K., Setti, A., Liuzza, M.T., Borghi, A.M., Newell, F.N. (2009). Visuo-motor resonance in older adults. International Multisensory Research Forum 2009, City College New York City, June 29th- July 2nd.
93. Gianelli, C., & Borghi, A.M.. (2009) Engagement in action. How motor chains, goals and agents are translated in language. Poster. Third annual workshop on Concepts, Actions, and Objects: Functional and Neural Perspectives, Rovereto, Italy, 22th-25th of April, 2009.
92. Scorolli, C., Borghi, A.M. & Nicoletti, R. (2009) *Abstract and concrete sentences in German and Italian*. Poster. Third annual workshop on Concepts, Actions, and Objects: Functional and Neural Perspectives, Rovereto, Italy, 22th-25th of April, 2009.
91. Lugli, L., Baroni, G., Gianelli, C., Borghi, A.M., Nicoletti, R. (2009) Good things to me but not bad ones to others. Workshop: Enacting intersubjectivity. Paying the way for a dialogue between cognitive science, social cognition, and neuroscience. Lugano, February 13-14, 2009.
90. Gianelli, C., Borghi, A.M. (2008). Il linguaggio dell'azione: Catene motorie e simulazione. AIP, XIV Congresso Annuale Associazione Italiana di Psicologia, sez. Sperimentale, Padova, Sept. 18-20.
89. Scorolli, C., Borghi, A.M., Glenberg, A.M. (2008) Le parole hanno un peso. AIP, XIV Congresso Annuale Associazione Italiana di Psicologia, sez. Sperimentale, Padova, Sept. 18-20.
88. Lugli L., Baroni G., Gianelli C., Borghi A. M., Nicoletti R. (2008) Linguaggio e azione: Il ruolo della social politeness. AIP, XIV Congresso Annuale Associazione Italiana di Psicologia, sez. Sperimentale, Padova, Sept. 18-20.

87. Caligiore, D., Borghi, A.M., Parisi, D., & Baldassarre, G. (2008). Affordances and compatibility effects: a neural-network computational model. In Mayor Julien, Ruh Nicholas, Plunkett Kim (orgs.), *The 11th Neural Computation and Psychology Workshop*. University of Oxford, Oxford, UK, 16-18 July 2008 University of Oxford, Oxford, UK.
86. Baroni, G., Freina, L., Pellicano, A., Borghi, A.M., Rumiati, R., Nicoletti, R. (2008). How do we React to Gain- and Loss-Words? An Experimental Study on Economic Concepts. Bari, *Giornata di Studio su Emozioni e Decisioni*, May 22-23, 2008
85. Kalenine, S., Bonthoux, F., Borghi, A.M. (2007). How action and context priming influence categorization: a developmental study. *Workshop Concepts, action and objects*, Rovereto, April 24-27, 2008.
84. Scorolli, C., Borghi, A., Glenberg, A. (2007). Effects of language on bimanual objects lifting. (poster). Roma, *Novembre 28-29. Quarto convegno dell'Associazione Italiana di Scienze Cognitive AISC*.
83. Baroni, G., Freina, L. Borghi, A., Nicoletti, R. (2007). Come reagisco se leggo "ragno"? E "torta" Un'indagine sui movimenti di attrazione e repulsione. (poster). Roma, *November 28-29. Quarto convegno dell'Associazione Italiana di Scienze Cognitive AISC*.
82. Borghi, A., Riggio, L. (2007). Affordances “stabili” e “temporanee” nella comprensione del linguaggio. Como, *AIP*, September 17-19.
81. Setti, A., Borghi, A., Tessari, A. (2007). L'informazione sull'azione e il movimento in concetti di animati e inanimati. Como, *AIP*, September 17-19.
80. Scorolli, C., Glenberg, A., Borghi, A., Setti, A. (2007). Effetti del linguaggio sulla percezione e sulla valutazione del peso. Como, *AIP*, September 17-19.
79. Bazzarin, V., Freina, L., Borghi, A., Nicoletti, R. (2007). Gabbiani rossi volano nel bianco tramonto... C'è qualcosa che non va?. Como, *AIP*, September 17-19.
78. Setti, A., Borghi, A., Tessari, A. (2007). Motion and action in animate and inanimate objects. *ESCOPE conference*, Marseille, 29 August-2 September.
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