

# Luca Lorenzo Bonatti



ICREA Professor @ Universitat Pompeu Fabra, Barcelona  
Professor @ Università Ca' Foscari, Venice

Ramon Trias Fargas, 25-27  
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<b>Nationality</b>	Italian
<b>Passport</b>	G379393 (Italian)
<b>Nie</b>	X6985827Z (Spain)
<b>Orcid</b>	0000-0001-8624-9007

## Research Topics

Logical and probabilistic reasoning in infants. Models of deductive reasoning. Natural categorization in infants. Word and rules in language learning. Linguistic constraints on statistical computations. Improving education by using evidence-based educational methods. Mental representation of elementary physical phenomena.

## Education

- 1993 Rutgers University, New Brunswick, NJ. Ph. D. Dissertation Director: Prof. Jerry Fodor. Dissertation Committee: Prof. Jerry Fodor, Prof. Stephen Stich, Prof. Martin Braine, Prof. Robert J. Matthews.
- 1985 Università degli Studi di Milano, Italy. "Laurea" in Philosophy of Language. Dissertation Director: Prof. Andrea Bonomi (110/110 cum laude)
- 1980 Classical Lyceum G. Berchet, Milan, Italy. Classical Graduation (60/60).

## Current Position

ICREA Research Professor at Universitat Pompeu Fabra, Barcelona, Spain.

## Other Positions held

- 2019-20 University Ca' Foscari, Venice (Italy), Full Professor (50% dedication)
- 2007-9 University of Nantes (France). Full Professor. Chair of Developmental Psychology.
- 2007-8 University of Verona (Italy), Doctoral School in Sport Medicine: Invited Professor.
- 2001-7 SISSA, Trieste (Italy): Associate Professor.
- 2006 University of Udine, Department of Medicine, Invited Professor (June).
- 2005 University of Palma, Spain, Invited Associate Professor (May, June).
- 96-07 University of Paris VIII, Paris (France). Maitre de Conference 1st Class (Tenured Associate Professor, advanced class). Chair of General Psychology.
- 2000 SISSA, Trieste (Italy): Invited Professor (April, June).
- 97-98 New York University, Psychology Department. Visiting Assistant Professor.
- 94-96 CNRS (National Research Council), Laboratoire des Science Cognitives et Psycholinguistique, Paris (France). Marie Curie Fellow.
- 1995 Cognitive Science Program University of Budapest, Hungary, Visiting Professor (Fall Semester)
- 93-94 Dipartimento di Scienze Cognitive, Ospedale S. Raffaele, Milano (Italy). Associate Researcher.
- 92-94 Ministero della Ricerca e dell'Università (Italy), Research Abroad Fellow.
- 91-92 Rutgers University, Philosophy Department: Teaching Assistant with full class responsibilities (Logic 200, Hume and Kant 300, Introduction to Philosophy 100)
- 89-90 Rutgers University, Research Fellowship
- 87-89 Rutgers University: Teaching Assistant with full class responsibility



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1986 Civico Liceo Scientifico, Milano (Italy). History and Philosophy teacher.

## Personal Fellowships and Professional Recognitions

- 2012 *Best Published Research of the Year* by the Organization of Human Brain Mapping published in *NeuroImage* for Reverberi et al. (2012)
- 2012 Selected among the Top 8 best investigations conducted in Spain by *La Vanguardia* (Premio Vanguardia de la Ciencia)
- 2011 Ranked as #40 in the Top 100 Scientific Stories of the Year by *Discover Magazine*
- 2011 Obtained the Cover Page of *Science Magazine*.
- 1994-5 EEC Marie Curie Research Individual Fellowship
- 1990-3 Ministero della Ricerca e Università Italy, "Borsa per studio e perfezionamento all'estero"
- 1990-91 Rutgers University Teaching Assistantship
- 1989 Rutgers University Graduate Fellowship
- 1987-88 Rutgers University Graduate Award and Teaching Assistantship

## Contributions to Refereed Journals and Grant Agencies

- 1998-02 *Cognition*, Editorial Board Member.
- 1996+ Guest Referee for *Science*, *Proceedings of the National Academy of Science*, *Nature Communication*, *Science Advances*, *Psychological Review*, *Cognitive Psychology*, *Psychological Science*, *Cognition*, *Journal of Memory and Language*, *Developmental Psychology*, *Developmental Science*, *Cognitive Development*, *Thinking and Reasoning*, *Infancy*, *Psychonomic Bulletin & Review*, *Journal of Experimental Psychology: General*, *Brain and Behavior*, *International Journal of Behavioral Development*, *Philosophical Psychology*, *Language Learning & Development*, *Wires Cognitive Science*, *Journal of Neurolinguistics*, *PLOS One*.
- 2000 Referee for the quality Committee of the *École Normale*, Paris.
- 2003+ Guest Referee for projects presented to the *National Science Foundation*
- 2006+ Guest Referee for the *Hungarian Scientific Research Fund* (OTKA)
- 2007 Panel Member, *European Research Council Ideas Work Programme*
- 2009 Panel Member, *Regione Piemonte Human Sciences Grant Committee*.
- 2010+ Guest Referee for the Spanish *ANEP* (*National Evaluation and Foresight Agency*)
- 2016 Guest Referee for the *Agencia Nacional de Investigación e Innovación*, Uruguay
- 2016 Guest Expert for the *MacArthur Fellows Program*, U.S.
- 2017 Guest Expert for the *Regione Piedmont funding projects*, Italy
- 2019 Guest Referee for the *Israel Science Foundation*, Israel

## Teaching Experience

30 years of teaching at the undergraduate, master and graduate level in the U.S., Italy, France, Spain, The Netherlands and Hungary, on several topics in psychology and philosophy (Early Infant Cognition, Psychology of Language; Introduction to Cognitive Science; Advanced topics in Cognitive Science; Statistics; Thinking and Reasoning; The Psychology of Deduction; Infant Cognition; Introduction to Logic; Introduction to Philosophy; Hume and Kant).

## Other professional experiences

- 2019 Expert referee for Full Professor positions, University of Trento, Italy



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- 2018 Jury Member for Researcher Positions, University of Trento, Italy
- 2017 Rapporteur for the position of Full Professor, Université Paris Descartes, Paris, France. Jury member.
- 2017 Expert evaluator of research projects for the Piedmont region, Italy
- 2015-6 Member of Professor Position Jurys, Università Milano Bicocca, Italy
- 2014 ISOLDE Summer School, University of Potsdam, July 7-14: Faculty Member
- 2012 University of Utrecht, LOT Summer School, Faculty Member
- 2015-17 Latin American School of Education, Cognitive and Neural Sciences (funded by James S. McDonnell Foundation). Faculty Member.
- 2013 Member of Researcher Position Jury, University of Trento, Italy
- 2010 Member of the Committee for Full and Associate Professorship at the University of Paris 8, France.
- 2002+ American Psychological Society, Invited Member.
- 1995+ Behavioral and Brain Science Associate
- 1988-90 Garzanti Editore Publisher, Milan (Italy), Translator and Consultant
- 1985-7 Montedison, Progetto Cultura, Milan. Author and Consultant
- 1983 A. Mondadori Publisher, Milan, Italy, Translator and Consultant
- 1982 F. Muzzio Publisher, Milan, Italy: Translator

## Papers submitted and in preparation

(\* Principal Investigator)

### Under review

- Canudas Grabolosa, I., Chierchia, G. & Bonatti, L. L. Exhaustification in the Language of Thought. (Data collected and analyzed; paper under review).
- Galusca, C. Papeo, L. & **Bonatti, L.L.** \* *The effect of ostensive communication on immediate and delayed memory of novel and familiar action patterns.* Under Review.
- Galusca, C. Guida-Forneas, M., Ibanez-Lillo, A. & **Bonatti, L.L.** \* *The role of ostensive signals in the rapid acquisition of verbal information in 5 yr old children.* Under Review.
- Canudas Grabolosa, I. Pagliarini, E., & **Bonatti, L.L.** \*, *Interpreting conjunctions and numerals at 3 years: evidence for a common logical operation.* Under Review

### In Preparation

- Martín Salguero, A., Gervain, J, Solari, A., & **Bonatti, L.L.** \*. *Neural representations and behavioral markers of logical structure in preverbal infants*, Data collected and analyzed. Draft available
- Martín Salguero, A., Mascarenhas, S., Solari, A., & **Bonatti, L.L.** \*. How we represent the unknown: possibilities vs simulations, In preparation
- Galusca, C, Vitale, A. & **Bonatti, L.L.** \* *Ostensive cues and learning mechanism: The effect of eye contact on the retention of information.* Data collected and analyzed. Draft available.
- Canudas Grabolosa, I. Pagliarini, E., Chierchia, G. & **Bonatti, L.L.** \* *Perception of entailment in numerals, 'and' and 'or'.* Data collected and analyzed. Draft available.
- Pi Casaus, G., Werker, J., Sebastián-Gallés, N. & **Bonatti, L.L.** \* *Phonological Convergence in Bilinguals and Monolinguals: How experience modifies and does not modify perceptual narrowing.* Data collected and analyzed. Draft available.



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Canudas-Grabolosa, I, Pagliarini E, Chierchia G and Bonatti L.L.\* (2022). *Children's Understanding of Entailment*, Data collected and analyzed.

## PsychArxiv papers

Gomez-Vazquez, D. & **Bonatti, L.L. \***, *Coherence and telicity in adults' event representations*, Draft available (PsychArxiv).

Galusca, C. Papeo, L &. **Bonatti, L.L \*** *The effect of ostensive communication on immediate and delayed memory of novel and familiar action patterns. Draft available (PsychArxiv).*

## Published Papers

(\* Corresponding author)

### Articles on High Impact peer-reviewed journals

Bohus, K. A., Cesana-Arlotti, N., Martín-Salguero, A., & **Bonatti, L. L.\*** (2023). The scope and role of deduction in infant cognition. *Current Biology*, 33(18), 4014-4020.e5.

Martín-Salguero, A., Reverberi, C., Pallier, C., Solari, A., Filippin, L., & **Bonatti, L.L.\*** (2023), Seeing Inferences: Brain dynamics and oculomotor signatures of non-verbal deduction, *Scientific Reports*, 13, 2341.

Canudas-Grabolosa, I., Martín-Salguero, A., & **Bonatti, L. L.\*** (2023). Natural logic and baby LoTH. *Behavioral and Brain Sciences*, 46, e266.

Canudas Grabolosa, I., Pagliarini, E., Chierchia, G., & **Bonatti, L.L.\*** (2022). Children's Understanding of Entailment in Conditionals. In Y. Gong & F. Kpogo (Eds.), *Proceedings of the 46th annual Boston University Conference on Language Development* (pp. 90-102). Cascadilla Press.

Ferres-Forga, N.,\* Halberda, J., Batalla-Ferres, A., & Bonatti, L. L. (2022). Improving Mathematics Performance in 7-Year-Old Children: Training the Mapping From Estimated Quantities to Arabic Digits. *Journal of Numerical Cognition*, 8(1), 123-147.

Cesana-Arlotti N\*, Martín A\*, Vorobyova L., Cetnarski R., Téglás E. & **Bonatti, L.L.\*** (2018). Precursors of logical reasoning in human infants, *Science*, 359(6381), 1263-1266.

Endress, A. D., Korjoukov, I., & **Bonatti, L. L.** (2017). Category-based grouping in working memory and multiple object tracking. *Visual Cognition*, 1-20.

Téglás, E., & **Bonatti, L. L.\*** (2016). Infants anticipate probabilistic but not deterministic outcomes. *Cognition*, 157, 227-236.

Endress, A., & Bonatti, L. L. (2016). Words, rules, and mechanisms of language acquisition, *WIREs Cognitive Science*, 7:19–35.

**Bonatti, L.L. \***, Cherubini, P., & Reverberi, C. (2015). Nothing new under the sun, or the moon, or both. *Front. Hum. Neurosci.*, 9: 1-4

Téglás, E., Ibanez-Lillo, A., Costa, A., & **Bonatti, L. L.\*** (2015). Numerical representations and intuitions of probabilities at 12 months. *Developmental Science*, 18(2), 183-193.

Marchetto, E., & **Bonatti, L. L.\*** (2014). Finding words and word structure in artificial speech: the development of infants' sensitivity to morphosyntactic regularities. *Journal of Child Language*, 1-30.

Marchetto, E. & **Bonatti, L.L.\*** (2013). Words and possible words in early language acquisition. *Cognitive Psychology*, 67(3), 130-150.



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- Cesana-Arlotti, N., Téglás, E., & Bonatti, L. L.\* (2012). The Probable and the Possible at 12 Months: Intuitive Reasoning about the Uncertain Future. *Advances in child development and behavior*, 43, 1-25.
- Reverberi, C., Bonatti, L. L., Frackowiak, R. S., Paulesu, E., Cherubini, P., & Macaluso, E. (2012). Large scale brain activations predict reasoning profiles. *Neuroimage*, 59(2), 1752-1764.
- Téglás, E., Vul, E., Girotto, V., Gonzalez, M., Tenenbaum, J. B.\*, & Bonatti, L. L.\* (2011). Pure reasoning in 12-month-old infants as probabilistic inference. *Science*, 332(6033), 1054-1058.
- Levillain, F., & Bonatti, L. L.\* (2011). A dissociation between judged causality and imagined locations in simple dynamic scenes. *Psychological Science*, 22(5), 674-681.
- Reverberi, C.\*, Shallice, T., Skrap, M., D'Agostini, S. & Bonatti, L.L. (2009) Cortical Basis of Elementary deductive reasoning. *Neuropsychologia*, 47, 4,1107-1116.
- Toro, J. Nespors, M, Mehler, J. & Bonatti, L.\* (2008) Finding words and rules in a speech stream, *Psychological Science*, 19(2), 137-144
- Teglas, E. Girotto, V., Gonzalez, M. & Bonatti, L.L.\* (2007). Intuitions of probabilities shape expectations about the future at 12 months and beyond. *Proceedings of the National Academy of Science*, 104: 19156-19159.
- Bonatti, L.L.\*, Pena, M., L. L., Nespors, M., & Mehler, J. (2007) On consonants, vowels, chickens and eggs. *Psychological Science*, 18(10), 924-5.
- Endress, A, & Bonatti, L.L. (2007) Rapid learning of syllable classes from a perceptually continuous speech stream. *Cognition*, 105 (2), 247-299.
- Mehler, J., Bonatti, L. L., Peña, M., & Nespors, M. (2006) The Soul of Language does not Use Statistics, *Cortex*, 42, 846-854
- Bonatti, L.L.\*, Pena, M., L. L., Nespors, M., & Mehler, J. (2006) Generalization, segmentation and language learning : How to hit Scylla without avoiding Charybdis. *Journal of Experimental Psychology: General*, Vol. 135, No. 2, 314 -321.
- Bonatti, L.L.\*, Pena, M., L. L., Nespors, M., & Mehler, J (2005). Linguistic constraints on statistical computations. The role of consonants and vowels in continuous speech processing, *Psychological Science*, 16 (6) 451-9.
- Bonatti, L.L.\*, Frot, E. & Mehler, J. (2005). What face inversion does to infants' counting abilities. *Psychological Science*, 16(7),506-11.
- Pena, M., Bonatti, L. L., Nespors, M., & Mehler, J. (2002). Signal-driven computations in speech processing. *Science*, 298(5593), 604-607
- Bonatti, L.L.\*, Frot, E., Zangl, R., & Mehler, J. (2002). The human first hypothesis: Identification of conspecifics and individuation of objects in the young infant. *Cognitive Psychology*, 44(4), 388-426.
- Bonatti L.L.\* (1997). How far beyond modularity? *Behavioral and Brain Sciences* 20(2) 351-353.
- Bonatti L.L.\* (1996). SHRUTI's ontology is representational. *Behavioral and Brain Sciences* 19(2) 326-328.
- Bonatti, L.L.\* (1998), Review of N. Smith and I-M Tsimpli, "The Mind of a Savant", *Journal of Linguistics*, March, 271-280.
- Bonatti L.L.\* (1994). Why should we abandon the mental logic hypothesis? *Cognition* 50(1-3) 17-39.
- Bonatti L.L.\* (1994). Propositional reasoning by model? *Psychological Review* 101(4) 725-733



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### Other articles on peer-reviewed journals

- Bonatti, L. L. (2019). Due passi avanti, uno indietro e poi altri tre avanti. *Giornale italiano di psicologia*, 4/2019), 779-786.
- O'Brien, D. P., & Bonatti, L.L.\* (1999). The semantics of logical connectives and mental logic. *Current Psychology of Cognition*, 18(1), 87-97.
- Bonatti L.L. \* (1991). Il linguaggio del pensiero. *Linea d'Ombra*, pp. 79-84
- Bonatti L.L.\* (1988). Senses and non-senses, *Teoria*, pp. 35-68

### Book chapters and conference proceedings

- Canudas-Grabolosa, I, Pagliarini E, Chierchia G and Bonatti L.L.\* (2022). Children's Understanding of Entailment in Conditionals. In BUCLD 46: Proceedings of the 46th Annual Boston University Conference on Language Development. Cascadilla Press. Somerville, MA
- Bonatti L.L.\* (2008) On Pigeons, Humans, Language and the Mind, in P. Carruthers, S. Laurence & S. Stich (eds.), *The Innate Mind: Foundations and Future*, Oxford University Press, 2008, pp. 216-231.
- Bonatti L.L.\* (2002). Raisonnement prédicatif. In G. Politzer (Ed.) *Traité de Sciences Cognitives: Le Raisonnement*. Paris: Hermès, pp 137-183.
- Bonatti L.L.\* (2001). Representations Psychological Reality and Beyond. In E. Dupoux (Ed.) *Language Brain and Cognitive Development* (pp. 41-46). Cambridge: MIT Press.
- Bonatti L.L.\* (1998). Why it took so long to bake the mental-logic cake: Historical analysis of the recipe and its ingredients. In M. D. S. Braine & D. P. O'Brien (Eds.) *Mental logic* (pp. 7-22). Mahwah NJ USA: Lawrence Erlbaum Associates Inc. Publishers.
- Bonatti L.L.\* (1998). What the mental logic-mental models controversy is not about. In M. D. S. Braine & D. P. O'Brien (Eds.) *Mental logic* (pp. 435-445). Mahwah NJ USA: Lawrence Erlbaum Associates Inc. Publishers.
- Bonatti L.L.\* (1998). Possibilities and real possibilities for a theory of reasoning. In Z. Pylyshyn (Ed.) *Essays on Representations* (pp. 85-119): Ablex.
- Bonatti L.L.\* (1995). Why should we abandon the mental logic hypothesis? In J. Mehler & S. Franck (Eds.) *Cognition on cognition*. (pp. 109-131). Cambridge MA USA: The Mit Press.
- Bonatti L.L.\* (1991) Introduzione a W.V. Quine, *Quidditates Garzanti* (pp. 1-45).
- Bonatti L.L.\* (1990). Verso una comunità filosofica. in Alferj, P. e Pilati, A. (Eds.), *Conoscenza e complessità*, Teoria, Roma, pp. 167-207

### Editorial works and Translations

- E. Dupoux (Ed.) *Language Brain and Cognitive Development*. Cambridge: MIT Press. Reasoning and Thinking section Editor.
- J. Fodor, *La mente non funziona così*. Roma-Bari, Laterza 2001. Editor.
- W.V. Quine, *Quidditates Garzanti* 1991 Editor and translator.
- M. Kline, *Matematica: la perdita della certezza*, OUP-Mondadori 1984 (Editor and translator)

### Dissertations

- L. Bonatti (2006), *Elements d'une langage de la pensée*, Dissertation for the qualification to the title of Full Professor, University of Paris VIII.
- L. Bonatti (1993), *Psychophilosophical issues on Reasoning*. Rutgers University, Ph.D. Thesis



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L. Bonatti (1986) *Intuizionismo, teoria del significato, costruttivismo*. Philosophy Department, University of Milan, "Laurea" Dissertation.

#### Technical Documentation

L. Bonatti, L. Fillippin & G.Papp, The PsyScope TobiiPlus Manual. Available at <http://psy.cns.sissa.it>

L. L. Bonatti & L. Filippin (2007), The PsyScope USB Bbox module: a Software manual. Available at <http://psy.cns.sissa.it>

J. Gervain, L. Bonatti, & L. Filippin (2009): *The PsyCode Software Manual*. Available at <http://psy.cns.sissa.it>

#### Posters in peer-reviewed conferences

Posters authored with my students and collaborators have been accepted at many major professional conferences, where they have also received awards. I do not keep track of posters.

### Theses Supervision

#### Currently supervised Ph.D. Theses:

K. Bohus, *Computational Explorations into Early Logical Reasoning*

D. Diaz, *Reasoning and categorization*

L. Mushi, *Possibility in early reasoning*

A. Alemany. *Or and All in a language of thought*

A. Moreno. *Neuropsychological correlates of the representation of the unknown.*

#### Currently co-supervised Ph.D. Theses:

Simone Melis, *Universitat de Barcelona, Philosophy Department*

Aina Bonet, *Universitat Oberta de Catalunya, Linguistics Department*

#### Completed Ph.D. Theses (10)

2021 Jul. 15: Universitat Pompeu Fabra

I. Canudas Grabolosa, *Between logic and language: a quest for primitives of thought.* Thesis qualified EXCELLENT cum laude.

2021 Mar. 29: Universitat Pompeu Fabra

A. Martín, *Behavioral and Neural Correlates of Logical Inferences.* Thesis qualified EXCELLENT cum laude.

2019 Jan. 15 : Universitat Pompeu Fabra

C. Galusca, *Cultural Animals: The role of ostensive cues in the acquisition of knowledge.* Thesis qualified EXCELLENT cum laude.

2017 Jan 12: Universitat Pompeu Fabra

N. Ferres Forga, *Improving mathematical abilities by training numerical representations in children: the relation between learning mathematics and numerical cognition.*

2017 Feb 14: Universitat Pompeu Fabra

Alexandra Ibanez-Lillo, *Labeling, Word Mapping and Categorization in Monolingual and Bilingual Infants.*

2016, Jan 15: Universitat Pompeu Fabra

Nicolò Cesana-Arlotti, *The Origin of Logical Concepts.* Thesis qualified EXCELLENT cum laude.



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- 2016, Jan 15: Universitat Pompeu Fabra  
Gisela Pi-Casaus, *The role of experience in perceptual reorganization. The case of bilingual infants*. Thesis qualified EXCELLENT cum laude.
- 2010, Jan 13: Sissa/Isas  
Ernö Teglas. *From logic to probability: An investigation into the origins of probabilistic reasoning*. Sissa/Isas, Trieste
- 2009, Dec: Sissa/Isas  
Erika Marchetto: *Discovering words and rules from artificial speech streams: An investigation into early morphosyntactic acquisition mechanisms*. Sissa/Isas, Trieste,
- 2008, Dec: Université de Paris 8  
Florent Levillain, "*Poursuivre des chimères : Limitations de l'imagerie dynamique*". Université de Paris 8. These granted "Mention très honorable avec félicitations".

### Completed Master Theses

- 2024 Abel Capdevila Piquer, *Is disjunction inherently human or inherently linguistic?*, Universitat Pompeu Fabra, Barcelona ES
- 2023 Giovanni Lumericisi, *On The Oculomotor And EEG Markers Of Representing The Unknown*, Universitat Pompeu Fabra, Barcelona ES
- 2023 Munther Ahmed, *On The Philosophical Depth of Tubes*, Universitat Pompeu Fabra, Barcelona ES
- 2023 Javier Aranda, *Oculomotor Markers of the Representation of the Unknown: An Analysis of the Non-Betting Strategy*. Universitat Pompeu Fabra, Barcelona ES
- 2022 Alberto Moreno Santos, *Electrophysiological and oculomotor markers of the representation of the unknown: an analysis of the betting strategy*, Universitat Pompeu Fabra, Barcelona ES
- 2022 Alex Alemany Munoz, *The Mental Representation of Uncertainty: A Study with Oculomotor Measurements*. Universitat Pompeu Fabra, Barcelona ES
- 2020 Diana Gomez Vasquez, *A first approach to the cognitive and linguistic representation of event structures*, Universitat Pompeu Fabra, Barcelona ES
- 2019 Blanca García García, *Negation: concept, language and acquisition* Universitat Pompeu Fabra, Barcelona ES
- 2018 Mark McGuill, *Exploring the Underlying Representations of Infant Cognition using Connectionist Networks* Universitat Pompeu Fabra, Barcelona ES.
- 2017 Daniel Leon, *The acquisition of negation in Spanish*. Universitat Pompeu Fabra, Barcelona ES.
- 2016 Irene Canudas Grabolosa, *The acquisition of morphosyntactic dependencies*, Universitat Pompeu Fabra, Barcelona ES.
- 2016 Martín Guida Fornea, *On Fast mapping in infants and the role of the ostensive cues*, Universitat Pompeu Fabra, Barcelona ES.
- 2015 Kinga Anna Bohus, *Disjunctive Syllogism in Infants: a Multimodal Study*. Universitat Pompeu Fabra, Barcelona ES.
- 2015 Ryszard Cetnarski, *Eye tracking measure for inferential processes in adults*. Universitat Pompeu Fabra, Barcelona ES.
- 2015 Pedro Tiago da Silva Gonçalves Martins, *Generalizing rules over clicks*. Universitat Pompeu Fabra, Barcelona ES.





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- 2014 Elizabeta Vorobyova, *Disjunctive Reasoning in 12-Month-Old Infants* Universitat de Barcelona, Barcelona ES.
- 2014 Katya Mehta, *Demystifying Neomotization: Parasynthetic Word Formation By English- And Spanish-Speaking Adults*. Universitat Pompeu Fabra, Barcelona ES.
- 2013 Núria Ferres-Forga, *Word Learning and Disjunctive Reasoning*, Universitat Pompeu Fabra, Barcelona ES.
- 2010 Gisela Pi Casaus, *Phonological convergence of consonants in bilinguals: A preliminary study* Universitat Pompeu Fabra, Barcelona ES.
- 2002 Florent Levillain *Contraintes sur la perception du mouvement*, Université de Paris 8
- 2001 Sonia Abbes, *Humain et objet chez l'enfant de 5 mois*. Université de Paris 8
- 2000 Emmanuel Frot *Catégories naturelles chez le jeune enfant*. Université de Paris 8

#### **BA Theses (laurea)**

- 2021 Elisabetta Toaldo, *Produzione e comprensione di strutture linguistiche complesse: uno studio su due fratelli con diagnosi di DSA*, Università Ca' Foscari, Italy,
- 2009 Francesca Gandolfo, *Early Language Acquisition and Cognition: Methods and Results*. University of Venice, Italy
- 2002 Eva Viti, *Il Ragionamento Deduttivo Naturale*, Université de Trieste, Italy.
- 2001 Florent Levillain, *La perception de la Causalité*. Université de Paris 8.
- 1997 Emmanuel Frot, *Le concept d'objet chez le bébé de dix mois*. Université de Paris 8.

#### **Participation to Ph. D. Jurys**

- 2002+ Jury member in several Dissertation Committees at Sissa/ISAS, Trieste, Italy (Cristina Rosazza, 2005; Anna Montagnini, 2004; Alessia Tessari, 2004; Andrea Dalla Chiesa, 2003; Elisa Margotti, 2002)
- 2010+ Dissertation Committee Jury member at the Universitat Pompeu Fabra, Barcelona, Spain (Barbara Albareda, 2010)
- 2012 Dissertation Committee Jury Member at the Universitat de Barcelona (David Lobina, June 2012)
- 2012 Dissertation Committee Jury Member at the University of Utrecht, The Netherlands (Natalie Boll-Avetisyan, April 2012)
- 2013 Dissertation Committee Jury President at the University of Barcelona, (Diana Lopez-Barroso, November 2013)
- 2014 Dissertation Committee External Expert, University of Venice, Italy. (Patrizia Tortella, November 2014)
- 2015 Dissertation Committee, Vocal Member at the University of Barcelona, (Eric Johnson, July 9 2015)
- 2016 Dissertation Committee advisor, Universidad Pontificia de Chile, Santiago (Cristina Jara).
- 2016 Dissertation "Rapporteur" and Committee member, Université Sorbonne. Paris (Claire Kabdebon).
- 2019 Dissertation Committee member, Universidad Pontificia de Chile, Santiago (Cristina Jara, January 2019)
- 2019 Dissertation External Examiner and Committee member, Central European University, Budapest (Eszter Szabo, September 6 2019).
- 2019 Dissertation Committee Jury President, Universitat Pompeu Fabra (Marc Colomer, October 2019)



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2024 Dissertation Committee Jury President, Universitat Pompeu Fabra (Gonzalo Garcia-Castro, March 2024)

### **Participation to Jurys for the attribution of permanent positions in Universities**

CNRS and Université de Marseille, France -- "Rapporteur" for the "Habilitation à Diriger les Recherches" (Isabelle Dautriche, Jan 2023)

CNRS and ENS, Paris, France -- "Rapporteur" for the "Habilitation à Diriger les Recherches" (Salvador Mascarenhas, December 2021)

CNRS and Université CLAUDE BERNARD LYON 1, France -- "Rapporteur" for the "Habilitation à Diriger les Recherches" (Jean Remy Hochmann, November 2021)

CNRS and University Marie Curie, Paris, France -- "Rapporteur" for the "Habilitation à Diriger les Recherches" (Véronique Izard, May 2018)

University of Paris VIII, France -- Jury member for the attribution of Full Professor Positions

Università Milano Bicocca -- Jury member for the attribution of an Assistant Professor position (Associato)

Università di Trento -- Jury member for the attribution of Researcher positions (Ricercatore)

Università Ca' Foscari (Venice)-- Jury member for the attribution of Researcher positions (Ricercatore)

Johns Hopkins University, Baltimore, MD -- External Expert for the attribution of Full Professor Positions

### **Other scientific responsibilities**

#### **Scientific Software Development**

- PsyScope X Project Co-ordinator-- Project coordinator of a network of 40 Universities and 500 testers, to develop a free GNU software for designing experiments and handling external devices (fMRI, Eye Tracker, ERPs, response boxes). See <http://psy.cns.sissa.it>.
- Author of programs of data analysis for infant experiments.

#### **Master Creation and Direction**

- 2012-16: Responsible for creating a new Master in Brain and Cognition, Universitat Pompeu Fabra: Proposal presentation, Organizer and coordinator. The Master is now the second most successful Master at Universitat Pompeu Fabra (>120 applications for 20 places)
- 2022- 24 Master in Brain and Cognition, Universitat Pompeu Fabra: Master co-Director

#### **Organization of congresses and International seminars**

2022 Jul 4-7 McDonnell Foundation Grant Plenary Meeting, Venice. Co-organizer (with S. Carey)

2021-23 CBC Seminar Series organizer (UPF, Barcelona)

2021 *Neuropsychological bases of Logical Abilities*. McDonnell Foundation Grant Plenary Meeting, Virtual meeting, Jul 11-12. Co-Organizer (with S. Carey)

2018 *Conceptual Primitives of Quantification*. McDonnell Foundation Grant Plenary Meeting, Barcelona, Jul 11-12. Co-Organizer (with S. Carey and P. Pietroski)

2018 *Investigations into non-standard Logical Primitives*. McDonnell Foundation Grant Restricted Seminar, Barcelona, Jul 13-14. Organizer



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- 2017 McDonnell Foundation Grant Focused Seminar on Logical Thinking, Budapest, Co-Organizer (with S.Carey)
- 2015 McDonnell Workshop on the Origin of Combinatorial Thought , Boston, May 1-3: Co-organizer (with Susan Carey)
- 2014 ICREA Conference on Baby Logic and Related topics, Barcelona, Sept 14-16: Organizer
- 2010-12 Brainglot Seminar Series organizer (UPF, Barcelona)
- 1997: 5-9 Sept. Conference "*Cognitive Growth and Development*", SISSA, Trieste. (with S. Carey and J. Mehler)

### **Expert for international meetings**

- 2022: BCCCD 2022, Budapest Ceu Conference On Cognitive Development, Guest Referee.
- 2022: COGSCI 2022 The Annual Meeting Of The Cognitive Science Society, Guest Referee.
- 2016: COGSCI 2016, The Annual Meeting Of The Cognitive Science Society, Committee Member.
- 2005: Guest referee pour COGSCI2005- Stresa, Italie

### **Participation to funded projects**

- 2023-25 MINECO Grant Seeing inferences: Behavioral, linguistic and neuropsychological evidence for primitives of thought" (PID2022-136925NB-I00 funded by MICIU/AEI/10.13039/501100011033 and by "ERDF A way of making Europe", "ERDF, EU") Role: Principal Investigator (PI) 200.625 €
- 2023-24 Ministero della Scienza, Italy: PRIN. Role: PI. Funds allocated: 165.596 €; total grant: 288.274 €.
- 2022-25 Generalitat de Catalunya, Suport a les activitats dels Grups de Recerca (SGR 2021). Role: Participating Researcher. Funds allocated: 20.000 €. (PI: G. Deco. Total grant: 60.000 €).
- 2022 Harvard- McDonnell Foundation Network Network Grant, Conference Award (Role: PI/ Organizer, 54.597 €)
- 2021-22 Harvard- McDonnell Foundation Network Network Grant, Research and personnel subcontract (Role: PI, 72.760 €)
- 2021-22 Marie Sklodowska-Curie Action: PREDICTABLE Project: (Role: PI: 32.791,62 €)
- 2020-22 MINECO Grant, "Primitivos (Psico)lógicos" (PID2019-108494GB-I00) Role: PI (217.800 €).
- 2019-22 Università Ca' Foscari, Venezia, Fondi Primo insegnamento (Role: PI. 20,000 €).
- 2019-20 Harvard- McDonnell Foundation Network Research, Research Seed Funds (Role: PI. 20,000 \$).
- 2018-20 Generalitat de Catalunya, Suport a les activitats dels Grups de Recerca (SGR 2017). Role: Participating Researcher. Funds allocated: 15.298 €. (PI: A. Costa. Total grant: 61.192 €).
- 2017-19 MINECO Grant, "Razonamiento Logico Natural: Mecanismos, Interacciones Y Errores" (PSI2016-75910-P) Role: PI (112.530 €).
- 2016-23 Harvard- McDonnell Foundation Network Grant, "Origins of abstract Combinatorial Thought". Role: European PI (US main PI: Susan Carey, Harvard University). (Total grant: 2,000.000 USD)
- 2015-20 Horizon 2020. Marie Sklodowska-Curie Action: Innovative Training Networks (ITN) Understanding and predicting developmental language abilities and disorders in



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- multilingual Europe (PREDICTABLE). Role: Participating researcher (PI: Barbara Höele, University of Potsdam). Funds handled by UPF: 743.619 €. Total project: 3,848,640 €.
- 2014-15 European Commission "Study on the impact of marketing through social media, online games and mobile applications on children's behaviour (EAHC/FWC/2013 85 08)", Role: Associate Investigator (PI: C. Codagnone) Funds handled by UPF: 65,000. Total project: 600.000 €)
- 2012-14 Information transmission in language: do infants perceive communicative intent? European Commission 7th Framework Programme. Marie Curie Program. Role:PI (Fellow: A. Endress). (226.548 €)
- 2014 ICREA Conference Award, Role:PI (20,000 €)
- 2013-15 Ministerio de Ciencia e Innovación (MICINN), *El origen de la racionalidad: representaciones logicas en la mente infantil* (PSI2012-31961). Role:PI. (128.700 €)
- 2010-13 Ministerio de Ciencia e Innovación (MICINN), *El origen de la probabilidad y de la lógica a principios de la cognición*, PSI2009-08232. Role:PI r. (170.610 €)
- 2008-11 Région Pays de la Loire (France), *Paris Scientifiques*, Projet LABOBEBE. Role: PI. (I turned down the grant due to my decision to leave Nantes) (300,000 €)
- 2008-15 Regione Friuli Venezia Giulia, "PsyScope XL: A novel software for designing experiments". Role:PI. (595.699 €).
- 2005-8 EU CALACEI Grant, Associate Researcher (Principal Investigator: J. Mehler)
- 2006 Regione Friuli Venezia Giulia "Creazione di software sperimentale e integrazione con dispositivi di neuroimmagine". Role:PI (80,000 €)
- 2003-6 Ministero della Ricerca, FIRB (61,000 €). Role: Associate researcher. (PI: M. Nespor)
- 2002-5 PsyScope X Project (60,000 €) Role: Role:PI and coordinator.
- 2002-4 Regione Friuli Venezia Giulia, (25,000 €) Project "Identificazione dell'oggetto e identificazione della specie nel bambino" Role:PI
- 2002-4 HFSP "Processing consequences of contrasting language phonologies" (108,000 €) Role: Associate researcher. (PI: J. Mehler)

## Selected Invited Conferences

### 2025

Jan 9 BCCCD (Budapest Ceu Conference for Cognitive Development): Developmental Building Blocks of the Language of Thought. Invited Panel Discussant.

### 2023

Jan 13 Université Aix-Marseille, Marseille, France: Invited Speaker

### 2022

Oct 10-14 Fyssen Foundation Seminar, Saint-Germain en Laye, France: Invited Speaker

### 2021

Sept 10 ECLT Seminar, Venice, Italy: Invited Speaker (Virtual)

Jul 5 Barcelona Computational and Systems Neuroscience (BARCCSYN), Keynote address

Feb 24 City University London, UK Invited Speaker (Virtual)

### 2019

Jan 25 Pontificia Universidad Católica de Chile, Escuela de Psicología, Santiago, Chile. Invited Speaker

Feb 4 Collège de France, Paris. Invited Speaker, *La naissance du raisonnement*



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- June 24 McDonnell Network on the Origins of Abstract, Combinatorial Thought Plenary Meeting, Martha's Vineyard, USA. Invited Speaker
- Sept 12 International Congress "Healthy and Active Children", Verona, Italy. Plenary Lecturer.
- Sept 14 14th Generative Approaches to Language Acquisition conference (GALA 14), Milan, Italy. Keynote Address.

## 2018

- Jan 25, University of Maryland (MD), Cognitive Science Colloquium -- Invited Speaker. "Precursors of logical reasoning in preverbal infants"
- May 3, Université Marie Curie, Workshop on Numerical Cognition -- Invited Speaker
- June 9-11 McDonnell Foundation Grant Plenary Workshop on The Logic of Quantification. Co-Organizer and speaker

## 2017

- Jan 10-11 McDonnell Foundation Grant Focused Seminar on Logical Thinking, Budapest, Jan 2017. Co-Organizer and speaker
- Jan 26 DTIC Integrative Research Seminars, Universitat Pompeu Fabra: Invited speaker
- Mar 18 University of Verona, Italy Master in Early Infancy, Invited speaker
- May 3 University of Bristol, Psychology Department. Invited speaker
- June 11-14 McDonnell Foundation Grant Plenary Conference, San Diego, June 2017. Co-organizer and discussant
- Sept 8 Università di Venezia Ca' Foscari, Venice, Linguistic Department. Invited speaker.

## 2016

- Dec 14 On the Origin of Rationality, Institut Jean Nicod, Paris.
- Dec. 3 La razionalità tra psicologia, filosofia e scienze sociali: prospettive a confronto, Università di Milano Bicocca, Italy, Invited Speaker.
- Nov 16 Seminario in onore di Andrea Bonomi. University of Milan, Italy: Invited Panelist
- Aug 25 Behavioral Markers of Logical Inference, Lancaster Conference on Infant and Child Development, Lancaster, UK, Keynote Speaker.
- Jul 27 Precursors of logical reasoning in prelinguistic infants, The Meeting in Memory of Vittorio Giotto, London, UK. Invited Speaker.
- Apr 20 Methods for studying Logic in Infants, Workshop: PERCEPTION AND ACQUISITION OF LANGUAGE, Trieste, Italy. Invited Speaker.
- Feb. 24 "Come pensa un infante": Casa degli Italiani, Barcellona. Conferenza inaugurale per la Associazione de Ricercatori Italiani in Spagna, Keynote Speaker.
- Jan. 17 "Ragionamento e logica": Università di Torino, Italy, Center for Logic, Language, and Cognition, Invited Speaker.

## 2015

- Dec. 17 "Questa o quella per me pari sono": disjunctive representations in an infant mind. Cognition and Brain Plasticity Unit, Dept. Psicologia Bàsica, Universitat de Barcelona, Campus Bellvitge, Invited Speaker.
- Nov 16 Methods for studying infants' cognition: the case of logical reasoning. *Max-Planck-Institut für empirische Ästhetik Inauguration Conference, Frankfurt (DE)*, Invited Speaker
- Oct 29 RICO and Reasoning. *University of Barcelona, Bilingualistics Initiatives Barcelona*. Invited Speaker.



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- May 4 The Origins of Thought: Early Cognitive Abilities. *University of the Basque Countries, Vitoria-Gasteiz*. Invited Speaker.
- May 1 Infant Baby Logic, *Harvard University*. Invited Speaker and Conference Organizer.
- April 30 On the origin of Reasoning, *University of Massachusetts at Boston, Department of Psychology*, Invited Speaker.
- April 21 Bridging Neural Mechanisms and Cognition, *Federation of European Neuroscience Societies, The Brain Conferences, Rungstedgaard* invited speaker.
- March 27 University of Verona, Italy, Seminar on Cognition and Physical Activity, Master in Early Infancy, Invited Speaker.

### 2014

- Oct 2 *Giudizio e Decisione, University IUAV of Venice, Venice*. Invited Speaker
- May 23 *DUCOG VI Conference, Dubrovnik, Croatia*. Keynote Speaker
- Jan. 13 *On the Origin of Rationality*. Johns Hopkins University, Science of Learning Center Inauguration Symposium. Keynote Speaker
- Jan. 8 *Language and Language development*. Budapest CEU Conference on Cognitive Development. Budapest. Hungary. Panel Speaker

### 2013

- Oct. 31 *Society for Language Development, Annual Symposium, Boston*: Keynote Speaker
- Oct. 30 *On the brain representation of Logical Reasoning*, Harvard University, Cambridge, Ma, Laboratory for Developmental Studies.
- Mar 13 *Logical processes in an infant mind*. LA School for Education, Comandatuba, Brazil. Invited talk.
- Jul 4 *Reasoning and probability*. CNRS GDR Annual Meeting, Paris, France Keynote Speaker.

### 2012

- Jan 13 *Logic and Reasoning at 12 months*. Budapest CEU Conference on Cognitive Development. Budapest. Hungary. Invited talk.
- Jan 21 *Logic in an infant mind*. University of Barcelona, Faculty of Philosophy. Barcelona. Spain. Invited Talk
- March 25: *What is Cognitive Psychology?* Programa Joves i Ciència of CatalunyaCaixa, Casa Pedrera, Barcelona. Invited talk
- Apr 15 DIPSCO, S Raffaele, Milan, Italy: *Rappresentazioni interne di processi dinamici nel bambino e nell'adulto*. Invited Speaker
- Apr 23 University of Utrecht, The Netherlands: *What is a word?* Invited Speaker
- Sept 18 Sissa/ISAS, Trieste, Italy: Cognitive Modules & Interfaces Conference in honor of Noam Chomsky. Invited Speaker
- Oct.3 ICREA International Conference on Biolinguistics, Barcelona, Spain. Invited Speaker.
- Nov. 13 Lancaster University & Liverpool University, UK, MersleyLune Seminar on Cognitive Psychology and Neuroscience. Invited Speaker.

### 2011

- Jun 13 *Infants' Early Rationality*. III Joint Workshop Rutgers-Siena. Siena. Italy. Invited talk.
- May 5 *Cognition and motor development*. Faculty of Motor Sciences. Verona. Italy. Invited talk.



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Mar 7-20 San Pedro De Atacama, The Latin American School For Education, Cognitive And Neural Sciences. James S. McDonnell Foundation / Universidad De Chile. Invited Speaker and Faculty Member.

## 2010

- 5 Feb University of Utrecht, Holland, EMLAR VI. Invited Speaker
- 11 Feb University of Milan, Italy, Philosophy Department. Invited Speaker.
- 11-15 Mar International Conference of Infant Studies, Baltimore, MA. Invited Panel Speaker. Poster Presenter.
- 17 Apr University of Verona, Italy. Department of Motor Sciences. Invited speaker: *Cognition and Motricity*.
- 11-15 Aug Cogsci 2010 (Cognitive Science Society Annual Meeting, Portland, Ore.): Invited Panel Speaker. Poster Presenter.
- 13-15 Dec McDonnell Workshop on Infant Methods, Barcelona: Invited Speaker.

## 2009

- 6 Feb Institute for Research in Cognitive Science, University of Pennsylvania, Philadelphia. *Infants' intuitions of Probability*. Invited Lecture.
- 9 Feb MIT, Boston, Department of Brain and Cognitive Sciences, *Predicting the future without knowing the past: Infants' sensitivity to probabilities and statistical distributions*. Invited Lecture
- 28 Feb University of Paris 6, Laboratoire Psychologie de la Perception. *Predicting the future without knowing the past: Infants' sensitivity to probabilities and statistical distributions*. Invited Lecture
- 29 Feb Ecole Nationale Supérieure, LSCP. Invited Lecturer.
- 14 May University of Caen, France, Laboratoire MODESCO. Invited Speaker.
- 16 May University of Verona, Italy, Seminar on Cognition and Motricity. Invited Speaker.
- 25-29 May Banff International Research Station, Calgary, Canada. Workshop on "Probabilistic Models of Cognitive Development". Invited Speaker.

## 2008

- 14 March University of Sheffield, Infants' intuitions of Probability. Invited Department Lecture
- 25 March University of British Columbia at Vancouver, CA: On the limits of dynamical imagination, Invited Department Lecture
- 28 March International Conference of Infant Studies (ICIS) Vancouver, CA., Invited Official Speaker
- 6 April Stanford University, Center for Advanced Study in the Behavioral Sciences, Invited Official Speaker.

## 2007

- 5-7 Sept NSF Workshop on "Opportunities and Challenges for Language Learning and Education, Washington DC. Invited Speaker.
- 12 Jan AHRC Culture and the Mind project workshop, Lisbon. Invited Discussant.
- 6 Feb Rutgers University, RUCCS Colloquia, Invited Speaker
- 19 Feb Citta di Vimercate, *Ai confini della Scienza*. Invited Speaker.

## 2006

- 16 Jan University of Milan Bicocca, Italy. Departmental Speaker.
- 4 May University of Vercelli, Italy. Meeting on Conditionals. Conditionals, Mental Logic and Mental Models



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18 May University of Trieste, Italy. Workshop on Cognitive Science and Language. Language learning mechanisms in infants and adults

11 Sep SISSA/ISAS, International Meeting on Vowels and Consonants, On the different information carried by vowels and consonants.

7 Nov Rutgers University, RUCCS Colloquia, Invited speaker.

9 Nov CUNY, Object Meeting. Invited Speaker

10 Nov NYU Infant Laboratory, New York. Invited Speaker.

13 Nov Yale University Departmental Colloquia.

### **2005**

3 Feb London Meeting on Innateness and the Mind (University of Sussex). Discussant.

31 May Birbeck College, London: Categories and objects in Infants.

5 Jul University of Palma, Spain: Oral Reasoning and Mental Logic

26 Jul University of Palma, Spain: Imagining physical events.

18 Nov University of Trieste, Italy. Kanisza Lectures 2005: Invited Speaker.

13 Dec Psychoanalytic Society, Milan, Italy: From Chaos To Order. How infants extract words from speech.

### **2004**

31 Oct San Servolo, Venice. Symposium on Symbols and Connection.

3 Jul Society of Philosophy and Psychology, European Society of Philosophy and Psychology, First joint Meeting, Barcelona, Spain. Opening Language Acquisition Symposium, Session Plénière: Invited Speaker

4-8 Jul European Science Foundation: Workshop Programme "Understanding Actions and Minds", Budapest. Invited Speaker.

27 Apr Department of Linguistics, University of Siena, Italy. "Primary Data and Statistics.

28 Apr Mind And Language Seminar, University of Siena, Italy. "Causality and Imagination"

2-4 Apr University of Sheffield, UK. Innateness and the Structure of the Mind Workshop. Invited Discussant.

30 March University of Trento, Italy. "Learning Rules and Learning Words."

19 March BANFF, Canada. Human Frontiers Science Project Meeting on Language and Statistics. Invited Speaker.

### **2003**

9-12 Jan European Science Foundation: Workshop on Language, Siena. Invited Speaker

4-8 March Aix-En-Provence, Workshop on Causal and Conditional Reasoning. Invited Speaker

24-8 Sep Symposium "Diversity of Cognition", Kyoto, Japan. Invited Speaker.

7-10 Nov University of Sheffield, UK. Innateness and the Structure of the Mind Workshop. Invited Discussant.

### **Other invited conferences**

1998 - 2002: SISSA/Isas, Trieste; Atelier Jean Nicod, CNRS. Hopital Henri Mondor, Paris; McDonnell Foundation Workshop on Brain and Language, New York; Institut des Sciences Cognitives, Lyon; Society for Philosophy and Psychology, New York; University of Massachusetts, Amherst; Maison De Science de l' Homme, Paris. Collège de France, Paris; University of Barcelona, Spain, and others.