# Giulia Rambelli

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Italian (native) | English & French (proficient)

## Current Position

Nov 2022 – current
**Postdoctoral Researcher**, Department of Modern Languages, Literatures, and Cultures, Alma Mater Studiorum — University of Bologna.
ABSTRACTION project (ERC-2021-STG-101039777)

## Research Interests

Lexical and Computational Semantics, Construction Grammars, Usage-based models, Distributional and Neural Models of Language, Language Processing, Compositionality, Analogy, Linguistic Creativity

## Funding and Awards

May 2023
**MWE 2023 Best Paper Honorable Mention**, *Are Frequent Phrases Directly Retrieved like Idioms? An Investigation with Self-Paced Reading and Language Models*, Giulia Rambelli, Emmanuele Chersoni, Marco S. G. Senaldi, Philippe Blache, Alessandro Lenci .

August 2021
***SEM 2020 Best Paper Award**, *Did the Cat Drink the Coffee? Challenging Transformers with Generalized Event Knowledge*, Paolo Pedinotti, Giulia Rambelli, Emmanuele Chersoni, Enrico Santus, Alessandro Lenci, Philippe Blache.

December 2020
**AACL 2020 Best Paper Award**, *Comparing Probabilistic, Distributional and Transformer-Based Models on Logical Metonymy Interpretation*, Giulia Rambelli, Emmanuele Chersoni, Alessandro Lenci, Philippe Blache, Chu-Ren Huang.

December 2019
**Grant allocation Bando VINCI 2020**, *Capitolo II: Contributi di mobilità per tesi di dottorato in cotutela*, supported by Università franco-italiana (Université franco-italienne).

## Education

2018 – 2022
**Ph.D. in Linguistics**.
Thesis Title: Integrating Distributional and Constructional Approaches: Towards a new Model of Language Comprehension
Supervisors: Prof A. Lenci (University of Pisa), Prof. P. Blache (Aix-Marseille University)
Graduation date: 14/09/2022

*joint degree between*

**University of Pisa – Italy**, *XXXIV Corso di Dottorato in Discipline Linguistiche e Letterature Straniere*, L-LIN/01.
ColingLab laboratory, Pisa, Italy

**Aix-Marseille Université – France**, *ED 356 Cognition, Langage, Éducation* , Sciences du Langage.
LPL - Laboratoire Parole et Langage, Aix-en-Provence, France | ILCB

| 2015–2018 | **M.Sc. degree in Informatica Umanistica (LM-43)**, University of Pisa, Italy, *110/110 cum laude.* |
|---|---|
| | Thesis Title: UDLex: un lessico multilingue della struttura argomentale |
| | Supervisor: Prof. A. Lenci |
| | Graduation date: 03/05/2018 |
| 2012-2015 | **B.A. degree in Informatica Umanistica (L-10)**, University of Pisa, Italy, *110/110 cum laude.* |
| | Thesis Title: A distributional lexicon for French verb argument structure: the study of LexFr |
| | Supervisor: Prof. A. Lenci, Co-supervisor: Prof. L Prévot |
| | Graduation date: 01/10/2015 |

## Traineeships

| March – July 2017 | **Erasmus Traineeship**, *Lattice laboratory*, Montrouge, France. |
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| | Supervisor: Prof. Thierry Poibeau |
| Sep – Dec 2015 | **Erasmus Traineeship**, *Laboratoire Parole et Langage*, Aix-en-Provence, France. |
| | Supervisor: Laurent Prévot |

## International Research Experience

| 19–21 June 2024 | **Lectures on Computational Linguistics 2024**, *University of Bari*, Bari, Italy. |
|---|---|
| 14–15 Jul 2021 | **Summer School "Methods In Language Sciences"** - **Linear mixed models course**, *Ghent University*, Ghent, Belgium. |
| | 10 hours -Teacher: prof. Shravan Vasishth |
| 29–31 May 2023 | **Lectures on Computational Linguistics 2023**, *University of Pisa*, Pisa, Italy. |
| 26 Jul – 13 Aug 2021 | **32nd European Summer School in Logic, Language, and Information (ESSLLI)**, *Free University of Bozen-Bolzano*, held virtually. |
| 14–15 Jul 2021 | **Summer School "Methods In Language Sciences"** - **Eye-Tracking course**, *Ghent University*, Ghent, Belgium. |
| | 12 hours |
| 27 Jan – 12 Feb 2020 | **Deep Learning for Natural Language Processing (5th edition)** , *Universidad del Pais Basco*, San Sebastian, Spain. |
| | 35 hours |
| 2–6 Sep 2019 | **Summer School of the Institute for Language, Communication and the Brain (2nd edition)**, *ILCB*, Marseille, France. |
| 5–9 Aug 2019 | **31st European Summer School in Logic, Language, and Information (ESSLLI)**, *University of Latvia*, Riga, Latvia. |
| 9–20 Jul 2018 | **25th International Summer School in Cognitive Science**, *New Bulgarian University*, Sofia, Bulgaria. |
| 17–28 Jul 2017 | **29th European Summer School in Logic, Language, and Information (ESSLLI)**, *Toulouse Capitole University*, Tolouse, France. |
| 7 Apr – 27 May 2016 | **Corso di Neurolinguistica**, *Scuola Normale Superiore*, Pisa, Italy. |
| | Professor: Valentina Bambini. |
| | 30 hours |

## Technical Skills

| programming | Python including ML and DL tools (Gensim, SciKit Learn, Pytorch) ●●●●●, Javascript ●●●●○, PHP ●●○○○, Java ●●○○○ |
|---|---|
| statistical analysis | R ●●●●○ |

| markup languages | LaTeX●●●●●, XML●●●●○ , HTML/ CSS●●●●● |
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| DB administration | MySQL ●●○○○, Neo4j ●●○○○ |
| design | Adobe Photoshop ●●●●○, Adobe Illustrator●●●●○, Adobe InDesign ●●●●○ |

## Languages

| Italian | **Native Speaker** | |
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| English | **fluent** | *Writing workshop for both experienced and young academics* |
| | | *CLI - Università di Pisa, (31/07/2015): C1* |
| French | **fluent** | |

## Academic Activities

*Invited talks*

| 2024 | "Word Specificity: A Measure to Investigate Semantic Abstraction and Linguistic Creativity". Invited talk at the CBS Seminars organized by Emmanuele Chersoni, The Hong Kong Polytechnic University. Hong Kong, 6 August 2024. |
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| | "Word Specificity: A Measure to Investigate Semantic Abstraction and Linguistic Creativity". Invited talk at Trinity College organized by Tony Veale. Dublin (Ireland), 6 June 2024 |
| 2022 | "Compositionality beyond simple compositionality. A constructionist and distributional perspective". Invited talk at the Natural Language Processing group organized by prof. Aline Villavicencio, University of Sheffield. Online, 7 Oct 2022 |
| | "Compositionality as an Analogical Process". Invited talk at the CBS Research Group Meeting, The Hong Kong Polytechnic University. Online, 28 Sep 2022 |

*Conference Organization*

| 2024 | Member of the organizing committee of CMCL 2024 (The 13th edition of the Workshop on Cognitive Modeling and Computational Linguistics), colocated with ACL 2024 (2024). Bangkok, Thailand. |
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| 2020 | Member of the organizing committee of ATE_ABSITA task at EVALITA 2020 (2020). Online. |
| 2019 | Member of the organizing committee of Interruzioni & Cesure – International Graduate Conference (2019). Pisa, Italy. |

| *Conference Reviewer* | ACL 2023, *SEM 2023, EACL 2023, EMNLP 2022, COLING 2022, CMCL 2022; AIxIA2021, EMNLP 2021, CMCL 2021; CMCL 2020, COLING 2020, LiNCR 2020; ACL 2019, CMCL 2019, IWCS 2019 |
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## Teaching Activities

| 2023 | **Tutor in General Linguistics (9cfu)**, *Laurea Triennale in Lingue e Letterature Straniere (BA in Foreign Languages and Literatures)*, in collaboration with Prof. Marianna Bolognesi, Department of Modern Languages, Literatures, and Cultures, Alma Mater Studiorum - University of Bologna. academic year 2023-2024 |
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| | **Guest Lecturer**, *Laurea Triennale in Lingue e Letterature Straniere (BA in Foreign Languages and Literatures), Alma Mater Studiorum - University of Bologna*, Course of General Linguistics held by prof. Marianna M. Bolognesi. Title:"Grammatica delle Costruzioni" |

**Guest Lecturer**, *Laurea Triennale in Lingue e Letterature Straniere (BA in Foreign Languages and Literatures), Alma Mater Studiorum - University of Bologna*, Course of General Linguistics held by prof. Marianna M. Bolognesi.
Title: "La Composizione"

2022   **Guest Lecturer**, *Master program in "Italian Culture and Language for Foreigners"/ "Italian Studies, European Literary Cultures, Linguistics", Alma Mater Studiorum - University of Bologna*, Course of Lexical Semantics / Semantics and Lexicon held by prof. Francesca Masini.
Title: "Come processiamo espressioni con diversi gradi di composizionalità: un caso di studio"

## Publications — Peer-reviewed international journal articles

2024   **Giulia Rambelli**, Emmanuele Chersoni, Davide Testa, Philippe Blache, Alessandro Lenci (2024). *Neural Generative Models and the Parallel Architecture of Language: A Critical Review and Outlook*. Topics in cognitive science.

2023   Carina Kauf, Anna A Ivanova, **Giulia Rambelli,** Emmanuele Chersoni, Jingyuan Selena She, Zawad Chowdhury, Evelina Fedorenko, Alessandro Lenci (2023). *Event knowledge in large language models: the gap between the impossible and the unlikely.* Cognitive Science 47 (11):e13386.

## Publications — Conference proceedings

2024   **Giulia Rambelli**, Emmanuele Chersoni, Claudia Collacciani, and Marianna Bolognesi (2024). *Can Large Language Models Interpret Noun-Noun Compounds? A Linguistically-Motivated Study on Lexicalized and Novel Compounds*. In Proceedings of the 62nd Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers), pages 11823–11835.

Claudia Collacciani, **Giulia Rambelli**, Marianna Bolognesi (2024). *Quantifying Generalizations: Exploring the Divide Between Human and LLMs' Sensitivity to Quantification*. In Proceedings of the 62nd Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers), pages 11811–11822.

Tatsuki Kuribayashi, **Giulia Rambelli**, Ece Takmaz, Philipp Wicke, and Yohei Oseki (2024). *Proceedings of the Workshop on Cognitive Modeling and Computational Linguistics*. Association for Computational Linguistics, Bangkok, Thailand, edition.

**Giulia Rambelli** and Marianna M. Bolognesi (2024). *The Contextual Variability of English Nouns: The Impact of Categorical Specificity beyond Conceptual Concreteness*. In Proceedings of the 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation (LREC-COLING 2024): 15854–15860.

2023   Claudia Collacciani Collacciani and **Giulia Rambelli** (2023). *Interpretation of Generalization in Masked Language Models: An Investigation Straddling Quantifiers and Generics*. In Proceedings of the 9th Italian Conference on Computational Linguistics (CLiC-it 2023).

**Giulia Rambelli** and Marianna M. Bolognesi (2023). Contextual Variability depends on Categorical Specificity rather than Conceptual Concreteness: A Distributional Investigation on Italian data. In Proceedings of the 15th International Conference on Computational Semantics (IWCS 2023).

**Giulia Rambelli**, Emmanuele Chersoni, Marco S. G. Senaldi, Philippe Blache, and Alessandro Lenci (2023). Are Frequent Phrases Directly Retrieved like Idioms? An Investigation with Self-Paced Reading and Language Models. In Proceedings of the 19th Workshop on Multiword Expressions (MWE 2023).

2022   **Giulia Rambelli**, Emmanuele Chersoni, Philippe Blache, Alessandro Lenci (2022). *Compositionality as an Analogical Process: Introducing ANNE*. In Proceedings of CogALex VII 2022.

2021 Paolo Pedinotti, **Giulia Rambelli**, Emmanuele Chersoni, Enrico Santus, Alessandro Lenci, Philippe Blache (2021). *Did the Cat Drink the Coffee? Challenging Transformers with Generalized Event Knowledge*. Proceedings of \*SEM 2021.

2020 Lorenzo De Mattei, Graziella De Martino, Andrea Iovine, Alessio Miaschi, Marco Polignano, **Giulia Rambelli** (2020). ATE_ABSITA @ EVALITA2020: Overview of the Aspect Term Extraction and Aspect-based Sentiment Analysis Task. Proceedings of EVALITA2020.

**Giulia Rambelli**, Emmanuele Chersoni, Alessandro Lenci, Philippe Blache, Chu-Ren Huang. *Comparing Probabilistic, Distributional and Transformer-Based Models on Logical Metonymy Interpretation*. Proceedings of the 1st Conference of the Asia-Pacific Chapter of the Association for Computational Linguistics and the 10th International Joint Conference on Natural Language Processing.

2019 **Giulia Rambelli**, Emmanuele Chersoni, Philippe Blache, Chu-Ren Huang and Alessandro Lenci (2019).*Distributional Semantics Meets Construction Grammar. Towards a Unified UsageBased Model of Grammar and Meaning*. Proceedings of The First International Workshop on Designing Meaning Representations (DMR).

2017 **Giulia Rambelli**, Alessandro Lenci, and Thierry Poibeau (2017). *Udlex: Towards cross-language subcategorization lexicons*. In Proceedings of the Fourth International Conference on Dependency Linguistics (DepLing 2017).

2016 Emmanuele Chersoni, **Giulia Rambelli**, and Enrico Santus (2016). *Cogalex-v shared task: ROOT18*. In Proceedings of the 5th Workshop on Cognitive Aspects of the Lexicon, Co-gALex@COLING 2016.

**Giulia Rambelli**, Gianluca E. Lebani, Laurent Prévot, and Alessandro Lenci (2016). *LexFr: Adapting the LexIt framework to build a corpus-based French subcategorization lexico*n. In Proceedings of the 10th International Conference on Language Resources and Evaluation (LREC 2016).

## Attended Conferences

2024 ACL 2024, in Bangkok (Thailand), 11-16 August 2024 – *Two poster presentations*

Analogy-ANGLE (The First Workshop on Analogical Abstraction in Cognition, Perception, and Language – colocated with IJCAI 2024), in Jeju (South Korea), 4 August 2024 – *Two oral presentations*

LREC-COLING, in Turin (Italy), 20-25 May 2024 – *Poster presentation*

2023 CLiC-it 2023, in Venice (Italy), 30 November-2 December 2023 – *Oral presentation*

IWCS 2023, Nancy (France), 20-23 June 2023 – *Oral presentation*

MWE 2023 (19th Workshop on Multiword Expressions), colocated with EACL 2023, 6 May 2023 – *Oral presentation*

EACL 2023 (17th Conference of the European Chapter of the Association for Computational Linguistics), in Dubrovnik (Croatia), 2-6 May 2023

CompCog23 (Complexity and Cognition symposium), online, 1 Feb 2023

2022 CogALex-VII (7th Workshop on Cognitive Aspects of the Lexicon), online 20 Nov 2022 – *Oral Presentation*

HSP 2022 (35th Annual Conference on Human Sentence Processing) Conference, online, 24-26 March 2022 – *Poster presentation*

2021 SIG 2021 (XL Convegno della Società Italiana di Glottologia), in Pisa (Italy),21-23 Oct 2021

\*SEM 2021 (The Tenth Joint Conference on Lexical and Computational Semantics), online, 5-6 Aug 2021 – *Poster presentation*

CLiC-it 2020 (7th Italian Conference on Computational Linguistics), online, 1-3 March 2021

2020 EVALITA 2020 (7th Evaluation Campaign of Natural Language Processing and Speech Tools for Italian), online, 17 Dec 2020 – *organizer for ATE_ABSITA task*

AACL 2020 (1st Conference of the Asia-Pacific Chapter of the Association for Computational Linguistics), online, 4-7 December 2020 – *Oral presentation*

GECKo (Integrating Generic and Contextual Knowledge symposium), online, 18 May 2020

2019 JAD 2019 (Journée Annuelle des Doctorants 2019), in Aix-en-Provence (France), 13 Dec 2019– *Poster presentation*

DMR 2019 (1st workshop on Designing Meaning Representations), colocated with ACL 2019, 1 Aug 2019 – *Poster presentation*

ACL 2019 (57th Annual Meeting of the Association for Computational Linguistics), in Florence (Italy), 28 Jul-2 Aug 2019

2018 CLiC-it 2018 (5th Italian Conference on Computational Linguistics), in Turin (Italy), 10-12 Dec 2018

2017 CLiC-it 2017 (4th Italian Conference on Computational Linguistics), in Rome (Italy), 11-13 Dec 2017

Depling 2017 (4th International Conference on Dependency Linguistics), in Pisa (Italy), 18-20 Sep 2017 – *Poster presentation*

2016 CLiC-it 2016 (3th Italian Conference on Computational Linguistics), in Naples (Italy), 5-6 Dec 2016

LREC 2016, in Portorož (Slovenia), 23-28 May 2016 – *Oral presentation*

2015 CLiC-it 2015 (2th Italian Conference on Computational Linguistics), in Trento (Italy), 10-11 Dec 2015

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