

# Curriculum Vitae

Raffaella Bernardi

## 1 Short CV

Raffaella Bernardi is Associate Professor at the Faculty of Engineering, Free University of Bozen-Bolzano, Italy, since April 2025. Before, she was Associate Professor at CIMEC (Center for Mind/Brain Science) and DISI (Department of Information Engineering and Computer Science), University of Trento. From 2002 till 2010, she was an assistant professor with a temporary contract at the Faculty of Computer Science, Free University of Bozen-Bolzano. She works on Computational Linguistics focusing on the interplay between Language and Reasoning as displayed during conversations and/or in multimodal contexts.

She studied at the University of Chieti, then at the Universities of Utrecht and Amsterdam, specializing in Logic and Language; in 1999 she joined the international PhD Programme at the University of Utrecht and wrote a dissertation on categorial type logic (defended in June 2002). Since then she has continued to contribute extensively to this field by organizing several international workshops, summer schools and being part of Organizing Committees, Programme Committees, and Management Boards of international scientific events. After her PhD defence, she has worked within the Network of Excellence in Computational Logic (CoLogNET) for the area Logic and Natural Language Processing and she has been part of the Management Board of FoLLI (European Association for Logic, Language and Information) for several years. She has been a member of the Management Board of the Cost Action The European Network on Integrating Vision and Language, of the Executive Boards for the Special Interest Group on Computational Semantics (SIGSem) and for Formal Grammar conferences. She is an active member of the international Association of Computational Linguistics (ACL), serving as a Senior Chair, Area Chairs of \*ACL conferences; she is also an active member of the Italian Association of Computational Linguistics (AILC) serving eg. as PC chair, AC, member of the scientific committee of AILC Lectures. She has recently been the EU representative within the ACL Sponsorship Board. She has also been quite active in disseminating Computational Linguistics by means of teaching activities. She has long been the local coordinator, at FUB and then at UniTN, of the Erasmus Mundus European Masters Programme in Language and Communication Technologies and of the Language and Multimodal Interaction track of the MSc in Cognitive Science offered by the University of Trento, where she acted also as CIMEC Teaching Delegate.

Her research interests took a computational turn in October 2002 when she moved to the Free University of Bozen-Bolzano and started working on Natural Language Interfaces to Structured Data. In 2011, she has started working on Distributional Semantics investigating its compositional properties and its integration with Computer Vision models. She has supervised PhD projects on controlled natural language to access ontology and databases and on Interactive Question Answering Systems in the Library Domain. In the last ten years, she has mostly worked on Multimodal Models in interactive settings (e.g. visual dialogues) investigating their reasoning abilities.

She is the author of more than 100 publications in proceedings of international workshops, conferences and journals. She has been the PI within the EU Project "CACAO" (CP 2006 DILI 510035 CACAO Program: eContentplus), she has been member of the unitn team for the EU projects "Galateas" (CIP-ICT-PSP-2009-3 250430), LiMoSINe (FP7-PEOPLE 214905), CogNET (ICT-14-2014 RIA). She has been part of team of the ERC 2011 Starting Independent Research Grant COMPOSES (project nr. 283554). She is an ELLIS (European Laboratory for Learning and Intelligent Systems) elected Fellow.

Currently, she is member of the Management Boards of the international Association of Computational Linguistics (ACL), and of the Italian Association of Computational Linguistics (AILC). She is the Director of the MSc in Computing for Data Sciences.

## Personal Information

Family name, First Name: Bernardi, Raffaella  
ORCID: 0000-0002-3423-1208  
Google Scholar: h-index: 26, tot citations: 5718

## 2 Education and most recent job position

### Education

2002 PhD degree issued by UiL-OTS, Utrecht University. Title of the Thesis: *Reasoning with Polarity in Categorical Type Logic*, research group in Logic and Linguistics Supervisor: prof. Michael Moortgat.

1995 MA in Philosophy issued by the Faculty of Arts, Università 'G. d'Annunzio', Chieti, 110 cum laude. Academic Year: 1993-1994. Supervisor: prof. Claudia Casadio.

### Current Position

April 2025-present Associate Professor (fascia II), INFO-01/A, Faculty of Engineering, Free University of Bozen-Bolzano, Italy

19.11.2024-19.11-2036 Italian National Habilitation as Full Professor (Fascia I), 9/H1 (Sistemi di Elaborazione delle Informazioni).

### Most recent positions

December 2020-March 2025 Associate Professor, ING-INF/05, at CIMEC (Center for Mind/Brain Science) and DISI (Department of Information Engineering and Computer Science), University of Trento, Italy;

December 2010-November 2020 Assistant Professor (ricercatore universitario), at CIMEC (Center for Mind/Brain Science) and DISI (Department of Information Engineering and Computer Science), University of Trento, Italy;

December 2003-November 2010 Assistant Professor (ricercatore a tempo determinato) at the Faculty of Computer Science, Free University of Bozen-Bolzano, Italy;

October 2002-November 2003 Research Assistant at the Faculty of Computer Science, Free University of Bozen-Bolzano, Italy.

## 3 Experience in Academic Teaching

### Supervision of Graduate Students and Postdoctoral Fellows

2011-2025 UNITN: 27 Master Students, 1 Research Assistant, 9 PhD students, 1 Post-Doc;

2002-2011 FUB: 4 Master Students, 4 Research Assistants, 2 PhD students;

2002-2011 External co-supervisor of 2 Master Students (University of Pisa, Italy and University of Amsterdam, The Netherlands);

**Courses taught within BSc, MSc and PhD levels** Some of the courses I taught:

BSc and MSc level: Computational Linguistics, CIMEC, University of Trento, ING-INF/05, compulsory course for 1st year MSc in Cognitive Science, and Grounded Language Processing, DISI, ING-INF/05, compulsory course for the CIMEC-DISI track: 2nd year MSc in Artificial Intelligent Systems. Logical Structure in Natural Language, Logic, Digital Libraries and Language Technologies (at MSc and BSc level) within Degrees on Philosophy, Cognitive Science, and Computer Science; full details of all my teaching activities are reported on my website.

PhD level: At International Summer Schools: Training School on Representation mediated Multimodality organized by the Multi-task, Multilingual, Multi-modal Language Generation COST Action CA18231, Sep. 26-30 2022, Schloss Etelsen, Germany; “European Summer School in Logic, Language and Information” co-lecturer of the course “Symmetric Categorical Grammar” (taught with Michael Moortgat (Utrecht University), Dublin 2007) and “Display Logic meets Categorical Type Logic” (taught with Rajeev Goré, Australia University, Nancy 2004); “Logic Summer School”, lecturer of the course on “Logic and Natural Language Semantics”, The Australia National University, Canberra, December 2005.

## 4 Academic Responsibilities

### Internal appointments to Faculty and University Boards

- Director of the MSc in Computing for Data Science (October 2025-2028)
- Member of the CIMEC Giunta (2021-2022, 2022-2025), Innovative Teaching Delegate (2021-2022, 2022-2025), Teaching Delegate (2022-2025). Member of the Comitato di auto-valutazione for the Cognitive Science Programme (2018-2022).
- Member of Doctoral Schools: Faculty of Computer Science (FUB) (2004-2008); at UNITN: Information and Communication Technologies (2011-2014 and since 2014 as external member); Cognitive and Brain Science since 2015.
- Coordinator of the Language and Multimodal Interaction track of the Cognitive Science MSc, UNITN (2015-2022).
- CIMEC delegate for the Neurocognitive Architecture track of the AIS MSc program (2020-2022),
- Responsible for several Erasmus + exchange (2013-2025); Coordinator of stage activities for the Faculty of Arts, University of Trento, tracks on Philosophy and Computer Science (BA and MA) (2011-2013).
- I have played a major role within the European Masters Program in Language and Communication Technologies, selected as Erasmus Mundus Program of Excellence for 3 cycles (from 2007-2012 at FUB), 2012-2019 and 2020-2025 (UNITN), I have been part of its Management Board since its beginning and contributed to the writing of the proposals.

### External appointments at national and international level

- In 2019-2025 International external examiner for 7 PhD students: Tilburg University, Malta University, Goetheberg University, University of Sheffield; University of Pompeu Fabra; LMU Munich, University of Amsterdam, KU Leuven.
- Member of the Awarding international and national Committees: International: “Beth PhD Dissertation” prize 2014, 2015; CPHC/BCS Distinguished Dissertation competition reviewer. Member of the EMNLP 2021 and of the ACL 2024 Best Paper Award committee. Mentor for the Pre-submission Mentorship at ACL SRW 2022. National: AILC MSc Dissertation: 2019 and 2020; AILC Best Paper Evaluation Committee 2019.

- Member of Evaluation Committee for the Position of Associate Professor (Oslo University, Copenhagen University), Member of the Evaluation Committee of RTDb/PA positions at Italian universities.
- Advisory Boards: member of the Advisory Board of the Artificial Intelligence (AI) Master’s Program in the Information and Computer Science Department, Utrecht University; member of the Advisory Board of the NOW Project led by Maria Aloni (University of Amsterdam): Nothing is Logic.
- Participation on invitation to International Seminars of prestigious EU networks: Dagstuhl Workshop Joint Processing of Language and Visual Data for Better Automated Understanding, January 2019. ELLIS workshop on Natural Language Processing Workshop MFO, Overwolfwach, Germany, March 24-27, 2024.

## 5 Organisation of Scientific Activities

### Responsibilities for organizing conferences/seminars/exhibitions

- Scientific events: Together with Julia Hockenmaier, Udo Kruschwitz, and Massimo Poesio, Dagstuhl Perspectives Workshop 24492 Human in the Loop Learning through Grounded Interaction in Games (2-7 December 2024). Member of the Organizer Committee (OC) of the North American Association of Computational Linguistics (NAACL) workshop on Short-comings in Vision and Language (SiVL), Minneapolis, June 2019; OC member of the European Conferences on Computer Vision (ECCV) workshop on Short-comings in Vision and Language (SiVL), Munich 8th of September, 2018. Organizing Committee member of the SemDial (The Semantics and Pragmatics of Dialogue) 2024 conference, Rovereto, 11, 12 September 2024; OC member of the Workshop FINE (Fine-grained Evaluation of Vision Language Models), part of the Ai\*iA 2024 (The International Conference of the Italian Association of Artificial Intelligence), Bolzano.
- Events for the public society: Organizers of the “Giornata Roveretana su Neuroscienze e AI” as part of the regional phase of the Neuroscience Olympiadi. Stand at “Muse Fuori Orario” 2023 on Playing the GuessWhat game with ChatGPT; Organizer of the Lab on Limits of LLMs – part of the Festival degli Informatici senza Frontiera, 2024. Organizer of Best MSc Thesis Awards ceremonies sponsored by local cultural Foundations (Fondazione Comel): 2023, 2024. Organizer of a series of seminars on AI for the Accademia Roveretana degli Agiati, 2023.

### Member of National and International Committees

2024-present: ELLIS (European Laboratory for Learning and Intelligent Systems) Society Fellow since October 2024. “ELLIS Fellows advance science and act as ambassadors of ELLIS. They provide strategic advice and leadership not just scientifically, but also in terms of how to build and grow ELLIS”.

2018-present Roles within the top international conferences. Examples in the last years: PC co-chair: \*SEM (The 5th Joint conference of lexical and Computational semantics), collocated with ACL 2019, Berlin, August 2016 Senior Chair: ACL (Annual Meeting of the Association for Computational Linguistics, GGS class 1, GGS rating A++) 2019, COLING-LREC (International Conference on Computational Linguistics (COLING ranking B –ICORE) and Language Resource and Evaluation (LREC)) 2024; Area Chair: ACL 2020, EMNLP (Conference on Empirical Methods in Natural Language Processing) 2020, CoNLL (Conference on Computational Natural Language Learning) 2020, EACL (European Chapter of ACL) 2021 and 2020; Publicity co-chair of EMNLP 2021. PC chair: SemDial 2024. Senior Chair of COLING-LREC 2024; ACL 2025 sponsor co-chair; I am a regular Area Chair for ACL Rolling Review. PC co-chair of \*SEM (Joint Conference on Lexical and Computational Semantics).

2020-2021 member of the ACL Sponsorship Committee as representative of Europe;

2001-2020 Roles within the European Summer School in Logic, Language and Information (ESSLLI) Student Session co-chair – area “Logic and Language”, 2001 Helsinki; area co-chair – area “Logic and Language” 2010 Copenhagen; local PC co-chair 2016 Bolzano, PC chair 2020 Utrecht/Bolzano. PC member of North American Summer School in Logic, Language and Information (NASSLLI 2018);

2023-2025 member of the Scientific Committee of the Lectures in Computational Linguistics of the Italian Association of Computational Linguistics (AILC);

2016-2020 Role within the Italian Conference of Computational Linguistics, AC 2016 and 2020, PC chair 2019.

**International Management Boards:** Member of the Management Board of the European Association of Logic, Language and Information (FoLLI) (1999-2003, 2004-2005); Member of Formal Grammar Standing Committee (2018-2022); Member of the SIGSEM management board (2017-2021); member of the Management Core Board of The European Network on Integrating Vision and Language (iV&L Net) ICT COST Action IC1307 (2016-2018). international Association of Computational Linguistics (ACL, 2026-2027) and of the Italian Association of Computational Linguistics (AILC, 2026-2028)

## 6 Research Activities

- Currently, my research focuses on Large Language Models and Reasoning by tackling their reasoning ability both while a) understanding and b) generating text, as well as c) in visually grounded contexts. We are testing LLMs a) deductive and inductive reasoning skills, b) information seeking strategy, c) temporal reasoning in videos. On these topics, I am supervising three PhD students, part of the funds come from a donation I received by Amazon Alexa.
- In the previous five years, I have supervised PhD students on conversational Vision Language Models, models able to interact with other agents about visual inputs. Part of the funds came from a donation I received by SAP SE and by winning a CIMeC research project call.
- During my academic life, I worked on Logic based models (e.g. Formal Semantics) of natural language syntax and semantics (see the work done during my PhD project 1997-2002; on Ontology driven applications of NLP methods, eg. Interactive Question Answering, Multilingual Digital Libraries (see the work done during my stay at the Free University of Bozen-Bolzano, 2002-2010); on Statistical Models of language, e.g. Distributional Semantics (see my work during my first years at UNITN, 2011-2016) when I proposed to look at the issue of compositionality, a core stone of Formal Semantics, within the statistical approach of Distributional/Vector Space Semantics. Since 2011, I have been working on Visually Grounded language models, that are a natural landing point coming from a Logic based view, since they let us test whether models can distinguish truth from false statements. Part of this work was supported by an ERC project, led by Marco Baroni, of which I was one of the other two senior members.
- I have been part, as senior researcher, of several research projects, such as GALATEAS (Generalized Analysis of Logs for Automatic Translation and Episodic Analysis of Searches), CIP-ICT-PSP-2009-3 250430 (2011-2013) 200K EURO; I have been part as senior PI and WP leader of COMPOSES (Compositional Operations in Semantic Space), a 5-year European Research Council project (nr. 283554) and I have contributed to the writing of the proposal, 1M EURO. The Erasmus Mundus grant for each cycle of the European Master Program in Language and Communication Technologies amount to more than 4M EURO, I contributed to the proposal writing and its management (3 cycles).

### Coordinator of Research Projects

2015-2025 Coordinator of the LaVi (Language and Vision) research working-group (part of CLIC/CIMeC)

2011-2016 Co-PI of the ERC project COMPOSES (Compositional operation in Semantic Space).

2007-2009 “Principal Investigator” of the European Project “CACAO” (Cross-language to Catalogues and On-line libraries) eContentplus, (510035, Call 2006, TP, action 5.1), Budget: 1.300.000 EURO, of which ca. 226.000 for the Free University of Bozen-Bolzano.

2007 Coordinator of the project MIVaS (Metodi inferenziali per la Valutazione di Sistema), budget 25.000 EURO supported by the “Istituto Pedagogico Italiano” – “Comitato di Valutazione per la qualità del sistema scolastico”, Provincia di Bolzano.

2005-2006 “Principal Investigator” of the Research Project “Linguistica Computazionale” on “Multilingual Access in Libraries” (MuSiL), supported by the University Library.

### Reviewing Activities

2020-present Associate Editor of the Journal of Logic, Language and Information (2022-). Guest Associate Editor in Machine Learning and Artificial Intelligence, Guest editor of JNLE Guest Associate Editor Frontiers in Machine Learning and AI. Research Topic: Identifying, Analysing, and Overcoming Challenges in Vision and Language Research (2020-2021).

Journals: Reviewer for TACL (Transactions of the Association for Computational Linguistics), Computational Linguistics; Linguistics and Philosophy, JoLLI (Journal of Logic, Language and Information); Logic Journal of the IGPL; Linguistics and Philosophy; Research on Language and Computation, LILT (Linguistic Issues in Language Technology); Studia Logica. Frontiers in AI. TPAMI (Transactions on Pattern Analysis and Machine Intelligence)

Projects: ERC, BSF (United States-Israel Binational Science Foundation); ESF (European Science Foundation), NWO, LogICCC etc.

**Major Collaborations** I have numerous ongoing collaborations at international level. For instance, I work with R. Fernandez and S. Pezzelle (University of Amsterdam), G. Boleda and M. Baroni (Universitat Pompeu Fabra), B. Plank (LMU Munich), L. Benotti (Ciudad Universitaria), A. Gatt (University of Utrecht), Oliver Lemon and Alessandro Suglia (Heriot-Watt University), David Schlangen (University of Potsdam), and Thu Diu Le (Amazon Alexa); most of the current work is on vision and language and on (visually grounded) conversational models.

### Keynote speaker

- 30th European Society of Philosophy and Psychology Conference Symposium on Large Language Models, September 2023
- Workshop on Natural Language for Artificial Intelligence (NL4AI), Co-located with AIXAI, 6-9 November 2023, Rome, Italy
- Training School on Representation Mediated Multimodality, Talk on Visually Grounded Communication organized by the Multi-task, Multilingual, Multi-modal Language Generation COST Action CA18231, Sep. 26-30 2022, Schloss Etelsen, Germany
- Invited Talks at Research Centers: on Visually Grounded Alternative Sets, Potsdam Computational Linguistics Colloquium May 2021, KUIS AI center on Two Challenges Behind Visual Dialogues: Grounding Negation and Asking an Informative Question, Jan. 2022
- SAP Leonardo Machine Learning Research Retreat 2019, October 2nd 2019, Berlin, Germany
- WoLLIC 2019 2-5 July, Utrecht University (Cancelled for family reason)

- The workshop Compositionality in formal and distributional models of natural language semantics, on July 6 2019 (Cancelled for family reason)
- IWCS 2019, 23-27 May, University of Gothenburg
- NLCS 2019, 24th of May, University of Gothenburg Merging language and vision modalities". 10th of September 2018
- "Formal and Distributional Perspectives on Meaning" workshop, colocated with the Amsterdam Colloquium 2017

### Invited Talks

- At the Computational Linguistics Seminar series of the ELLIS Unit at the University of Amsterdam, February 2025.
- ERC CoSaQ Kick-off workshop, 28-29 September 2017, University of Amsterdam
- Tutorial at Bergen University on "An old Artificial Intelligence dream that comes true"
- Talk at the workshop on Linking Data, Ontologies and Distributional Models for the Representation of Lexical Meaning, Florence
- Tutorial on Language and Vision at the Lectures on Computational Linguistics, University of Pavia, 4-5 May 2017
- Talk on Learning quantities from vision and language at CLS (Computational Linguistics Seminar) of the Institute for Logic, Language, and Computation at the University of Amsterdam,
- From words to phrases in Distributional Semantics Models. Joachim Lambek: Mathematics, Logic and Language, July 2011
- From Logic to Natural Language via Residuation at the Evening Seminar Series of the Logic Summer School , ANU, Canberra, Australia, December 05, 2005]
- Semantically based inferences in syntax (Joint talk with Anna Szabolcsi.) Proof Theory at the Syntax/Semantics Interface, July 7-9, 2005, LSA Institute, MIT.
- Polarity from Different Perspectives , March 11 -13, 2005, New York University.
- In Situ Binding: A Hybrid Approach (Joint work with C. Areces). Workshop on Mathematical Linguistics, University of Ottawa, June 18-19, 2003.
- Reasoning with Polarity in Categorical Type Logic. Dublin Computational Linguistics Research Seminar Series. Friday 26th of May, April 2002.
- A proof theoretical account of polarity items and monotonic inference. Department of Computational Linguistics, Saarbrücken, Germany
- Polarity Items in Type Logical Grammar. Connection with DMG Talk given (together with O. Nilsen) at the workshop Learning Logic and Grammar.
- Scope Phenomena and Adverb Order in Type Logical Grammar. (with O. Nilsen) Dip Colloquium, Friday 8th of June, 2001.
- V Roma Workshop. Analyzing the core of Categorical Grammar. Roma, 2-4 June 2001,

## **Fellowship and Awards**

Outstanding Area Chair EMNLP 2020; Best Paper nomination CLIC-IT 2020, NL4AI 2020; Best paper Award INLG 2023;

Short Term Scholar at Department of Linguistics, New York University. Sponsored by the International Visiting Program (2005); PhD scholarship supported by UiLOTS (2019-2002); 2-year italian scholarship to study abroad (1997-1998).

## Most recent and most relevant publications

Most of my papers can be found at the ACL Anthology: <https://aclanthology.org/people/r/raffaella-bernardi/>

### Main CL/NLP Conferences:

ACL (Annual Meeting of the Association for Computational Linguistics): GGS class 1, GGS rating A++, acceptance rate around 20-24%: 8 papers

EMNLP (International Conference on Empirical Methods in Natural Language Processing): GGS class 1, GGS rating A+, acceptance rate around 20-24%: 6 (main) + 4 (findings): papers

NAACL-HLT: (North American Chapter of the Association for Computational Linguistics): GGS class 1, GGS rating A+, acceptance rate around 25-27%: 4 papers

COLING (International Conference on Computational Linguistics): GGS class 2, GGS rating A, acceptance rate around 27-30%: 3 papers

EACL (The European Chapter of the Association for Computational Linguistics): GGS class 2, GGS rating A, acceptance rate around 24%: 3 papers

INLG: (International Natural Language Generation Conference) – around 31%: 1 paper

### Less selective events:

IWCS (International Workshop of Computational Semantics) – around 45% acceptance rate: 3 papers

LREC: (International Conference on Language Resources and Evaluation) – around 60% acceptance rate: 4 papers

**Journals:** 7 papers in Q1, 2 papers in Q2 international journals.

- Books/Proceedings/Journal Special Issues – Edited

1. Alexandra Pavlova, Mina Young Pedersen, Raffaella Bernardi Selected Reflections in Language, Logic, and Information: ESSLLI 2019, ESSLLI 2020 and ESSLLI 2021 Student Sessions, Selected Papers, 2023
2. Kushal Kafle, Raffaella Bernardi, Moin Nabi, Jin-Hwa Kim, Sandro Pezzelle, Julia Hockenmaier Identifying, Analyzing, and Overcoming Challenges in Vision and Language Research. *Frontiers in Big Data, Machine Learning and Artificial Intelligence*
3. Raffaella Bernardi, Roberto Navigli, Giovanni Semeraro, Proceedings of the Sixth Italian Conference on Computational Linguistics CLIC-it 2019, Bari, Italy, November 13-15, 2019
4. Bojar O., Bernardi R., Webber B. Representation of sentence meaning Special Issue of JNLE, 25(4) 427 – 432, 2019.
5. R. Bernardi, S. Chambers, B. Gottfried, F. Segond, I. Zaihrayeu (eds.) *Advanced Language Technologies for Digital Libraries*. LNCS 6699, 2011
6. R. Bernardi, S. Chambers, B. Gottfried, “Proceedings of the Workshop on Advanced Technologies for Digital Libraries 2009” (AT4DL 2009). Bozen-Bolzano University Press, ISBN 978-88-6046-030-1 R. Bernardi *Reasoning with Polarity in Categorical Type Logic*. PhD Thesis, UiL OTS, 2002. ISBN: 9039330700

- Chapters in books

1. Claudio Greco, Barbara Plank, Raquel Fernandez and Raffaella Bernardi Measuring Catastrophic Forgetting in Visual Question Answering IWSDS 2019, Bari. Published with Springer in 2020

2. Raffaella Bernardi, Distributional Semantics: A Montagovian view. In *Categories and Types in Logic, Language, and Physics*, Casadio, C., Coecke, B., Moortgat, M., Scott, P. (Eds.). Volume 8222 of the *Lecture Notes in Computer Science* series, 2014 ISBN 978-3-642-54788-1
  3. Camilo Thorne, Raffaella Bernardi, Diego Calvanese Designing Efficient Controlled Languages for Ontologies. In "Computing Meaning", H. Bunt and J. Bos and S. Pulman (eds). Vol 47. 2014.
  4. Raffaella Bernardi Scope Ambiguities through the mirror In M. Everaert, T. Lentz, De Mulder, H., O. Nilsen and A. Zondervan (eds.) *The Linguistics Enterprise: from knowledge of language to knowledge in linguistics*. John Benjamins Publishing Company. vol 150, 2010;
- Conference papers
    1. Anna Bavaresco, **Raffaella Bernardi**, Leonardo Bertolazzi, Desmond Elliott, Raquel Fernandez, Albert Gatt, Esam Ghaleb, Mario Giulianelli, Michael Hanna, Alexander Koller, Andre Martins, Philipp Mondorf, Vera Neplenbroek, Sandro Pezzelle, Barbara Plank, David Schlangen, Alessandro Suglia, Aditya K. Surikuchi, Ece Takmaz, Alberto Testoni. *LLMs instead of Human Judges? A Large Scale Empirical Study across 20 NLP Evaluation Tasks*. In *Proceedings of the 63rd Annual Meeting of the Association for Computational Linguistics (ACL 2025)*, Short Papers.
    2. Carlotta Giacchetta, **Raffaella Bernardi**, Barbara Montini, Jacopo Staiano, Serena Tomasi. *Argumentative Analysis of Legal Rulings: A Structured Framework Using Bobbitt's Typology*. In *Proceedings of the 12th Argument Mining Workshop*, 2025.
    3. Marika Sarzotti, Giovanni Duca, Chris Madge, **Raffaella Bernardi**, Massimo Poesio. *MLLMs Construction Company: Investigating Multimodal LLMs' Communicative Skills in a Collaborative Building Task*. In *Proceedings of the Eleventh Italian Conference on Computational Linguistics (CLiC-it 2025)*.
    4. Davide Testa, Giovanni Bonetta, **Raffaella Bernardi**, Alessandro Bondielli, Alessandro Lenci, Alessio Miaschi, Lucia C. Passaro, Bernardo Magnini. *MAIA: A Benchmark for Multimodal AI Assessment*. In *Proceedings of the Eleventh Italian Conference on Computational Linguistics (CLiC-it 2025)*.
    5. Leonardo Bertolazzi, Philipp Mondorf, Barbara Plank, **Raffaella Bernardi**. *The Validation Gap: A Mechanistic Analysis of How Language Models Compute Arithmetic but Fail to Validate It*. In *Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP 2025)*.
    6. Nicola Horst, Davide Mazzaccara, Antonia Schmidt, Michael Sullivan, Filippo Momente, Luca Franceschetti, Philipp Sadler, Sherzod Hakimov, Alberto Testoni, **Raffaella Bernardi**, Raquel Fernandez, Alexander Koller, Oliver Lemon, David Schlangen, Mario Giulianelli, Alessandro Suglia. *Playpen: An Environment for Exploring Learning From Dialogue Game Feedback*. In *Proceedings of the Conference on Empirical Methods in Natural Language Processing (EMNLP 2025)*.
    7. Davide Testa, Giovanni Bonetta, **Raffaella Bernardi**, Alessandro Bondielli, Alessandro Lenci, Alessio Miaschi, Lucia Passaro, Bernardo Magnini. *All-in-one: Understanding and Generation in Multimodal Reasoning with the MAIA Benchmark*. In *Findings of the Association for Computational Linguistics: EMNLP 2025*.
    8. Filippo Momente, Alessandro Suglia, Mario Giulianelli, Ambra Ferrari, Alexander Koller, Oliver Lemon, David Schlangen, Raquel Fernandez, **Raffaella Bernardi**. *Triangulating LLM Progress through Benchmarks, Games, and Cognitive Tests*. In *Findings of the Association for Computational Linguistics: EMNLP 2025*.
    9. \*Leonardo Bertolazzi , Albert Gatt , Raffaella Bernardi A Systematic Analysis of Large Language Models as Soft Reasoners: The Case of Syllogistic Inferences , EMNLP (International Conference on Empirical Methods in Natural Language Processing) 2024
    10. \*Davide Mazzaccara, Alberto Testoni, Raffaella Bernardi Learning to Ask Informative Questions: Enhancing LLMs with Preference Optimization and Expected Information Gain EMNLP (International Conference on Empirical Methods in Natural Language Processing) Findings 2024

11. \*Leonardo Bertolazzi, Davide Mazzaccara, Filippo Merlo and Raffaella Bernardi, ChatGPT’s Information Seeking Strategy: Insights from the 20-Question Game. 16th International Natural Language Generation Conference, Prague 11-15 September 2023. Best Paper Award
12. M. W. Hanna, F. Pedeni, A. Testoni, A. Suglia, and R. Bernardi ACT-Thor: A Controlled Benchmark for Embodied Action Understanding in Simulated Environments COLING 2022.
13. C. Greco, A. Testoni, R. Bernardi, and S. Frank A small but informed and diverse model: The case of the multimodal GuessWhat?! guessing game (Dis)embodiment Workshop, 2022 September 14-16, University of Gothenburg, Sweden,
14. \*Alberto Testoni and Raffaella Bernardi Looking for Confirmations: An Effective and Human-Like Visual Dialogue Strategy EMNLP 2021,
15. Tianai Dong, Alberto Testoni, Luciana Benotti and Raffaella Bernardi Visually grounded follow-up questions: a dataset of spatial questions which require dialogue history. SpLU-RoboNLP 2021,
16. \*Alberto Testoni and Raffaella Bernardi „ÄúI,Äöve Seen Things You People Wouldn,Äôt Believe,Äù: Hallucinating Entities in GuessWhat?! In proceedings of ACL-IJCNLP 2021 SRW
17. Claudio Greco, Alberto Testoni and Raffaella Bernardi, ”Yes” and ”No”: Visually Grounded Polar Answers Proceedings of the Visually Grounded Interaction and Language (ViGIL) workshop at NAACL 2021
18. Claudio Greco and Alberto Testoni and Raffaella Bernardi Grounding Dialogue History: Strengths and Weakness of Pre-Trained Transformers. In: Baldoni M., Bandini S. (eds) AIXIA 2020 – Advances in Artificial Intelligence. AIXIA 2020. Lecture Notes in Computer Science, vol 12414. Springer, Cham.
19. Alberto Testoni and Raffaella Bernardi The Interplay of Task Success and Dialogue Quality: An in-depth Evaluation in Task-Oriented Visual Dialogues In Proceedings of EACL 2021, 9-23 April 2021,
20. Claudio Greco, Alberto Testoni and Raffaella Bernardi Which turn do neural models exploit the most to solve GuessWhat? Diving into the dialogue history encoding in Transformers and LSTMs 4th Workshop on Natural Language for Artificial Intelligence (NL4AI 2020), pp. 29-43 CEUR, Best Paper Nomination
21. Alberto Testoni and Raffaella Bernardi Overprotective Training Environments Fall Short at Testing Time: Let Models Contribute to Their Own Training Clic-it 2020, Bologna, Best Paper nomination
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