

Curriculum Vitae

Marco Rospoche

Updated: October 16, 2026

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1 General information

1.1 Personal data

- Family Name: Rospoche
- First Name: Marco
- Nationality: Italian
- Affiliation: Department of Foreign Languages and Literatures, University of Verona
- Building: Palazzo di Lingue, Floor 1, Room 1.12
- Address: Lungadige Porta Vittoria, 41 - I-37129 Verona - Italy
- Map: <https://osm.org/go/0CrjXP4B9?layers=N&m=>
- Phone Number: (+39) 045 8028326
- e-mail: marco.rospoche@univr.it
- Home Page: <https://marcorospoche.com/>
- Google Scholar: <https://scholar.google.com/citations?user=wkAcWjMAAAAJ>
- Scopus: <https://www.scopus.com/authid/detail.uri?authorId=14010314000>
- DBLP: <https://dblp.uni-trier.de/pers/hd/r/Rospoche:Marco>
- Orcid: <https://orcid.org/0000-0001-9391-3201>
- GitHub: <https://github.com/rospoche>

1.2 Education

- Ph.D. in Information and Communication Technologies
ICT School, University of Trento, Italy
31 Mar 2006
Thesis: On the computational complexity of enumerating certificates of NP problems
Advisor: Prof. Romeo Rizzi
Manuscript: <https://marcorospoche.com/files/phd/2006phd.pdf>
- M.Sc. (Laurea) degree in Mathematics
University of Trento, Italy
27 Mar 2002
Thesis: All-Pairs and Matching-like Shortest Paths Algorithms
Advisor: Prof. Romeo Rizzi
Final Score: 110/110 cum Laude
Notes: Degree obtained within the legal length period (4 years) of the programme

1.3 Italian National Scientific Qualification (ASN)

- National Scientific Qualification for full professorship:
 - sector 01/B1 – Informatics, awarded on 12 Dec 2023
<https://asn21.cineca.it/pubblico/miur/esito-abilitato/01%252FB1/1/6>
 - sector 09/H1 – Information Processing Systems, awarded on 17 Dec 2023
<https://asn21.cineca.it/pubblico/miur/esito-abilitato/09%252FH1/1/6>
- National Scientific Qualification for associate professorship:
 - sector 01/B1 – Informatics, awarded on 5 Dec 2017
<https://asn16.cineca.it/pubblico/miur/esito-abilitato/01%252FB1/2/3>
 - sector 09/H1 – Information Processing Systems, awarded on 5 Dec 2017
<https://asn16.cineca.it/pubblico/miur/esito-abilitato/09%252FH1/2/3>

1.4 Current position

Associate Professor of Informatics at the University of Verona, within the Department of Foreign Languages and Literatures

since: 28 Dec 2018

1.5 Previous positions

1.5.1 Previous research and work experience

- Research Scientist at Fondazione Bruno Kessler (FBK), Trento, Italy
8 May 2007 - 27 Dec 2018
- Software Developer at S.a.i.tec. Srl c/o Phoenix Informatica Bancaria SpA, Trento, Italy
1 Aug 2006 - 7 May 2007

1.5.2 Research grants

- Research grant at the Department of Information Engineering and Computer Science (DISI), University of Trento
1 Nov 2005 - 31 Mar 2006
- Research grant at the Department of Information Engineering and Computer Science (DISI), University of Trento
1 May 2002 - 31 Oct 2002

1.5.3 Ph.D. scholarship

- Ph.D. Student (with Scholarship) at the ICT School of the University of Trento, Italy
1 Nov 2002 - 31 Oct 2005

2 Teaching activities and service to students

Scope and content of teaching activities Since academic year 2018/19, my teaching has included Informatics courses and laboratory activities in Bachelor's and Master's degree programmes of the Department of Foreign Languages and Literatures, as well as educational activities in Ph.D. programmes, professional Master's programmes and University-wide transversal training. Topics include digital humanities, programming, databases, natural language processing, the Semantic Web, Artificial Intelligence and digital accessibility. A recurring element is the use of computational methods and tools for analysing and managing linguistic, literary and cultural content.

2.1 Teaching activities and continuity of commitment

2.1.1 Teaching in Bachelor's / Master's degree programmes

The list comprises 31 annual teaching appointments for a total of 1,020 scheduled hours: 900 hours in academic years 2018/19–2025/26 and 120 hours in 2026/27, currently in progress.

- Academic year 2026-2027:
 - Introduction to Digital Humanities (ongoing)
Hours: 36, CFU: 6, SSD: INFO-01/A
Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona
 - Programming Languages for the Humanities (ongoing)
Hours: 36, CFU: 6, SSD: INFO-01/A
Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona
 - Computer-based Language Processing Lab (scheduled for the second semester)
Hours: 36, CFU: 3, SSD: INFO-01/A
Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona
 - Advanced Digital Humanities Lab (Module I) (delivered)
Hours: 12, CFU: 1, SSD: INFO-01/A
Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona
- Academic year 2025-2026:
 - Introduction to Digital Humanities
Hours: 36, CFU: 6, SSD: INFO-01/A
Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona
 - Programming Languages for the Humanities
Hours: 36, CFU: 6, SSD: INFO-01/A
Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona
 - Computer-based Language Processing Lab
Hours: 36, CFU: 3, SSD: INFO-01/A
Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona
 - Advanced Digital Humanities Lab (Module I)
Hours: 12, CFU: 1, SSD: INFO-01/A
Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona

- Academic year 2024-2025:
 - Introduction to Digital Humanities
Hours: 36, CFU: 6, SSD: INFO-01/A
Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona
 - Programming Languages for the Humanities
Hours: 36, CFU: 6, SSD: INFO-01/A
Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona
 - Advanced Digital Humanities Lab (Module I)
Hours: 12, CFU: 1, SSD: INFO-01/A
Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona
 - Electronic commerce
Hours: 36, CFU: 6, SSD: INFO-01/A
Master's degree in Languages for Communication in Tourism and Commerce, University of Verona
- Academic year 2023-2024:
 - Introduction to Digital Humanities
Hours: 36, CFU: 6, SSD: INF/01
Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona
 - Programming Languages for the Humanities
Hours: 36, CFU: 6, SSD: INF/01
Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona
 - Advanced Digital Humanities Lab (Module I)
Hours: 12, CFU: 1, SSD: INF/01
Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona
 - Electronic commerce
Hours: 36, CFU: 6, SSD: INF/01
Master's degree in Languages for Communication in Tourism and Commerce, University of Verona
- Academic year 2022-2023:
 - Introduction to Digital Humanities
Hours: 36, CFU: 6, SSD: INF/01
Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona
 - Programming Languages for the Humanities
Hours: 36, CFU: 6, SSD: INF/01
Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona
 - Databases and Information Systems for the Humanities
Hours: 36, CFU: 6, SSD: INF/01
Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona
 - Electronic commerce
Hours: 36, CFU: 6, SSD: INF/01

Master's degree in Languages for Communication in Tourism and Commerce, University of Verona

- Academic year 2021-2022:
 - Introduction to Digital Humanities
Hours: 36, CFU: 6, SSD: INF/01
Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona
 - Programming Languages for the Humanities
Hours: 36, CFU: 6, SSD: INF/01
Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona
 - Databases and Information Systems for the Humanities
Hours: 36, CFU: 6, SSD: INF/01
Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona
- Academic year 2020-2021:
 - Introduction to Digital Humanities
Hours: 36, CFU: 6, SSD: INF/01
Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona
 - Programming Languages for the Humanities
Hours: 36, CFU: 6, SSD: INF/01
Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona
 - Digital Humanities
Hours: 36, CFU: 6, SSD: INF/01
Bachelor's degree in Languages and Cultures for Publishing, University of Verona
- Academic year 2019-2020:
 - Introduction to Digital Humanities
Hours: 36, CFU: 6, SSD: INF/01
Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona
 - Digital Humanities
Hours: 36, CFU: 6, SSD: INF/01
Bachelor's degree in Languages and Cultures for Publishing, University of Verona
 - Electronic commerce
Hours: 36, CFU: 6, SSD: INF/01
Master's degree in Languages for Communication in Tourism and Commerce, University of Verona
- Academic year 2018-2019:
 - Electronic commerce (A-L)
Hours: 36, CFU: 6, SSD: INF/01
Master's degree in Languages for Communication in Tourism and Commerce, University of Verona
 - Electronic commerce (M-Z)
Hours: 36, CFU: 6, SSD: INF/01
Master's degree in Languages for Communication in Tourism and Commerce, University of Verona

2.1.2 Teaching in Ph.D. programmes

Teaching in Ph.D. programmes comprises 8 modules for a total of 66 hours.

- Academic year 2022-2023:
 - Python programming language
Hours: 16, CFU: 4
Ph.D. School, University of Verona
- Academic year 2021-2022:
 - Crash course on Python programming for the Humanities
Hours: 12, CFU: 3
Ph.D. programme in Foreign Languages and Literatures + Ph.D. programme in Linguistics, University of Verona
- Academic year 2020-2021:
 - Natural Language Processing for analyzing written textual resources
Hours: 4, CFU: 1
Ph.D. programme in Foreign Literatures, Languages and Linguistics, University of Verona
 - Semantic Web and Linked Data technologies for the humanities
Hours: 4, CFU: 1
Ph.D. programme in Foreign Literatures, Languages and Linguistics, University of Verona
 - Working with Textual Files: Encodings and Regular Expressions
Hours: 4, CFU: 1
Ph.D. programme in Foreign Literatures, Languages and Linguistics, University of Verona
- Academic year 2019-2020:
 - A gentle introduction to Natural Language Processing and Semantic Web technologies for Digital Humanities research
Hours: 12, CFU: 3
Ph.D. programme in Foreign Literatures, Languages and Linguistics, University of Verona
 - The eXtensible Markup Language (XML) and the Textual Encoding Initiative (TEI): standards for text representation in the humanities
Hours: 2, CFU: 0.5
Ph.D. programme in Foreign Literatures, Languages and Linguistics, University of Verona
- Academic year 2018-2019:
 - A gentle introduction to Natural Language Processing and Semantic Web technologies for Digital Humanities research
Hours: 12, CFU: 3
Ph.D. programme in Foreign Literatures, Languages and Linguistics, University of Verona

2.1.3 Teaching in professional Master's programmes

Teaching in professional Master's programmes comprises 3 modules for a total of 20 hours.

- Academic year 2024-2025:
 - Assistive Technologies and Digital Tools for Accessibility and Inclusion
Hours: 4, CFU: 1, SSD: INFO-01/A
Professional Master's programme In Inclusive Language Teaching, University of Verona
- Academic year 2021-2022:

- Electronic commerce and information technologies
Hours: 8, CFU: 2, SSD: INF/01
Professional Master's programme in English for international business and global affairs, University of Verona
- Academic year 2020-2021:
 - Electronic commerce and information technologies
Hours: 8, CFU: 2, SSD: INF/01
Professional Master's programme in English for international business and global affairs, University of Verona

2.1.4 Other teaching activities

- Lectures "From text to data: how a machine processes language" (2h), "Bias, stereotypes and discrimination in artificial intelligence systems" (2h) and "Prompt engineering: fundamentals and techniques" (2h) for the course "Artificial Intelligence Literacy" for students of the University of Verona, offered in blended mode: 2026-27
- Module "Accessibility of digital documents" (3h, with Manuel Boschiero) in the course for transversal skills "Technologies and strategies for inclusive and accessible training" (University of Verona): 2021-22, 2022-23, 2023-24, 2024-25, 2025-26
- Language Resources and Ontologies (co-lecturer: Sara Tonelli) - Master Degree in Philosophy and languages of modernity, University of Trento, Italy (A.A 2012-2013)
- Lectures for course Language Resources and Ontologies, Master in Human Language Technology and Interface, University of Trento (2010-2011, 2011-2012)
- Lectures for the International Winter Camp on Language and Data/Knowledge, TrentoRise (2012)
- Lectures for course Computational Linguistics, M.Sc. in Cognitive Science, University of Trento (2012)
- Lectures for course Business Process Re-engineering, M.Sc. in Net Economics, University of Trento (2010, 2011)
- Lectures for course Computational Complexity, M.Sc. in Computer Science, University of Trento (2004, 2005)

2.1.5 Coordination and organization of educational activities

- Scientific coordination and organization of the Advanced Training and Professional Development Course in "Artificial Intelligence for the Humanities" (6 ECTS), approved by the University and scheduled for 2027. Planned content: "Fundamentals of Artificial Intelligence (4 hours)"; "Large language models: an introduction to informed use (4 hours)"; "Principles of prompt engineering (4 hours)"; "LLMs for literary studies (4 hours)"; "LLMs for linguistic analysis (4 hours)".
1 Feb 2027 - 30 Apr 2027
Hours: 20
University of Verona
- Scientific coordination and organization of the Winter School "Let's go Digital! DiLLS School in Digital Humanities (DSDH)". Winter School for doctoral students introducing the application of digital and information technologies to the humanities. Topics covered: "The Digital Humanities as a scholarly field: an introduction (2hrs)"; "Standards for text representation in the humanities (4hrs)"; "Digitalization and semi-automatic transcription of literary texts with OCR tools (4hrs)"; "Natural Language Processing (NLP) for analyzing written textual resources (4hrs)"; "Methods and Tools for Distant Reading (4hrs)"; "Semantic Web and Linked Data technologies for the humanities (4hrs)".
11 Jan 2021 - 15 Jan 2021

Hours: 22

Ph.D. programme in Foreign Literatures, Languages and Linguistics, University of Verona

2.2 Examinations, committees and service to students

2.2.1 Course examinations

I have chaired the examination boards for all courses for which I am or have been responsible and have regularly served as a member of examination boards for other courses in the field. For the courses listed below, the documented activity on examination boards that I chaired comprises 183 examination sessions and 2,299 formally recorded results.

- Electronic commerce
Sessions: 32; Total registered students: 870; Results entered: 727; Results formally recorded: 650
- Informatica
Sessions: 14; Total registered students: 24; Results entered: 14; Results formally recorded: 14
- Informatica per gli studi umanistici
Sessions: 23; Total registered students: 842; Results entered: 662; Results formally recorded: 658
- Introduzione all'informatica umanistica
Sessions: 42; Total registered students: 1022; Results entered: 849; Results formally recorded: 824
- Laboratorio avanzato di informatica umanistica
Sessions: 18; Total registered students: 39; Results entered: 33; Results formally recorded: 33
- Laboratorio di computer-based language processing
Sessions: 4; Total registered students: 5; Results entered: 5; Results formally recorded: 5
- Linguaggi di programmazione per l'ambito umanistico
Sessions: 36; Total registered students: 111; Results entered: 91; Results formally recorded: 89
- Sistemi informativi e basi di dati per l'ambito umanistico
Sessions: 14; Total registered students: 29; Results entered: 26; Results formally recorded: 26

2.2.2 Participation in graduation committees

I have served on 15 graduation committees at the University of Verona: 12 for Master's degrees and 3 for Bachelor's degrees.

- Participation in Master's degree graduation committees at the University of Verona (12):
01/04/2026 (role: member, candidates: 10)
08/07/2025 (role: member, candidates: 4)
07/11/2024 (role: secretary, candidates: 5)
04/04/2024 (role: member, candidates: 14)
03/04/2023 (role: deputy chair, candidates: 14)
31/03/2022 (role: deputy chair, candidates: 9)
07/04/2021 (role: member, candidates: 15)
06/07/2020(I) (role: secretary, candidates: 9)
06/07/2020(II) (role: secretary, candidates: 2)
30/03/2020(I) (role: chair, candidates: 17)
30/03/2020(II) (role: member, candidates: 12)
07/11/2019 (role: chair, candidates: 6)
- Participation in Bachelor's degree graduation committees at the University of Verona (3):
09/11/2023 (role: member, candidates: 90)
14/07/2022 (role: member, candidates: 67)
04/11/2020 (role: chair, candidates: 61)

2.2.3 Evaluation of final projects and Master's theses

I have acted as additional examiner/reviewer for 36 final projects and theses: 28 Bachelor's final projects and 8 Master's theses. The count includes only activities in which the role was purely evaluative, without continuous involvement in the development of the final work. Activities in which I continuously followed the work as supervisor or co-supervisor are documented in the supervision section.

2.2.4 Institutional teaching appointments and student service

- Programme Director of the Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona
1 Oct 2021 - 30 Sep 2022
- Member of the Quality Assurance Board of the Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona
29 May 2019 - 30 Sep 2022
- Member of the IT skills commission for the Bachelor's and Master's degrees of the Department of Foreign Languages and Literatures, University of Verona
since: 25 Sep 2019
- Evaluator of the applications for the INFO-01/A (INF/01) [Computer Science] teaching contracts of the Department of Foreign Languages and Literatures, University of Verona
since: 28 Dec 2018
- Member of the working group for the revision of the Course of study of the Master's degree in Languages, Literatures and Digital Culture (LM37), University of Verona
3 Mar 2021 - 12 May 2022
- Member of the Teaching Board for Foreign Languages and Literatures, University of Verona
since: 28 Dec 2018

2.3 Supervision, co-supervision and tutoring

2.3.1 Supervision and co-supervision of Ph.D. theses

I have supervised or co-supervised a total of 9 Ph.D. theses.

- Iftikhar Muhammad
Firm-specific news sentiment and short-horizon risk-adjusted return predictability: evidence from large language models
University of Verona
1 Oct 2023 - 13 Jul 2026
(with Marco Minozzo, Francesca Rossi (in memoriam))
Thesis: <https://iris.univr.it/handle/11562/1195907>
- Gabriele Vezzani
The Emergence and Negotiation of Literary Value in Online Environments
University of Verona
1 Oct 2022 - 28 Apr 2026
(with Massimo Salgaro, Simone Rebora)
Thesis: <https://iris.univr.it/handle/11562/1187967>
- Husnain Raza
Detecting Propaganda in Ukraine-Russia War Tweets by Politicians: A CACDA and Computational Perspective
University of Verona
1 Oct 2021 - 13 May 2025

(with Maria Ivana Lorenzetti)

Thesis: <https://iris.univr.it/handle/11562/1157088>

- Marco Bombieri
Automatic extraction of robotic surgery actions from text and kinematic data
University of Verona
1 Oct 2019 - 3 Jul 2023
(with Paolo Fiorini)
Thesis: <https://iris.univr.it/handle/11562/1097006>
- Antonio Arnieri
Sound and Identity in Shakespeare's Theatre
University of Verona
1 Jan 2019 - 15 Jul 2022
(with Susanna Zinato)
Thesis: <https://iris.univr.it/handle/11562/1069186>
- Roxane Segers
Formalizing Events for Detecting Implicit Event Information in Natural Language Text
Vrije Universiteit Amsterdam
since: 8 May 2018
(with Piek Vossen)
- Matteo Lorenzini
Metadata Quality Evaluation in Cultural Heritage Domain
University of Trento
1 Nov 2017 - 15 Feb 2022
(with Sara Tonelli)
Thesis: <https://iris.unitn.it/handle/11572/330448>
- Giulio Petrucci
Learning to Learn Concept Descriptions
University of Trento
1 Nov 2013 - 21 Sep 2018
(with Chiara Ghidini)
Thesis: <https://iris.unitn.it/handle/11572/369070>
- Francesco Corcoglioni
Frame-based Ontology Population from Text: Models, Systems and Applications
University of Trento
1 Nov 2012 - 21 Apr 2016
(with Luciano Serafini)
Thesis: <https://iris.unitn.it/handle/11572/369290>

2.3.2 Supervision and co-supervision of Master's / Bachelor's theses

The supervision and co-supervision activities below concern 47 Master's, Master's degree and Bachelor's degree theses.

- Master's degree in Computer Science, University of Trento (5):
Matteo Matassoni (2014), Rakebul Hasan (2009), Nahid E Mahbub (2009), Md Kamrul Hasan (2009), Musawar Saeed (2009)
- LCT European Masters Program, University of Trento (1):
Yiqing Liang (2017)
- Master's degree in Linguistics, University of Verona (1):
Samaneh Eksir (2023)

- Master's degree in Languages, Literatures and Digital Culture, University of Verona (1): Sara Passigato (2026)
- Master's degree in Languages for Communication in Tourism and Commerce, University of Verona (8): Elisa Benedetti (2021), Silvia Cavazza Ceccato (2020), Michela Pecora (2020), Gaia Tacchini (2020), Irina Casian (2020), Erica Fattori (2020), Beatrice Giacomazzi (2019), Francesca Tosato (2019)
- Bachelor's degree in Computer Science, University of Trento (1): Marco Spanò (2018)
- Bachelor's degree in Languages and Cultures for Publishing, University of Verona (12): Maria Chiara Lubbers (2024), Consuelo Dal Bosco Ercole (2024), Chiara Lazzari (2022), Daniela Xhupi (2022), Clarita Ferri (2022), Isabella Jaforte (2021), Martina Zanetti (2021), Ester Marchi (2021), Beatrice Vanoli (2021), Arianna Zanrossi (2020), Federica Pampalone (2020), Francesca Tirapelle (2020)
- Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona (13): Stefano Dall'Olmo (2026), Anna Romano (2025), Letizia Zanetti (2025), Sara Grolli (2025), Giorgia Peserico (2025), Alessandra Sirghe (2025), Madalina Stefan (2024), Samuele Nigrone (2024), Laura Gobbo (2024), Fabiola Carfi (2024), Martina Caridi (2023), Rebecca Guolo (2022), Amedeo Onnis (2022)
- Bachelor's degree in Languages and Cultures for Tourism and International Commerce (3): Sara Turrini (2021), Francesca Laganà (2020), Lukasz Kolasowski (2020)
- Bachelor's degree in Computer Science, University of Verona (1): Mattia Donà (2023)
- Bachelor's degree in Bioinformatics, University of Verona (1): Hazem Mohamed Ahmed (2026)

2.3.3 Supervision and co-supervision of internships and scholarships

The list comprises 75 tutoring and co-tutoring activities for internships and scholarships.

- post-Master Research Internships (FBK, Trento) (1): Gianluca Maguolo (2018)
- LCT European Masters Program, University of Trento (1): Yiqing Liang (2017)
- Master's degree in Computer Science, University of Trento (2): Nahid E Mahbub (2009), Md Kamrul Hasan (2009)
- Bachelor's degree in Computer Science, University of Trento (3): Alessio Scussel (2016), Gianluca Apriceno (2015), Enrico Magnago (2015)
- Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona (4): Martina Baú (2025), Martina Furlan (2025), Jasmine Touarsa (2021), Marta Cafà (2021)
- Academic tutor for external internships of students at the University of Verona (64).

2.4 Participation in doctoral training and evaluation

2.4.1 Membership of Ph.D. programme boards

The documented participation in Ph.D. programme boards covers 8 doctoral cycles.

- Teaching Committee for the Ph.D. Programme in Computer Science (University of Verona)
since: 1 Apr 2023
Ph.D. Cycles: 42, 41, 40, 39
- Teaching Committee for the Ph.D. Programme in Foreign Languages and Literatures (University of Verona)
1 Oct 2021 - 31 Mar 2023
Ph.D. Cycles: 38, 37
- Teaching Committee for the Ph.D. Programme in Foreign Languages, Literatures and Linguistics (University of Verona)
15 Mar 2019 - 30 Sep 2021
Ph.D. Cycles: 36, 35

2.4.2 Membership of Ph.D. final examination committees

I have served on 7 final Ph.D. examination committees.

- Levi Remijnse
Underlying Pragmatic Factors in Linguistic Framing of Events
Vrije Universiteit Amsterdam
25 Nov 2025
- Teresa Paccosi
Tracing Sensory Events: A Frame-Based Approach to Automatically Capture and Diachronically Analyse Olfactory and Gustatory Information from Texts
University of Trento
14 Mar 2025
- Patrizio Bellan
Process Extraction from Text: a Reference Corpus, a Benchmark, and a Generative AI Approach
Free University of Bozen-Bolzano
2 Jul 2024
- Pietro Dell'Oglio
Episode detection and mining in real world applications
University of Firenze, Pisa, and Siena
18 Apr 2024
- Marco Bombieri
Automatic extraction of robotic surgery actions from text and kinematic data
University of Verona
3 Jul 2023
- Matteo Lorenzini
Metadata Quality Evaluation in Cultural Heritage Domain
University of Trento
15 Feb 2022
- Yaroslav Nechaev
Linking Knowledge Bases to Social Media Profiles
University of Trento
15 Apr 2019

2.4.3 Membership of Ph.D. personal monitoring committees

- Thi Thao HA
Toward Culturally and Contextually Grounded Language Models

2.4.4 Reviewing of Ph.D. theses

I have reviewed 3 Ph.D. theses.

- Prameela Madambakam
Dual-Level Semantics and Dependency Learning Framework for Multi-Task Judicial Decision Prognosis in the Indian Legal Context
Indian Institute of Information Technology, Sri City, Chittoor
2026
- Levi Remijnse
Underlying Pragmatic Factors in Linguistic Framing of Events
Vrije Universiteit Amsterdam
2025
- Patrizio Bellan
Process Extraction from Text: a Reference Corpus, a Benchmark, and a Generative AI Approach
Free University of Bozen-Bolzano
2024

3 Scientific research activities

Research profile and research lines My research concerns knowledge representation, automated reasoning, the Semantic Web, information extraction and retrieval, natural language processing and machine learning, with particular attention to their application in Digital Humanities and linguistic, literary and cultural studies. More recent activities also include the use and evaluation of Large Language Models, with particular attention to their limitations, reliability, safety and applications to accessibility and inclusion. My training and early research activity also include contributions in computational complexity, algorithmic graph theory and combinatorial optimisation.

Methodologically, my research includes the design, development and evaluation of models, algorithms and systems for acquiring, extracting, representing, integrating, querying and automatically processing knowledge. These activities are complemented by the design, implementation and public release of software, ontologies, knowledge graphs, linguistic resources and datasets for experimentation, evaluation and scientific reuse.

Application areas include Digital Humanities, linguistic and literary studies, digital accessibility, inclusive education, environmental decision support and robotic surgery. These areas provide application contexts in which computational methods and tools have been developed and evaluated, and they are documented in the sections on research groups and collaborations, projects, scientific resources and publications.

3.1 Organisation and participation in conferences and scientific dissemination

Scientific dissemination and public-engagement activities are further documented in § 4.3; resources and activities related to Open Science principles are described in § 4.2.

3.1.1 Organizational roles in conferences and workshops

The list comprises a total of 18 organizational roles in national and international conferences and workshops.

- Chair of the special track on Knowledge and Natural Language Processing (KNLP) at the 42nd ACM SIGAPP Symposium On Applied Computing (ACM-SAC2027)
5 Apr 2027 - 9 Apr 2027
Gwangju, South Korea
<https://knlp-sac.github.io/2027/>
- Chair of the special track on Knowledge and Natural Language Processing (KNLP) at the 41st ACM SIGAPP Symposium On Applied Computing (ACM-SAC2026)
23 Mar 2026 - 27 Mar 2026
Thessaloniki, Greece
<https://knlp-sac.github.io/2026/>
- Member of the Organizing Committee of the 15th conference of Associazione Italiana per l'Informatica Umanistica e la Cultura Digitale (Italian DH association) (AIUCD 2026)
3 Jun 2026 - 5 Jun 2026
Cagliari, Italy
<https://aiucd2026.unica.it/>
- General Chair of the 14th conference of Associazione Italiana per l'Informatica Umanistica e la Cultura Digitale (Italian DH association) (AIUCD 2025)
11 Jun 2025 - 13 Jun 2025
Verona, Italy
<https://aiucd2025.dlcs.univr.it/>
- Chair of the special track on Knowledge and Natural Language Processing (KNLP) at the 40th ACM SIGAPP Symposium On Applied Computing (ACM-SAC2025)
31 Mar 2025 - 4 Apr 2025

Catania, Italy

<https://knlp-sac.github.io/2025/>

- Programme chair of the 24th International Conference on Knowledge Engineering and Knowledge Management (EKAW-24)
26 Nov 2024 - 28 Nov 2024
Amsterdam, NL
<https://event.cwi.nl/ekaw2024/>
- Organizing committee member of the Diversity, Accessibility and Inclusion in the Digital text and Cultural Heritage conference (DAIDH 2024)
22 May 2024 - 24 May 2024
Verona, IT
https://daih.eu/events/2024.05.22_daidh/
- Chair of the special track on Knowledge and Natural Language Processing (KNLP) at the 39th ACM SIGAPP Symposium On Applied Computing (ACM-SAC2024)
8 Apr 2024 - 12 Apr 2024
Avila, Spain
<https://klp.fbk.eu>
- Chair of the special track on Knowledge and Natural Language Processing (KNLP) at the 38th ACM SIGAPP Symposium On Applied Computing (ACM-SAC2023)
27 Mar 2023 - 31 Mar 2023
Tallinn, Estonia
<https://doi.org/10.1145/3555776>
- Chair of the special track on Knowledge and Natural Language Processing (KNLP) at the 37th ACM SIGAPP Symposium On Applied Computing (ACM-SAC2022)
25 Apr 2022 - 29 Apr 2022
Brno, Czech Republic
<https://doi.org/10.1145/3535434>
- Chair of the special track on Knowledge and Language Processing (KLP) at the 36th ACM SIGAPP Symposium On Applied Computing (ACM-SAC2021)
22 Mar 2021 - 26 Mar 2021
Gwangju, South Korea / Virtual
<https://doi.org/10.1145/3462420>
- Chair of the special track on Knowledge and Language Processing (KLP) at the 35th ACM SIGAPP Symposium On Applied Computing (ACM-SAC2020)
30 Mar 2020 - 3 Apr 2020
Brno, Czech Republic / Virtual
<https://doi.org/10.1145/3389659>
- Chair of the special track on Knowledge and Language Processing (KLP) at the 34th ACM SIGAPP Symposium On Applied Computing (ACM-SAC2019)
8 Apr 2019 - 12 Apr 2019
Limassol, Cyprus
<https://doi.org/10.1145/3329375>
- Chair of Doctoral Consortium of the 17th International Conference of the Italian Association for Artificial Intelligence (AI*IA 2018)
20 Nov 2018 - 23 Nov 2018
Trento, Italy
<https://ceur-ws.org/Vol-2249/>
- Chair of the special track on Cognitive Computing (CoCo) at the 33rd ACM SIGAPP Symposium On Applied Computing (ACM-SAC2018)

9 Apr 2018 - 13 Apr 2018

Pau, France

<https://doi.org/10.1145/3258634>

- Chair of the special track on Cognitive Computing (CoCo) at the 32nd ACM SIGAPP Symposium On Applied Computing (ACM-SAC2017)
27 Mar 2017 - 31 Mar 2017
Marrakech, Morocco
<https://doi.org/10.1145/3243944>
- Chair of the 4th International Workshop on Detection, Representation, and Exploitation of Events in the Semantic Web (DeRiVE 2015), co-located with 12th Extended Semantic Web Conference (ESWC 2015)
31 May 2015 - 31 May 2015
Portoroz, Slovenia
<https://ceur-ws.org/Vol-1363/>
- Chair of the Posters and Demos track of the 13th International Semantic Web Conference (ISWC2014)
19 Oct 2014 - 23 Oct 2014
Riva del Garda, Italy
<https://ceur-ws.org/Vol-1272/>

3.1.2 Seminars and Invited Talks

I have given a total of 14 invited presentations and seminars.

- Joint Posterior Revision of NLP Entity Annotations via Ontological Knowledge
NLP seminar series at Dublin City University / ADAPT Centre - Dublin, Ireland
13 Feb 2023
Slides: https://marcorospoher.com/files/slides/2023adapt_slides.pdf
- Knowledge representation and reasoning with ontologies
Commonsense Reasoning in Surgical Robotics (COSER) summer school - Verona, Italy
3 May 2022
Slides: https://marcorospoher.com/files/slides/2022coser_slides.pdf
- Joint Posterior Revision of NLP Entity Annotations via Ontological Knowledge
Montreal Natural Language Processing Consortium (MTL-NLP) - Montreal, Canada
22 Jan 2021
Slides: https://marcorospoher.com/files/slides/2021mtl_slides.pdf
Video: <https://www.youtube.com/watch?t=274&v=L8rn6nt7mNE>
- Modelling, learning and populating ontologies for the Semantic Web
Department of Computer Science, University of Verona - Verona, Italy
4 Dec 2019
Slides: https://marcorospoher.com/files/slides/2019DIuniVR_slides.pdf
- Improving NLP Entity Annotations via Ontological Knowledge
SCC Seminar Series (FBK) - Trento, Italy
15 Nov 2018
Slides: https://marcorospoher.com/files/slides/2018scc_slides.pdf
- Learning Expressive Ontological Concept Descriptions via Neural Networks
Invited Keynote at the 4th Workshop on Semantic Deep Learning SemDeep-4 - Monterey, CA, US
4 Oct 2018
Slides: https://marcorospoher.com/files/slides/2018semdeep4_slides.pdf
- An Ontological Framework for Decision Support
Ontology Summit Track C session on Decision Making in Different Domains - Virtual Meeting

19 Mar 2015

Slides: https://marcorospoche.com/files/slides/2015ontosum_slides.pdf

- Collaborative modeling of processes and ontologies
BMIR Research Colloquium - Stanford University, Palo Alto, US
22 Sep 2011
Slides: https://marcorospoche.com/files/slides/2011bmir_slides.pdf
- Collaborative modeling of processes and ontologies
DERI Open Day - Digital Enterprise Research Institute, Galway, Ireland
7 Apr 2011
Slides: https://marcorospoche.com/files/slides/2011deri_slides.pdf
- MoKi and the ProDe project
ICT Days - University of Trento, Trento, Italy
16 Mar 2011
Slides: https://marcorospoche.com/files/slides/2011ict_slides.pdf
- MoKi: the Modelling Wiki
ILIKS Annual Meeting - Trento, Italy
18 Dec 2009
Slides: https://marcorospoche.com/files/slides/2009iliks_slides.pdf
- Organic Agriculture and MoKi
Organic.Edunet Ontology Workshop Meeting - FAO, Rome, Italy
6 Oct 2009
- Modelling in APOSDLE
ACTIVE EU Project Meeting - STI, Innsbruck, Austria
27 Jan 2009
Slides: https://marcorospoche.com/files/slides/2009active_slides.pdf
- On the Computational Complexity of Listing Certificates of NP problems
ITC Seminars - Istituto Trentino di Cultura, Trento, Italy
18 Oct 2006
Slides: https://marcorospoche.com/files/slides/2006itc_slides.pdf

3.1.3 Conference and workshop presentations

The list comprises a total of 34 presentations at conferences and workshops.

- Plausible but Different: Comparing Human and LLM-Simulated Open-Ended Survey Responses in Italian
Twelfth Italian Conference on Computational Linguistics (CLiC-it 2026) - Palermo, Italy
14 Sep 2026 - 16 Sep 2026
Slides: <https://marcorospoche.com/files/slides/2026clitIT.pdf>
- Improving the Accessibility of Digital Learning Materials in the University Context: a Case Study
Diversity, Accessibility and Inclusion in the Digital text and Cultural Heritage: Challenges and Perspectives - Verona, Italy
22 May 2024 - 24 May 2024
Slides: https://marcorospoche.com/files/slides/2024daidh_slides.pdf
- Migliorare l'accessibilità dei materiali didattici digitali nel contesto universitario: un caso di studio
MoodleMoot Italia 2023 - Firenze, Italy
14 Dec 2023 - 16 Dec 2023
Video: <https://www.youtube.com/watch?v=BN10BcqZepk&t=3622s>
- Spazi e piattaforme digitali DiLLS@UniVR
Digital Humanities Marathon (Eccellenza in testa) - Ca' Foscari University of Venice, Venice, Italy

13 Oct 2022

Note: Also participated in the round table 'Quale sostenibilità?'

Slides: https://marcorospoher.com/files/slides/2022dhMarathon_slides.pdf

- La Traduzione di Schede Terminologiche in Banche Dati di Tipo Rete Lessicale: il caso DIACOM-Fr
XXXI Convegno Associazione Italiana per la Terminologia - Verona, Italy
10 Dec 2021
- Ontologie e locuzioni: modellizzazione di termini complessi nell'ambito del progetto DIACOM
XXX Convegno Associazione Italiana per la Terminologia - Bolzano, Italia
15 Oct 2020 - 16 Oct 2020
- An Ontology-Driven Probabilistic Soft Logic Approach to Improve NLP Entity Annotations
17th International Semantic Web Conference, ISWC 2018 - Monterey, CA, USA
8 Oct 2018 - 12 Oct 2018
Slides: https://marcorospoher.com/files/slides/2018iswc_research_slides.pdf
Video: http://videlectures.net/iswc2018_rossocher_ontology_driven_soft/
- Joint Posterior Revision of NLP Annotations via Ontological Knowledge
27th International Joint Conference on Artificial Intelligence and the 23rd European Conference on Artificial Intelligence, IJCAI-ECAI 2018 - Stockholm, Sweden
13 Jul 2018 - 19 Jul 2018
Slides: https://marcorospoher.com/files/slides/2018ijcai_slides.pdf
- Towards Integration of Ontology and Text-extracted Data for Event Coreference Reasoning
32nd Annual ACM Symposium on Applied Computing, ACM-SAC2017 - Marrakesh, Morocco
3 Apr 2017 - 7 Apr 2017
Poster: https://marcorospoher.com/files/posters/2017sac_poster.pdf
- Knowledge Extraction for Information Retrieval
12th Extended Semantic Web Conference, ESWC 2016 - Heraklion, Crete, Greece
29 May 2016 - 2 Jun 2016
Slides: https://marcorospoher.com/files/slides/2016eswc_slides.pdf
Video: http://videlectures.net/eswc2016_rossocher_information_retrieval/
- KnowledgeStore
NewsReader Workshop - Amsterdam Public Library, Amsterdam, Netherlands
21 Nov 2015
Slides: https://marcorospoher.com/files/slides/2015nwr_slides.pdf
- Demonstrating the Power of Streaming and Sorting for Non-distributed RDF Processing: RDFpro
14th International Semantic Web Conference, ISWC 2015 - Bethlehem, USA
11 Oct 2015 - 15 Oct 2015
Poster: https://marcorospoher.com/files/posters/2015iswcdemo2_poster.pdf
- Extracting Knowledge from Text with PIKES
en:14th International Semantic Web Conference, ISWC 2015 - Bethlehem, USA
11 Oct 2015 - 15 Oct 2015
Poster: https://marcorospoher.com/files/posters/2015iswcdemo1_poster.pdf
- Processing Billions of RDF Triples on a Single Machine using Streaming and Sorting
30th Annual ACM Symposium on Applied Computing, ACM-SAC2015 - Salamanca, Spain
13 Apr 2015 - 17 Apr 2015
Slides: https://marcorospoher.com/files/slides/2015sac_slides.pdf
- KnowledgeStore
Workshop on Deep and Large-Scale Semantic Processing: The Way Ahead - Trento, Italy
10 Mar 2015
Slides: https://marcorospoher.com/files/slides/2015jpn_slides.pdf

- On the Collaborative Development of Application Ontologies: A Practical Case Study with a SME
19th International Conference on Knowledge Engineering and Knowledge Management, EKAW 2014
- Linköping, Sweden
24 Nov 2014 - 28 Nov 2014
Slides: https://marcorospoher.com/files/slides/2014ksem_slides.pdf
- Integrating Unstructured and Structured Knowledge with the KnowledgeStore
19th International Conference on Knowledge Engineering and Knowledge Management, EKAW 2014
- Linköping, Sweden
24 Nov 2014 - 28 Nov 2014
Poster: https://marcorospoher.com/files/posters/2014ekawdemo_poster.pdf
- A Simple API to the KnowledgeStore
Developers Workshop at the 13th Int. Semantic Web Conference (ISWC'14) - Riva del Garda, Italy
19 Oct 2014
Slides: https://marcorospoher.com/files/slides/2014iswcSemDev02_slides.pdf
- Investigating Collaboration Dynamics in Different Ontology Development Environments
7th International Conference on Knowledge Science, Engineering and Management, KSEM 2014 - Sibiu, Romania
16 Oct 2014 - 18 Oct 2014
Slides: https://marcorospoher.com/files/slides/2014ksem_slides.pdf
- An ontology for the Business Process Modelling Notation
8th International Conference on Formal Ontologies and Information Systems, FOIS2014 - Rio de Janeiro, Brazil
22 Sep 2014 - 25 Sep 2014
Slides: https://marcorospoher.com/files/slides/2014foisbpmn_slides.pdf
- An ontology for personalized environmental decision support
8th International Conference on Formal Ontologies and Information Systems, FOIS2014 - Rio de Janeiro, Brazil
22 Sep 2014 - 25 Sep 2014
Slides: https://marcorospoher.com/files/slides/2014foispescado_slides.pdf
- Interlinking Unstructured and Structured Knowledge in an Integrated Framework
7th IEEE International Conference on Semantic Computing, ICSC2013 - Irvine, CA, USA
16 Sep 2013 - 18 Sep 2013
Slides: https://marcorospoher.com/files/slides/2013icsc_slides.pdf
- An Ontological Framework for Decision Support
2nd Joint International Semantic Technology Conference, JIST2012 - Nara, Japan
2 Dec 2012 - 4 Dec 2012
Slides: https://marcorospoher.com/files/slides/2012jist_slides.pdf
- Evaluating wiki-enhanced ontology authoring
18th International Conference on Knowledge Engineering and Knowledge Management, EKAW2012 - Galway, Ireland
8 Oct 2012 - 12 Oct 2012
Slides: https://marcorospoher.com/files/slides/2012ekaw_slides.pdf
Video: <https://www.youtube.com/watch?v=zOTY8j-w4j4>
- Key-concept Extraction for Ontology Engineering
18th International Conference on Knowledge Engineering and Knowledge Management, EKAW 2012 - Galway, Ireland
8 Oct 2012 - 12 Oct 2012
Poster: https://marcorospoher.com/files/posters/2012ekawdemo_poster.pdf

- Semantic Management in PESCaDO
PESCaDO Final Event - UPF, Barcelona, Spain
14 Feb 2012
Slides: https://marcorospoher.com/files/slides/2012pescado_slides.pdf
- Conceptual Modeling in Wikis: a Reference Architecture and a Tool
The Fourth International Conference on Information, Process, and Knowledge Management, eKNOW2012
- Valencia, Spain
30 Jan 2012 - 4 Feb 2012
Slides: https://marcorospoher.com/files/slides/2012eknow_slides.pdf
- Boosting collaborative ontology building with key-concept extraction
5th IEEE International Conference on Semantic Computing, ICSC2011 - Palo Alto, CA, USA
18 Sep 2011 - 21 Sep 2011
Slides: https://marcorospoher.com/files/slides/2011icsc_slides.pdf
- MoKi: a Wiki-Based Conceptual Modeling Tool
17th International Conference on Knowledge Engineering and Knowledge Management, EKAW2010
- Lisbona, Portugal
11 Oct 2010 - 15 Oct 2010
Poster: https://marcorospoher.com/files/posters/2010ekawdemo_2_poster.pdf
- MoKi: the Modelling wiKi
SemWiki2009 - Fourth Workshop on Semantic Wikis - Heraklion, Crete, Greece
1 Jun 2009
Slides: https://marcorospoher.com/files/slides/2009semwiki_slides.pdf
- MoKi: The Enterprise Modelling Wiki
6th European Semantic Web Conference, ESWC 2009 - Heraklion, Crete, Greece
31 May 2009 - 4 Jun 2009
Poster: https://marcorospoher.com/files/posters/2009eswcdemo_poster.pdf
- Reasoning on Semantically Annotated Processes
6th International Conference on Service-Oriented Computing, ICSOC2008 - Sydney, Australia
1 Dec 2008 - 5 Dec 2008
Slides: https://marcorospoher.com/files/slides/2008icsoc_slides.pdf
- Collaborative Knowledge Engineering via Semantic MediaWiki
16th International Conference on Knowledge Engineering and Knowledge Management Knowledge Patterns, EKAW2008 - Aci Trezza, Italy
29 Sep 2008 - 3 Oct 2008
Poster: https://marcorospoher.com/files/posters/2008ekaw_poster.pdf
- Collaborative Knowledge Engineering via Semantic MediaWiki
International Conference on Semantic Systems, I-SEMANTICS08 - Graz University of Technology, Graz, Austria
3 Sep 2008 - 5 Sep 2008
Slides: https://marcorospoher.com/files/slides/2008isemantics_slides.pdf

3.1.4 Membership of conference and workshop programme committees

The list comprises a total of 118 participations in scientific evaluation and selection activities for conferences and workshops, as a member of scientific and/or programme committees.

- International Joint Conference on Artificial Intelligence (IJCAI): 2020, 2019, 2018
- AAAI Conference on Artificial Intelligence (AAAI): 2027, 2026, 2024, 2023, 2021, 2020, 2019, 2018
- The Web Conference (WWW) [formerly: International World Wide Web Conference]

- Semantics and Knowledge (Research Track): 2020, 2019
- Web Content Analysis, Semantics, and Knowledge (Research Track): 2018
- Posters Track: 2016
- International Semantic Web Conference (ISWC)
 - Research Track: 2025, 2024, 2023, 2022, 2021, 2020, 2019 (SPC), 2018, 2017, 2016, 2015, 2014
 - Resource Track: 2020, 2017
 - InUse & Software Track: 2015
 - InUse Track: 2014, 2013, 2012
 - Doctoral Consortium: 2019
 - Journal Track: 2019
 - Posters and Demos Track: 2015, 2014, 2009
- Association for Computational Linguistics (ACL) Rolling Review: May 2026
- Annual Meeting of the Association for Computational Linguistics (ACL)
 - Resources and Evaluation Track: 2019
- European Conference on Artificial Intelligence (ECAI): 2020
- Information Processing & Management Conference (IP&MC): 2022
- International Conference on Knowledge Engineering and Knowledge Management (EKAW)
 - Research Track: 2018, 2016, 2014, 2012
 - Ph.D. Symposium (+ Mentoring): 2014, 2012
- Joint Conference on Lexical and Computational Semantics (*SEM)
 - Lexical resources, linked data, ontologies Track: 2017
- European/Extended Semantic Web Conference (ESWC)
 - Main PC: 2026, 2025, 2017
 - Ontology Track: 2012
 - Ph.D. Mentor: 2016
 - Posters & Demos: 2010
- International Conference on Formal Ontology in Information Systems (FOIS)
 - Early Career Symposium: 2014
- IEEE International Conference on Semantic Computing (IEEE-ICSC): 2018, 2017, 2016, 2015, 2014, 2013, 2012
- Language Resources and Evaluation Conference (LREC): 2024, 2022, 2020, 2018, 2016
- Conference on Language, Data and Knowledge (LDK): 2023, 2021, 2019
- International Conference of the Italian Association for Artificial Intelligence (AIxIA): 2026, 2023
- International Conference on Semantic Systems (I-SEMANTICS): 2018, 2017, 2016, 2015, 2014, 2013, 2012, 2011
- International Conference on Ambient Systems, Networks and Technologies (ANT): 2023
- Italian Conference on Computational Linguistics (CLIC-it): 2021
- Convegno Annuale dell'Associazione per l'Informatica Umanistica e la Cultura Digitale (AIUCD): 2020
- Conference on Information and Research Science Connecting to Digital and Library Science (IRCDL): 2025

- Ph.D. Conference - Past, History and Memory in Language and Literary Studies (University of Verona): 2022
- International Conference on Bio-inspired Information and Communications Technologies (BICT): 2014
- International Workshop on Healthcare Empowerment and Advancement Leveraging xLM (HEALxLM): 2025
- International Workshop on Sentiment Analysis & Linguistic Linked Data (SALLD): 2021
- International Workshop on Multisensory Data & Knowledge (MDK): 2021
- International Workshop on Personalization in eGovernment Services and Applications (PEGOV): 2015, 2014, 2013
- Joint OWL Experiences and Directions Workshop (OWLED) and OWL Reasoner Evaluation Workshop (ORE): 2016
- OWL: Experiences and Directions Workshop (OWLED): 2015
- Open Knowledge Base and Question Answering Workshop (OKBQA): 2016
- International Workshop on Ontology Content (OnToContent): 2015, 2014, 2013, 2012
- Workshop on the Contextual Representation of Objects and Events in Language (CREOL): 2017
- International Conference on Building and Exploring Web Based Environments (WEB): 2016, 2015, 2014
- International Conference on Advances in Semantic Processing (SEMAPRO): 2016, 2015, 2014, 2013
- Workshop on Natural Language for Artificial Intelligence (NL4AI): 2017
- International Workshop on Environmental Multimedia Retrieval: 2015, 2014
- Workshop on Semantic Web and Information Extraction (SWAIE): 2014, 2013
- International Symposium on Intelligent Informatics (ISI): 2013
- International Workshop on Vocabularies, Ontologies and Rules for the Enterprise and Beyond (VORTE): 2013
- International Conference on Artificial Intelligence, Methodology, Systems, Applications (AIMSA): 2012
- International Conference on Complex, Intelligent, and Software Intensive Systems (CISIS): 2012
- Workshop on Context, Information And Ontologies (CIAO): 2010

3.1.5 Conference session chairing

The list comprises a total of 13 conference session-chair assignments.

- 40th ACM SIGAPP Symposium On Applied Computing (ACM SAC 2025) [Knowledge and Natural Language Processing - two sessions]
- Diversity, Accessibility and Inclusion in the Digital text and Cultural Heritage conference (DAIDH 2024)
- 39th ACM SIGAPP Symposium On Applied Computing (ACM SAC 2024) [Knowledge and Natural Language Processing session]
- 13th Language Resources and Evaluation Conference (LREC 2022) [Information Extraction (3) session]
- 36th ACM SIGAPP Symposium On Applied Computing (ACM SAC 2021) [Knowledge and Language Processing session]

- 17th International Conference of the Italian Association for Artificial Intelligence (AI*IA 2018) [Doctoral Consortium session]
- 32nd ACM SIGAPP Symposium On Applied Computing (ACM SAC 2017) [Cognitive Computing session]
- 13th International Semantic Web Conference (ISWC 2014) [NLP & IEs session]
- 13th International Semantic Web Conference (ISWC 2014) [Posters & Demos session]
- 7th IEEE International Conference on Semantic Computing (ICSC 2013) [ICSC (3) session]
- 18th International Conference on Knowledge Engineering and Knowledge Management (EKAW 2012) [Applications of knowledge engineering session]
- 2nd Joint International Semantic Technology Conference (JIST 2012) [Ontology and Description Logics session]
- 5th IEEE International Conference on Semantic Computing (ICSC 2011) [NLP session]

3.2 Direction and participation in national and international research groups

- Direction of the interdisciplinary research centre “Digital Arena for Inclusive Humanities (DAIH)” (<https://www.daih.eu>), which integrates expertise in computer science, linguistic and literary studies, and Digital Humanities.

Within the scientific direction of the centre, the main research lines concern artificial intelligence for the humanities, digital accessibility, digital scholarly editions, computational literary studies, and the development of inclusive digital resources, with particular attention to the use of digital technologies and computational methods to promote inclusion, accessibility, and the reduction of disparities in access to knowledge.

The centre brings together an interdisciplinary group of scholars and promotes research, training, scientific dissemination, and the development of digital infrastructures, also fostering student involvement through theses and internships. DAIH develops collaborations with national and international organisations, including Numero Cromatico (Italy), HD Lab – IIBRICT-CONICET (Argentina), and Edizioni Centro Studi Erickson (Italy).

Its main initiatives include the organisation of conferences and seminars, advanced training, and editorial initiatives dedicated to the centre’s themes. DAIH also contributes to the development and management of the digital infrastructures of the Department of Foreign Languages and Literatures, including platforms for open-access journals, corpora, digital archives, and resources for digital scholarship.

since: 15 Feb 2023

- Establishment and direction of the research group “Information Extraction for Robotic Surgery” (<https://www.dlts.univr.it/?ent=grupporic&id=503&lang=it>), involving a collaboration between the University of Verona and Universität Mannheim (Germany - local contact: Prof. Simone Paolo Ponzetto - <https://www.uni-mannheim.de/dws/people/professors/prof-dr-simone-paolo-ponzetto/>). The group researches and develops techniques for extracting information from manuals and textual content in robotic surgery, in particular for extracting procedural knowledge from descriptions of robotic-surgery interventions in domain manuals. Within the group’s activities, I co-supervised Marco Bombieri’s Ph.D. thesis with Prof. Fiorini (University of Verona).

since: 1 Jan 2020

- Collaboration with Professors Alessandro Sperduti and Lamberto Ballan (University of Padua - <http://www.math.unipd.it/~sperduti>, <http://www.lambertoballan.net/>) and Luciano Serafini (Fondazione Bruno Kessler, Trento - <https://dkm.fbk.eu/author/lucianoserafini/>). The research group investigates techniques for the automatic extraction and linking of knowledge from multimodal content (text and images).

since: 1 Jan 2019

- Collaboration with Prof. Dr. Md. Mark Musen (Stanford University, USA - <https://profiles.stanford.edu/mark-musen>). After winning an individual mobility grant from Fondazione Bruno Kessler, I spent three months (15 September 2013 - 15 December 2013) at the Stanford Center for Biomedical Informatics Research (Stanford University, USA), establishing a research collaboration with the Musen Lab (directed by Prof. Dr. Md. Mark Musen) on investigating and comparing collaboration dynamics in tools for collaborative ontology construction (WebProtege, MoKi).
since: 15 Sep 2013
- Collaboration with Prof. Piek Vossen (Vrije Universiteit Amsterdam, The Netherlands - <https://vossen.info/>). The collaboration originated in the NewsReader project (EU FP7 Strep Project, Grant 316404), which I managed for Fondazione Bruno Kessler. I established a scientific collaboration with Prof. Piek Vossen and the Computational Linguistics & Text Mining Lab (CLTL) that he directs at Vrije Universiteit (VU) Amsterdam (The Netherlands), investigating techniques for the automatic extraction of knowledge from textual resources so as to enable formalisation, querying, and automated reasoning over the extracted knowledge. Within this collaboration, Vrije Universiteit Amsterdam formally appointed me as co-promotor (co-supervisor) of Roxane Segers's Ph.D. thesis on event formalisation and the extraction of implicit information from natural-language texts.
since: 1 Jan 2013
- Participation in the activities of the W3C Ontology-Lexicon community group (OntoLex - <https://www.w3.org/community/ontolex/>). OntoLex is an international community group sponsored by the World Wide Web Consortium (W3C) that develops models for the ontological representation of lexical content and good practices for creating linguistic resources according to Linked Data principles.
since: 18 May 2012
- Collaboration with Prof. Leo Wanner (Universidad Pompeu Fabra, Barcelona, Spain - <https://www.icrea.cat/Web/ScientificStaff/leo-wanner-324>). The collaboration originated in the PESCaDO project (EU FP7 Strep Project, Grant 248594), which I managed for Fondazione Bruno Kessler. I established a scientific collaboration with Prof. Leo Wanner and the TALN group at Universidad Pompeu Fabra (Barcelona, Spain), investigating ontology-based automated-reasoning techniques for personalised decision support based on user profiles and environmental data (e.g., air quality and pollen concentration).
since: 1 Jan 2010
- Collaboration with Prof. Silvia Miksch (TU Wien, Austria - <https://www.cvast.tuwien.ac.at/team/silvia-miksch>). I collaborated with Prof. Silvia Miksch and her group at TU Wien, investigating collaborative techniques and tools for the formal modelling of clinical medical protocols in the ASBRU language.
since: 1 Jan 2008
- Collaboration with Prof. Stefanie Lindstaedt (Graz University of Technology & Know-Center, Austria - <https://scholar.google.com/citations?user=ZcWoNxgAAAAJ>). The collaboration originated in the EU APOSDLE project (EU FP6 IP Project, Grant 027023), in which I participated on behalf of Fondazione Bruno Kessler and coordinated activities on individual project tasks. I collaborated with Prof. Stefanie Lindstaedt and her group at TU Graz / Know-Center, investigating collaborative techniques and tools for ontology modelling.
since: 8 May 2007

3.3 Responsibility for studies and research commissioned by public or private institutions

- Automated analysis of responses to a questionnaire on inclusion in teaching using natural language processing tools
Commissioning institution: Edizioni Centro Studi Erickson S.p.A.
Contracted institution: University of Verona
Type: third-party research assignment.
Personal role: acquisition of the assignment, scientific responsibility, and coordination of the research

activities carried out by the University of Verona.

Activities: automated analysis of responses to the questionnaire on inclusion in teaching using natural language processing techniques and interpretation of the results.

Results and impact: the study results were publicly presented and received broad coverage in the national press and media; see § 4.3.2.

Assignment fee: €2,000, excluding VAT.

1 Oct 2025 - 30 Nov 2025

- ePlanning

Expert system for creating educational programmes for pupils with Special Educational Needs

Commissioning institution: Edizioni Centro Studi Erickson S.p.A.

Contracted institution: Fondazione Bruno Kessler (FBK)

Type: research assignment commissioned to FBK within the ePlanning project, funded by the Autonomous Province of Trento pursuant to Provincial Law 6/1999.

Personal role: contribution to drafting the project, management of the assignment for FBK, coordination of research and technological-development activities and reporting; responsibility for FBK's contribution to Implementation Objectives OR2, OR3 and OR4.

Activities: formalisation of competence profiles, learning objectives and educational activities; design of the semantic knowledge base; formalisation of inference rules; development and evaluation of the system for generating individualised educational plans.

Results and impact: the technological results of the assignment were incorporated into Edizioni Centro Studi Erickson's commercial SOFIA platform (<https://sofia.erickson.it/>).

Assignment fee: €114,394.50, excluding VAT.

1 Jan 2013 - 31 Dec 2014

3.4 Scientific responsibility, coordination and participation in research projects

For each project, my personal role and any scientific or coordination responsibility are reported; additional participation and contributions to project acquisition are included to complete the project profile.

- Inclusive Humanities

Prospettive di sviluppo nella ricerca e nella didattica delle lingue e letterature straniere

Programme: MUR, Departments of Excellence 2023–2027.

Institution: Department of Foreign Languages and Literatures, University of Verona.

Role: contribution to securing the funding and scientific responsibility for the “Informatics and Inclusion” research line. From 1 January to 31 December 2023 I was also scientific lead of the Work Package devoted to developing the departmental technological infrastructures.

Funding: €6,566,335 in total, of which €618,550 was allocated to technological infrastructures.

Web-site: <https://inclusivehumanities.eu/>

1 Jan 2023 - 31 Dec 2027

- NexusLinguarum (COST Action CA18209)

European network for Web-centred linguistic data science

Role: member of Working Groups WG1 and WG2, participating in the European network's activities on linguistic data, semantic technologies, and linguistic data science.

Web-site: <https://nexuslinguarum.eu/>

28 Oct 2019 - 27 Oct 2023

- Digital Humanities applied to foreign languages and literatures

Programme: MIUR, Departments of Excellence 2018–2022.

Institution: Department of Foreign Languages and Literatures, University of Verona.

Role: scientific lead (team leader) for the development of the departmental technological infrastructures envisaged by the Excellence Project.

Funding: €6,075,000 in total, of which €851,500 was allocated to technological infrastructures.

Web-site: <https://dh.dlss.univr.it/>

28 Dec 2018 - 31 Dec 2022

- NewsReader (EU FP7 STREP Project, Grant 316404)
Building structured event indexes of large volumes of financial and economic data for decision making
Institution: Fondazione Bruno Kessler (FBK).
Role: contribution to project acquisition; project management for FBK, coordination of research and technological-development activities, and reporting. Scientific lead of Work Package 6 “Knowledge Store”, comprising 32 person-months and involving three European partners. Participation in research and development activities in additional Work Packages.
FBK unit size: 13 people and 103 person-months.
Funding: €744,787 allocated to FBK, out of total project funding of €2,800,000.
Web-site: <https://cordis.europa.eu/project/id/316404>
1 Jan 2013 - 31 Dec 2015
- Organic.Lingua (EU CIP-ICT-PSP-2010-4, Grant 270999)
Demonstrating the potential of a multilingual Web portal for Sustainable Agricultural & Environmental Education
Institution: Fondazione Bruno Kessler (FBK).
Role: contribution to drafting the proposal and securing the funding for FBK.
Funding: €225,000 allocated to FBK.
Web-site: NO
1 Mar 2011 - 28 Feb 2014
- PESCaDO (EU FP7 STREP Project, Grant 248594)
Personalized Environmental Service Configuration and Delivery Orchestration
Institution: Fondazione Bruno Kessler (FBK).
Role: project management for FBK, coordination of research and technological-development activities, and reporting. Scientific lead of Work Package 5 “Reasoning and user-oriented decision support”, comprising 48.5 person-months and involving six European partners. Participation in research and development activities in additional Work Packages.
FBK unit size: 5 people and 70 person-months.
Funding: €505,648 allocated to FBK, out of total project funding of €2,785,300.
Results and impact: the project was selected among the 2013 CORDIS Top Stories and was presented in a television programme broadcast by RAI 3; see § 4.3.2.
Web-site: <https://cordis.europa.eu/project/id/248594>
1 Jan 2010 - 31 Dec 2012
- APOSDLE (EU FP6 Integrated Project, Grant 027023)
Advanced process-oriented self-directed learning environment
Institution: Fondazione Bruno Kessler (FBK).
Role: scientific lead of Task 7.3 “Standardization Activities”, comprising 21 person-months and involving eight European partners. Participation in research and development activities in additional Work Packages.
Web-site: <https://cordis.europa.eu/project/id/027023>
8 May 2007 - 28 Feb 2010

3.5 Direction and participation in scientific and editorial boards

- Associate Editor of Applied Intelligence (Springer Nature)
<https://link.springer.com/journal/10489/editorial-board>
since: 3 Jul 2026
- Member of the Editorial Board of Information (MDPI)
<https://www.mdpi.com/journal/information/editors>

since: 27 Jun 2025

- Member of the Editorial Board of Discover Artificial Intelligence (Springer Nature)
<https://link.springer.com/journal/44163/editorial-board>
since: 20 Dec 2024
- Member of the Editorial Board of Information Processing & Management (Elsevier)
2 Mar 2020 - 25 Jun 2025
- Guest editor of the Special Issue “LLMs for Equitable Education Systems” in Frontiers in Artificial Intelligence
<https://www.frontiersin.org/research-topics/77438/llms-for-equitable-education-systems>
since: 26 Jan 2026
- Guest editor of the Special Issue “The Role of Artificial Intelligence for Diversity, Equity, and Inclusion” in Information (MDPI)
https://www.mdpi.com/journal/information/special_issues/Y7H8YYZDTV
since: 18 Apr 2024
- Guest editor of the Special Issue “Applied Cognitive Computing: Challenges, Approaches, and Real-World Experiences” in Progress In Artificial Intelligence (Springer)
The selected articles were published in Volume 7, issue 4, December 2018 of the journal.
<https://link.springer.com/journal/13748/volumes-and-issues/7-4>
22 May 2017 - 27 Sep 2018
- Guest editor of the Special Issue “Knowledge and Language Processing” in Information Processing & Management (Elsevier)
The selected articles were published in Volume 57, Issue 6, November 2020 of the journal.
<https://www.sciencedirect.com/journal/information-processing-and-management/vol/57/issue/6>
5 Sep 2018 - 29 Jan 2020

3.6 Participation in boards of MUR-accredited Ph.D. programmes

Continuous participation, over 8 cycles since 2019, in the boards of MUR-accredited Ph.D. programmes is documented in § 2.4.1.

3.7 Research appointments and periods at foreign institutions

- Co-promotor of Roxane Segers’s Ph.D. thesis, Formalizing Events for Detecting Implicit Event Information in Natural Language Text, at Vrije Universiteit Amsterdam (The Netherlands), since 8 May 2018.
- Visiting Scholar at the Musen Lab, Stanford Center for Biomedical Informatics Research, Stanford University
Host: Prof. Dr. Md. Mark Musen
Research Topic: Investigation of collaboration dynamics in different ontology development environments (WebProtege, MoKi)
15 Sep 2013 - 15 Dec 2013
- Visiting Research Associate at the School of Electrical Engineering and Computer Science, University of Newcastle, NSW, Australia
Host: Prof. Pablo Moscato
Research Topic: Development of combinatorial optimization algorithms for computational biology
15 Jan 2005 - 15 Apr 2005

3.8 Awards and recognition for scientific activity

I have received a total of 5 awards and recognitions for my scientific activity.

- Distinguished Program Committee Member at the 27th International Joint Conference on Artificial Intelligence and the 23rd European Conference on Artificial Intelligence (IJCAI-ECAI 2018)
Info: <https://www.ijcai-18.org/distinguished-members/>
- Semantic Sentiment Analysis Award (Task 3 - Frame entities Identification) at the Semantic Web Evaluation of the 12th European Semantic Web Conference ESWC2015 (May 31-June 4, 2015 - Portoroz, Slovenia) for the contribution "Opinion frame extraction from news corpus" (Francesco Corcoglioniti, Alessio Palmero Aprosio, Marco Rospoche)
Certificate: <https://marcorospoche.com/files/awards/2015eswccha.pdf>
- Best Research Paper Award at the IEEE 18th International Enterprise Distributed Object Computing Conference EDOC2014 (September 1-5, 2014 - Ulm, Germany) for the contribution "The Role of Semantic Annotations in Business Process Modelling" (Chiara Di Francescomarino, Marco Rospoche, Chiara Ghidini, Andrea Valerio)
Certificate: <https://marcorospoche.com/files/awards/2014edoc.pdf>
- Runner-up Prize at the Ontology Competition of the 8th International Conference on Formal Ontology in Information Systems FOIS2014 (September 22-25, 2014 - Rio de Janeiro, Brasil) for the contribution "An ontology for personalized environmental decision support" (Marco Rospoche)
Certificate: <https://marcorospoche.com/files/awards/2014fois.pdf>
- Honorable Mention Award at the In-Use Track of the 7th International Semantic Web Conference ISWC2008 (October 26-30, 2008 - Karlsruhe, Germany) for the contribution "Deploying semantic web technologies for work integrated learning in industry. A comparison: SME vs. large sized company" (Conny Christl, Chiara Ghidini, Joanna Guss, Viktoria Pammer, Stefanie Lindstaedt, Marco Rospoche, Peter Scheir, Luciano Serafini)
Info: <https://marcorospoche.com/files/awards/2008iswc.pdf>

3.9 Professional research experience relevant to the disciplinary field

- Research Scientist at Fondazione Bruno Kessler (FBK), Trento, Italy (<https://www.fbk.eu>), in the "Data and Knowledge Management" research unit directed by Luciano Serafini (<https://dkm.fbk.eu/author/lucianoserafini/>). The research unit was characterised by numerous international collaborations, many of which I established and/or coordinated. During my 11 years in the unit, I scientifically coordinated activities on specific research topics, including Information Extraction and Semantic Technologies for Decision Support. In this context I contributed to substantial scientific output, documented in the complete publication list, and to the development and public release of numerous resources (tools and ontologies): PSL4EA, JPARK, KE4IR, PIKES, KnowledgeStore, RDFpro, MoKi, TeX-OWL, PreMOn, The Event and Situation Ontology (ESO), The PESCaDO Ontology, and The BPMN Ontology. I contributed to the acquisition of several research projects for the unit (NewsReader, Organic.Lingua). I participated, also in coordination roles, in several European research projects for the unit (NewsReader, PESCaDO, APOSDLE) and in a research assignment commissioned by Edizioni Centro Studi Erickson S.p.A. (ePlanning project). I supervised and co-supervised several Ph.D. theses (Matteo Lorenzini: 2017 - 2022; Giulio Petrucci: 2013 - 2018; Francesco Corcoglioniti: 2012 - 2016), Master's theses (Yiqing Liang: 2017; Matteo Matasconi: 2014; Musawar Saeed: 2009; Md Kamrul Hasan: 2009; Nahid E Mahbub: 2009; Rakebul Hasan: 2009), a Bachelor's thesis (Marco Spanò: 2018), a post-graduate research fellowship (Gianluca Maguolo: 2018), and internships (Yiqing Liang: 2017; Alessio Scussel: 2016; Gianluca Apriceno: 2015; Enrico Magnago: 2015; Md Kamrul Hasan: 2009; Nahid E Mahbub: 2009).
8 May 2007 - 27 Dec 2018

3.10 Further scientific and institutional activities

3.10.1 Scientific supervision of research fellowships

- Scientific supervisor of the research fellowship for the programme “Analysis of the limits and potential of Artificial-Intelligence-based language tools for inclusion” (AdR4308/23, University of Verona, INF/01).
Research fellow: Marco Bombieri
1 Feb 2024 - 30 Sep 2025

3.10.2 Reviewing for scientific journals

I have carried out peer review for 15 scientific journals, listed below:

- ACM Transactions on Intelligent Systems and Technology (Association for Computing Machinery)
- Applied Ontology (IOS Press)
- Artificial Intelligence (Elsevier)
- IEEE Internet Computing (IEEE Computer Society)
- Information Processing & Management (Elsevier)
- Information Systems (Elsevier)
- International Journal of Semantic Computing (World Scientific)
- International Journal of Software Engineering and Knowledge Engineering (World Scientific)
- Journal of Data Semantics (Springer Nature)
- Journal of Information Science (SAGE Publications)
- Journal of Web Semantics (Elsevier)
- Natural Language Engineering (Cambridge University Press)
- PeerJ Computer Science (PeerJ)
- Semantic Web Journal (IOS Press)
- Umanistica Digitale (FICLIT – University of Bologna / AIUCD)

3.10.3 Scientific evaluation and consulting assignments

- Member of the Scientific Committee of the Italian Observatory on Artificial Intelligence and Digital Humanities of the Association for Digital Humanities and Digital Culture (AIUCD).
since: 23 Dec 2025
- Member of the evaluation committee for project proposals on “Integrative AI for Story Telling” for Fondazione Bruno Kessler, Spoke 2 “Integrative AI” of the Future Artificial Intelligence programme, Next Generation EU, PNRR MUR M4C2, Investment 1.3 – Extended Partnerships.
Year: 2024
- Reviewer of proposals for the National Centres of Competence in Research (NCCRs) of the Swiss National Science Foundation (SNSF)
Year: 2024
- Reviewer of project proposals for the Netherlands Organisation for Scientific Research (NWO)
Year: 2020
- Scientific consulting on “Artificial Intelligence in the Digital Humanities” for Compagnia di San Paolo.
Year: 2019

3.10.4 Institutional appointments relevant to research

- Member of the Research Committee of the Department of Foreign Languages and Literatures, University of Verona.
since: 15 Dec 2021
- Coordination of the technical IT staff of the Department of Foreign Languages and Literatures for the development and management of departmental digital platforms.
28 Dec 2018 - 31 Dec 2023

3.10.5 Membership of selection and recruitment committees

I have served on selection and recruitment committees for a total of 22 procedures.

- Selection procedure for an associate professor, competition sector 01/B1, scientific-disciplinary sector INF/01: 2023pa18002, University of Verona.
- Public selection for a fixed-term type-A researcher, competition sector 01/B1, scientific-disciplinary sector INF/01: PON_INN_RTDA_2021_35, University of Naples Federico II.
- Public selection for a researcher at a research centre: PNRR_IDA_FAIR_2023, Fondazione Bruno Kessler.
- Selection for a fixed-term position with a prospect of permanent employment as a third-level technologist: IDA_T3_H&WB_2025, Fondazione Bruno Kessler.
- Committees for research fellowships at the University of Verona: AdR4308/23, AdR4315/23, AdR3792/21, AdR3634/20, AdR3607/20, and AdR3339/19.
- Committees for collaboration contracts at the University of Verona: 7/2022, 12/2021, 6/2020, 5/2020 and 4/2020.
- Committees for the selection of technical IT staff at the University of Verona: 2025cta005, 2024fpta004, 2023cta009, 2022ctatd002, 2020ctatd005, 2019ctatd006, and 2019ctatd001.

4 Knowledge valorisation

The following subsections describe technology-transfer activities, the production and management of open resources, dissemination, and the application of research results in social and professional contexts. These activities are based on the development and use of computational methods and tools: knowledge representation, ontologies and automated reasoning in technology transfer; software, datasets, language models, linguistic resources, ontologies and digital infrastructures in the production and management of public goods; and Artificial Intelligence, natural language processing and digital technologies in applications to health, inclusion, accessibility and environmental information, as well as public-engagement initiatives.

Activities contributing to more than one area are described in their principal section and cross-referenced internally.

4.1 Results in technology transfer

- *ePlanning – Expert system for creating educational programmes for pupils with Special Educational Needs* (2013–2014).

The main technology-transfer result was the integration of the technology developed in the project into Edizioni Centro Studi Erickson's commercial SOFIA software, designed for personalised and inclusive educational planning. The technological contribution concerned the formalisation of competence profiles, learning objectives and educational activities, together with the development of the semantic knowledge base and inference rules for generating individualised educational plans.

Resulting product: SOFIA – <https://sofia.erickson.it/>

Personal role and assignment details: see the complete record in § 3.3.

4.2 Results in the production and management of public goods

I have contributed to the design, development and public release of datasets, software, language models, ontologies and linguistic resources intended for experimental validation and reuse by the scientific community. The most recent resources particularly document a line of research on the empirical study of large language models, with particular attention to their reliability, biases introduced by contextual and demographic information, and fairness evaluation in different application scenarios. As director of the DAIH centre, I also contribute to the development and management of the digital infrastructures of the Department of Foreign Languages and Literatures, including platforms for open-access journals, corpora, digital archives and resources for digital scholarship; see § 3.2.

4.2.1 Datasets

The following 14 datasets were developed within the research activities documented in this CV.

- **Contextual Bias in LLM Manuscript Evaluation**
The repository contains the data, code and experimental materials used to study the influence of author metadata on the evaluation of scientific articles by large language models. It includes code to retrieve article texts from arXiv, query the different LLMs and perform the statistical analyses, together with the resulting outputs. The prompts and questionnaire used in the experiment, the settings for manipulating the corresponding author, the lists of names and institutions used, and the arXiv identifiers of the articles included in the study are also provided.
Web-site: <https://github.com/rospoche/contextual-bias-in-llm-manuscript-evaluation>
- **Contextual Bias in LLM Proposal Evaluation**
The repository contains data, code and experimental results used to analyse the sensitivity of large language models to contextual information when evaluating research proposals according to a scheme inspired by ERC evaluation. It includes the synthetic proposals used as experimental stimuli, the raw scores produced by the models with different prompt templates, code for response generation, preprocessing and statistical analyses, as well as processed results including aggregate, per-model and

per-prompt analyses, significance tests and robustness analyses.

Web-site: <https://github.com/rospoche/LLMs-contextual-bias-in-proposal-evaluation>

- Authorship Bias in Large Language Models

The repository contains data, code and results from the study of the influence of authorship attribution on the evaluation of literary texts by large language models. The experiment considers three Italian short stories evaluated by four LLMs under three different authorship-attribution conditions (human, artificial intelligence, and human–AI collaboration), for a total of 3,600 completed questionnaires. The complete questionnaires, prompts, texts used in the experiment, code for querying the models and performing the statistical analyses, as well as tables, plots and test results, are made available.

Web-site: <https://github.com/daih-univr/authorship-bias-in-LLMs>

- Census-like survey responses generated by LLM-impersonated profiles

The dataset comprises 6,400 demographic surveys generated by four widely used large language models (OpenAI GPT-4o-mini, Google Gemini 2.5 Flash, Google Gemma 3 27B, and AllenAI OLMo 2 32B). Each model was instructed to impersonate different user profiles, including a generic US resident, an Asian person, an African American person, a white person, a person with a disability, a man, and a woman. The repository also includes the code used to generate these profiles and the results of statistical analyses comparing the collected data across models and demographic profiles and against real reference data.

Web-site: <https://github.com/rospoche/impersonification-bias>

- LLM Fidelity as Survey Respondents

The dataset contains synthetic responses generated by five Large Language Models to an Italian questionnaire on inclusion in education, consisting of open-ended questions, single-word associations and Likert-scale items. For each of the 831 anonymised profiles observed in the human sample, each model generated one questionnaire completion, for a total of 4,155 synthetic completions. The resource was built to study the fidelity of LLMs as synthetic survey respondents by comparing the distributions of generated responses with human responses using semantic, affective, lexical-diversity and ordinal-distribution measures. The repository provides the model-generated responses and the materials required to replicate the analyses; human responses are not publicly distributed because of confidentiality and data-protection constraints.

Web-site: <https://github.com/daih-univr/LLM-fidelity-as-survey-respondents>

- Bloomberg Terminal Dataset for Target-Based Financial Sentiment Analysis

The dataset comprises 1,334 financial-news articles collected through Bloomberg Terminal (from 4 September 2023 to 30 January 2024) about four listed companies (Alphabet, Amazon, Netflix and Nvidia). Each article contains metadata such as publication date/time, a unique ID, the target company and the URL. Three annotators manually labelled both the target entity and the financial sentiment towards that target (-1 = Negative, 0 = Neutral, +1 = Positive). The dataset supports performance comparisons among generative models (LLMs), transformer-based discriminative models and lexicon-based methods for target-based financial sentiment analysis.

Web-site: https://github.com/iftikharm895/Target-Based_Sentiment_Analysis_in_Financial_News

- PRIPiT: An Annotated Dataset for Propaganda Detection through Ideology, Power Relations and Persuasion in Politicians' War-related Tweets

The dataset consists of 1,000 English-language tweets posted by Russian and Ukrainian politicians during the ongoing war. The tweets were manually annotated with 45 distinct labels, grouped into categories such as genre, ideologies, power relations and persuasion. The dataset was developed with two purposes: to analyse propaganda by integrating research from Critical Discourse Analysis (CDA), and to support research on multi-label classification for computational propaganda detection. It is intended for researchers, NLP practitioners and educators interested in detailed propaganda detection in social media, with the aim of contributing to more transparent, fair and effective models for the analysis of short-text digital media.

Web-site: <https://zenodo.org/records/16036029>

- **Representation of Disability in Large Language Models**
The dataset includes anonymised Reddit posts written by people with disabilities and synthetic posts generated by different language models (LLMs) simulating the perspective of people with disabilities. Each post is automatically annotated with predicted labels for sentiment, emotions and expressions associated with depression. The dataset was created to support a study comparing how people with disabilities express their emotions online with how LLMs represent those emotions when writing from the same perspective.
Web-site: <https://github.com/marcobombieri/LLM-disability-representation>
- **LLM Jailbreaking**
The dataset supports a study of the effects of a simple and generalisable jailbreak attack obtained by asking language models to 'think in reverse', that is, to reason in a way opposite to their usual behaviour. It contains the jailbroken responses generated by three LLMs (ChatGPT, Gemini and Claude), together with the prompts used and manual annotations of response quality: A (incorrect or toxic), B (correct and non-toxic but incoherent or not very meaningful), and C (correct).
Web-site: <https://github.com/marcobombieri/LLM-jailbreaking-attack>
- **Do LLMs Dream of Ontologies?**
The repository provides data and code supporting the analysis of how language models handle ontological concepts. It includes Dataset (GO and UBERON with predictions from Pythia-12B, GPT-3.5 and GPT-4), Performance_analysis (scripts to compute web occurrences, correlate performance with concept frequency, and generate plots and prompts), and Prompt_invariance (code and results for testing the robustness of predictions under different prompts).
Web-site: <https://github.com/marcobombieri/do-LLM-dream-of-ontologies>
- **Explicit Lyrics Datasets and Detectors**
The resource includes two annotated datasets, one for English (807K songs) and one for Italian (37K songs), built from content available on Spotify and LyricWiki to train and evaluate automatic tools for identifying songs whose lyrics contain content potentially offensive or inappropriate for children. An additional dataset of about 4K songs was manually annotated with more detailed information on the nature of the explicit content, indicating why the lyrics are marked as such, for example strong language or sexual references. The resource also includes a suite of classifiers, including Logistic Regression, FastText, 1D-CNN and BERT, for the automatic identification of explicit lyrics, together with Python code for training and evaluation and pre-trained ready-to-use models for English and Italian. For English, resources and tools are also available for a more fine-grained analysis of the nature of explicit content.
Web-site: <https://github.com/rospoche/explicit-lyrics-detection/>
- **Surgical Procedural Knowledge Sentences (SPKS)**
SPKS is a textual dataset for the surgical-robotics domain consisting of 1,958 sentences (37,022 words and 3,999 unique words) manually annotated as procedural or non-procedural by an expert annotator.
Web-site: <https://gitlab.com/altairLab/spks-dataset/>
- **Visual-Textual-Knowledge Entity Linking (VTKEL)**
VTKEL, derived from the Flickr30k-Entities dataset, consists of documents composed of an image and the corresponding captions. The visual and textual mentions in each image and caption are annotated and aligned with entities typed according to YAGO classes.
Web-site: <https://doi.org/10.6084/m9.figshare.7882781.v6>
- **Annotated dataset to assess the accuracy of the textual description of cultural heritage records**
The dataset contains more than 100,000 textual descriptions of cultural objects in Cultura Italia, Italy's national cultural aggregator. Each description is labelled HIGH or LOW quality according to its adherence to the cataloguing guidelines provided by the Istituto Centrale per il Catalogo e la Documentazione (ICCD).
Web-site: <https://doi.org/10.6084/m9.figshare.13359104.v1>

4.2.2 Software and tools

The following 8 software tools were developed within the research activities documented in this CV.

- **PSL4EA: Probabilistic Soft Logic for Entity Annotation**
An approach based on Probabilistic Soft Logic that exploits background ontological knowledge to jointly revise and improve the coherence of NLP entity annotations, in particular Named Entity Recognition and Classification (NERC) and Entity Linking (EL). The resource also provides the model parameters, the produced annotations and the material required to reproduce the experimental evaluation on benchmark datasets.
Web-site: <https://pikes.fbk.eu/psl4ea.html>
Video: http://videlectures.net/iswc2018_rosponcher_ontology_driven_soft/
- **JPark: Joint Posterior Revision of NLP Annotations via Ontological Knowledge**
A probabilistic model for the joint revision of NLP entity annotations that combines evidence from automatic annotators with background ontological knowledge to improve their coherence. The resource includes the software implementation, models trained using different ontological knowledge bases (including YAGO, DBpedia Ontology and Wikidata), experimental annotations, and tools and results for the evaluation of Named Entity Recognition and Classification and Entity Linking.
Web-site: <https://pikes.fbk.eu/jpark.html>
- **KE4IR: Knowledge Extraction for Information Retrieval**
An approach, implemented on top of PIKES and Apache Lucene, for improving document retrieval by combining the textual content of documents and queries with automatically extracted semantic information enriched through Linked Data. The approach represents documents and queries through different semantic layers concerning entities, ontological types, temporal information and semantic frames, integrating them with textual terms in the ranking process. The code of the experimental infrastructure, evaluation scripts, results and auxiliary data are publicly available, subject to the access and redistribution constraints of the document collections used.
Web-site: <https://pikes.fbk.eu/ke4ir.html>
Video: http://videlectures.net/eswc2016_rosponcher_information_retrieval/
- **PIKES: A Suite for Extracting Knowledge from Text**
A Java suite for automatically extracting structured knowledge from natural-language text. PIKES integrates, in an extensible and configurable pipeline, different linguistic analyses including tokenisation, morphosyntactic and dependency analysis, word-sense disambiguation, entity recognition and linking, coreference resolution, temporal-expression recognition and Semantic Role Labeling. The annotations are integrated and reinterpreted to produce an interconnected three-layer semantic representation exposed as an RDF Linked-Data Knowledge Graph, while maintaining the connection between extracted instances and their textual mentions.
Web-site: <https://pikes.fbk.eu/>
Video: <https://www.youtube.com/embed/D0mcnUKc3sg>
- **KnowledgeStore: Scalable storage for text and RDF data**
A scalable, fault-tolerant infrastructure based on Semantic Web technologies, designed to jointly store, integrate, manage, retrieve and query unstructured content and the RDF data that describe it. It supports bulk access, contextual inference and SPARQL querying, providing a shared data space for integrating documents, linguistic annotations and structured knowledge. Source code, precompiled libraries, data models and a Docker configuration for system deployment are publicly distributed.
Web-site: <https://knowledgestore.fbk.eu>
Video: <https://www.youtube.com/embed/YVOQalJLta4>
- **RDFpro: An Extensible Tool for Building Stream-Oriented RDF Processing Pipelines**
A Java tool, usable both from the command line and as a library, for building efficient streaming-processing pipelines for RDF data and Named Graphs. RDFpro was designed to support Linked Data integration operations even on datasets containing billions of triples and provides functionality for

filtering and transformation, inference through SPARQL-like rules (including RDFS and OWL2RL), owl:sameAs management, deduplication, TBox and dataset statistics, and interaction with SPARQL endpoints. The software is released into the public domain under the CC0 licence.

Web-site: <https://rdfpro.fbk.eu>

Video: <https://www.youtube.com/embed/Vd2FCVRL8fk>

- **MoKi: The Modelling Wiki**

A collaborative tool based on Semantic Wiki technology for the integrated modelling of ontologies and business processes. MoKi is designed to allow users with different expertise, from domain experts to knowledge engineers, to contribute jointly to the construction of complex models, using knowledge descriptions at different levels of formality (informal, semi-formal and formal) while keeping the different components of the model integrated.

Web-site: <https://dkm.fbk.eu/technologies/tools-and-environments/moki/>

- **TeX-OWL: A LaTeX-Style Syntax for Authoring OWL 2 Ontologies**

A textual syntax inspired by LaTeX for authoring OWL 2 ontologies, designed to be compact, easy to read and write, and less verbose than traditional OWL syntaxes. TeX-OWL covers the full set of OWL 2 constructs and includes a Java parser and writer based on OWLAPI that enables bidirectional conversion between TeX-OWL and the other OWL 2 syntaxes.

Web-site: <https://github.com/dkmfbk/TexOwl>

4.2.3 Language models

The following 1 language model was developed within the research activities documented in this CV.

- **SurgicBERTa**

A pre-trained language model specific for the English surgical language, i.e., the language used in the surgical domain. SurgicBERTa has been obtained from RoBERTa through continued pre-training with the Masked-Language-Modeling objective on 300k sentences taken from English surgical books and papers, for a total of 7 million words. SurgicBERTa is the first pre-trained language model made available for the surgical domain

Web-site: <https://huggingface.co/marcobombieri/surgicberta>

4.2.4 Ontologies

The following 4 ontologies were developed within the research activities documented in this CV.

- **PreMON: Predicate Model for Ontologies**

A linguistic Linked Data resource representing predicate models such as PropBank, NomBank, VerbNet and FrameNet

Web-site: <https://premon.fbk.eu/>

- **The Event and Implied Situation Ontology (ESO)**

A resource which formalizes the pre and post conditions of events and the roles of the entities affected by an event

Web-site: <https://github.com/newsreader/eso/>

- **The PESCaDO Ontology**

A modular OWL ontology capable of representing all the content processed and produced by a system providing user-tailored environmental decision support

Web-site: <https://marcorospoher.com/backup-resources/pescado/>

- **The BPMN Ontology**

A formalization in OWL-DL of the structural components of the Business Process Modelling Notation (BPMN), based on the OMG BPMN specifications Version 1.1 [January 2008]

Web-site: <https://marcorospoher.com/backup-resources/bpmn/>

4.2.5 Linguistic resources

The following 1 linguistic resource was developed within the research activities documented in this CV.

- **Robotic Surgery Propositional Bank (RSPB)**
The Robotic-Surgery Propositional Bank is the first robotic-surgery procedural framebank and corpus, annotated with PropBank-style semantic labels. Starting from the original PropBank framebank, we enriched it by adding new lemmas, frames and semantic roles required to cover missing information in general English but needed in procedural surgical language, releasing the Robotic-Surgery Procedural Framebank (RSPF). We then collected from robotic-surgery textbooks as-is sentences for a total of 32,448 tokens, and we annotated them with RSPF labels. We so obtained and publicly released the first annotated corpus of the robotic-surgical domain that can be used to foster further research on language understanding and procedural entities and relations extraction from clinical and surgical scientific literature
Web-site: <https://gitlab.com/altairLab/robotic-surgery-propositional-bank/>

4.2.6 Digital infrastructures and Open Science platforms

Within the Departments of Excellence projects of the Department of Foreign Languages and Literatures, I held scientific responsibility for the development of departmental technological infrastructures (Digital Humanities: 2018–2022 and Inclusive Humanities: 2023). Resources allocated to technological infrastructures amounted to €851,500 and €618,550 respectively. From 28 December 2018 to 31 December 2023 I also coordinated the Department's technical IT staff for the development and management of digital platforms.

4.3 Results in public engagement

4.3.1 Outreach and public-engagement initiatives

The following 5 outreach and public-engagement initiatives were addressed to non-specialist audiences.

- **Inclusioni podcast.** Outreach interview in episode 24, “Inside DAIH: AI, inclusion and Digital Humanities”, presenting DAIH activities and applications of Artificial Intelligence to inclusion and Digital Humanities to a non-specialist audience.
Web-site: <https://open.spotify.com/episode/3TvGSUUtSLurrc8i8IGUhv>
10 Mar 2026
- **Participation as lecturer in the public “DiLLS – Open Lectures 2026” initiative** of the Department of Foreign Languages and Literatures, University of Verona, aimed at upper-secondary-school students and designed to provide direct experience of university teaching content and methods.
Web-site: <https://www.dlls.univr.it/?ent=iniziativa&id=14911&lang=it>
2 Mar 2026
- **Co-organization of the interdisciplinary public event “The ChatGPT case – Between development prospects and AI regulation: a multidisciplinary approach”**, promoted by five University of Verona departments to discuss the legal, technical, ethical and linguistic implications of generative AI with the public. I also delivered the outreach talk “ChatGPT: avvertenze per l'uso”.
Web-site: <https://www.dlls.univr.it/?ent=iniziativa&id=11252>
21 Jun 2023
- **Participation as speaker in the public meeting “Beni comuni digitali: una risorsa per il territorio, le istituzioni e i cittadini di oggi e domani”**, organized by the Municipality of Riva del Garda and Fondazione Bruno Kessler. I delivered the outreach talk “Dati e Ricerca”, illustrating the role of data in knowledge production and the social and civic impact of open data in terms of transparency, knowledge of the territory and reuse of public information.
Slides: https://marcorospoher.com/files/slides/2015dati_slides.pdf
18 Mar 2015

- Participation as activity contact at the 2012 European Researchers' Night in Trento, a science-outreach initiative for the general public. The event included a public demonstration of PESCaDO (Personalized Environmental Service Configuration and Delivery Orchestration), developed in the FP7 project to provide personalized decision support by integrating environmental data such as air quality, pollen and weather information. The demonstration illustrated use by both individual users and institutional actors responsible for environmental management and monitoring.

28 Sep 2012

4.3.2 Public dissemination and media coverage

- *Automated analysis of responses to a questionnaire on inclusion in education using natural-language-processing tools (2025)*. As scientific lead of the study conducted by the University of Verona DAIH centre for Edizioni Centro Studi Erickson, I coordinated the computing-related research, analysis and interpretation of results. Their public presentation generated broad national press and media coverage, documented by the following items.
 - UniVR Magazine. *Le voci dell'inclusione*
<https://www.univrmagazine.it/2025/12/02/le-voci-dellinclusione/>
 2 Dec 2025
 - La Stampa. *Le voci dell'inclusione: esperienze a confronto*
https://www.lastampa.it/speciale/scienza/galassiamente/2025/11/18/news/le_voci_dell_inclusione_esperienze_a_confronto-15400898/
 18 Nov 2025
 - Superando. *Arrivano forti le voci di 3.000 partecipanti al Congresso di Rimini sulla "Qualità dell'inclusione scolastica e sociale"*
<https://superando.it/2025/11/18/arrivano-forti-le-voci-di-3-000-partecipanti-al-congresso-di-rimini-sulla-q>
 18 Nov 2025
 - Radio Rai 3. *Fahrenheit*
<https://www.raiplaysound.it/audio/2025/11/Fahrenheit-del-17112025-e4fedf68-2c3e-45f8-9d89-296490ae6.html?ts=5390>
 17 Nov 2025
 - Orizzonte Scuola. *Allarme Inclusione, report Erickson: 1 docente su 4 (27,1%) è favorevole a classi speciali, un balzo shock del 10,1% in un solo anno*
<https://www.orizzontescuola.it/allarme-inclusione-report-erickson-1-docente-su-4-271-e-favorevole-a-classi>
 15 Nov 2025
 - La Tecnica della Scuola. *Inclusione e disabilità: è allarme rosso*
<https://www.tecnicadellascuola.it/inclusione-e-disabilita-e-allarme-rosso>
 15 Nov 2025
 - Rimini Today. *Il 27% degli insegnanti punta al ritorno delle classi differenziali. 'Non a Rimini, qui un approccio differente'*
<https://www.riminitoday.it/cronaca/insegnanti-punta-ritorno-classi-differenziali-rimini-approccio-different.html>
 14 Nov 2025
 - Avvenire. *Sos inclusione: un prof su tre vorrebbe classi speciali per gli studenti disabili*
<https://www.avvenire.it/attualita/sos-inclusione-un-prof-su-tre-vorrebbe-classi-speciali-per-gli-studenti-dis-100898>
 14 Nov 2025
 - Vita. *Le classi speciali? Favorevole più di un insegnante su quattro*
<https://www.vita.it/le-classi-speciali-favorevole-piu-di-un-insegnante-su-quattro/>
 14 Nov 2025
 - Domani. *L'asset essenziale per l'inclusione scolastica sono le alleanze educative*
<https://www.editorialedomani.it/idee/commenti/inclusione-scolastica-alleanze-educative-scuola-disabilita-s>

14 Nov 2025

- Il Fatto Quotidiano. *Inclusione, cresce il numero di insegnanti favorevoli alle classi speciali*
<https://www.ilfattoquotidiano.it/2025/11/14/inclusione-scolastica-classi-speciali-disabilita-news/8194486/>

14 Nov 2025

- Informare un'H. *Più di un insegnante su quattro vorrebbe classi e scuole speciali: un dato su cui riflettere*
<https://informareunh.it/piu-di-un-insegnante-su-quattro-vorrebbe-classi-e-scuole-speciali-un-dato-su-cui-ri>

7 Nov 2025

- SuperAbile (Inail). *Qualità dell'inclusione scolastica e sociale al centro della tre giorni del convegno Erickson*
<https://www.superabile.it/portale/it/storie-eventi-e-notizie/eventi-disabilita/dettaglio-evento.2025.11.convegno-erickson-inclusione-scolastica-sociale.html>

6 Nov 2025

- Sesto Potere. *Scuola, indagine Erickson: sí alle classi speciali per 1 insegnante su 4*
<https://sestopotere.com/scuola-indagine-erickson-si-alle-classi-speciali-per-1-insegnante-su-4/>

5 Nov 2025

- *Digital Humanities and the AIUCD 2025 conference*. As director of the DAIH centre and General Chair of the 14th conference of the Italian Association for Digital Humanities and Digital Culture, I contributed to public communication of the initiative and its scientific themes. The conference and the role of Digital Humanities received the following coverage in the national press.

- la Repubblica. *Le digital humanities raccontano il futuro*
<https://www.aiucd.it/le-digital-humanities-raccontano-il-futuro-aiucd-su-la-repubblica/>

18 Jun 2025

- *Inclusive Humanities Department of Excellence project of the University of Verona Department of Foreign Languages and Literatures (2023–2027)*. As director of the DAIH centre and scientific lead of the Informatics and Inclusion research line, I took part in the public presentation of the role of Artificial Intelligence and of the centre within the project. The initiative received coverage from local broadcasters and news outlets.

- TeleArena. *TG Giorno*
https://media.telearena.it/media/videoupload/2023/07/20230719102958_tg-giorno_1.mp4

19 Jul 2023

- Telepace. *Telepace News*
<https://www.youtube.com/watch?v=IUJRzK3AXCU&t=501s>

18 Jul 2023

- l'Arena. *Lingue e letterature straniere è «dipartimento di eccellenza»: finanziato il progetto tra inclusività e intelligenze artificiali*
<https://www.larena.it/territorio-veronese/citta/lingue-e-letterature-straniere-e-dipartimento-di-eccellenza-f>
10183278

18 Jul 2023

- l'Arena. *Marco Rospocher, docente di informatica del Dipartimento di Lingue e Letteratura straniera*
<https://www.larena.it/media/video/marco-rospocher-docente-di-informatica-del-dipartimento-di-lingue-e-l>
10182604

18 Jul 2023

- la Cronaca di Verona. *Lingue e letterature: 6,5 milioni dal Mur*
<https://www.cronacadiverona.com/lingue-e-letterature-65-milioni-dal-mur/>

20 Jul 2023

- *Public presentation of results from the European FP7 PESCaDO project (2010–2012)*. As scientific lead of Work Package 5, Reasoning and user-oriented decision support, I contributed to development

and dissemination of the environmental-data-based decision-support system. The project was selected among the 2013 CORDIS Top Stories and featured in the following national television programme.

– Rai 3. *Tapis Roulant*

<https://www.rai.it/dl/RaiTV/programmi/media/ContentItem-328573fd-d2e7-4f12-a300-4c64763a4f3f.html>

28 Apr 2013

4.4 Results in life sciences and health

- *Linguistic resources and models for robotic surgery.* Publicly available results include the Surgical Procedural Knowledge Sentences (SPKS) dataset, the SurgicBERTa language model and the Robotic Surgery Propositional Bank (RSPB), described respectively in § 4.2.1, § 4.2.3 and § 4.2.5. The resources were developed within the interdisciplinary and international Information Extraction for Robotic Surgery research group, which I established and direct and which involves the University of Verona and Universität Mannheim. The collaboration is described in § 3.2; the related scientific products are listed in § 5.2.
- *Formal modelling of clinical protocols.* Within the scientific collaboration with Prof. Silvia Miksch and her group at TU Wien, I contributed to the development of collaborative techniques and tools for modelling clinical protocols. Results include CliP-MoKi, a collaborative tool for encoding protocols in the ASBRU language, and Semantic MediaWiki-based modelling developed in the Oncocure application case. The collaboration is described in § 3.2; the related scientific products are listed in § 5.2.

4.5 Results in environmental sustainability, inclusion and reducing inequalities

4.5.1 Inclusion and reducing inequalities

- *Digital Arena for Inclusive Humanities (DAIH) and the Inclusive Humanities project.* Since 15 February 2023 I have directed the interdisciplinary DAIH research centre; within the MUR Departments of Excellence 2023–2027 project I contributed to securing the funding and I am scientific lead of the Informatics and Inclusion research line. The centre and research line provide the organisational framework within which inclusive digital resources, Artificial Intelligence methods for the humanities, and interventions for digital accessibility and reducing disparities in access to knowledge are developed. Some of the results described below fall within this framework. For these roles, see § 3.2 and § 3.4.
- *Open resources for studying representations and bias in language models.* Results include the Representation of Disability in Large Language Models dataset, devoted to comparing the online expression of emotions by people with disabilities with their representation by LLMs, and Census-like survey responses generated by LLM-impersonated profiles, which enables analysis of differences and bias in responses generated while assuming demographic profiles relating, among other things, to disability, gender and racial/ethnic identity. Both resources are described in § 4.2.1. The results are connected to the research fellowship Analysis of the limitations and potential of Artificial-Intelligence-based language tools for inclusion (AdR4308/23, 1 Feb 2024–30 Sep 2025, INF/01), for which I was scientific supervisor.
- *Accessibility of digital teaching materials.* I contributed to a case study on the accessibility of digital teaching materials in a university context, whose results were published in the MoodleMoot Italia 2023 proceedings and presented both at MoodleMoot Italia 2023 and at the DAIDH 2024 conference; the related scientific product is listed in § 5.2. This activity is complemented by training initiatives on digital-document accessibility, documented in § 2.1.3 and § 2.1.4, and by editorial activities on Artificial Intelligence for diversity, equity and inclusion and for the promotion of equitable educational systems, described in § 3.5.

- *Automated analysis of responses to a questionnaire on inclusion in education using natural-language-processing tools.* I secured the assignment awarded by Edizioni Centro Studi Erickson S.p.A. to the University of Verona and assumed scientific responsibility and coordination of the research activities, cf. § 3.3. The study applied natural-language-processing techniques to the analysis of questionnaire responses and interpretation of the results. These were publicly presented and received broad coverage in the national press and media, cf. § 4.3.2.
- *Personalised educational planning for pupils with Special Educational Needs.* The technology developed in the ePlanning project was integrated into SOFIA, Edizioni Centro Studi Erickson's platform for personalised and inclusive educational planning. The technology-transfer result is described in § 4.1.

4.5.2 Sustainability and environmental decision support

- *PESCaDO – Personalized Environmental Service Configuration and Delivery Orchestration (EU FP7 STREP, Grant 248594; 2010–2012).* I managed the project for FBK, coordinating research, technological development and reporting, and served as scientific lead of Work Package 5, Reasoning and user-oriented decision support, cf. § 3.4. Results include automated-reasoning methods, a personalised decision-support system based on environmental data including air quality and pollen concentration, and the PESCaDO Ontology, described in § 4.2.4. Public dissemination of the results is documented in § 4.3.2.

5 Scientific publications

5.1 Volume, intensity and continuity of scientific production

The complete list comprises 137 outputs: 40 journal articles, 6 book chapters, 57 conference-proceedings contributions, 21 workshop-proceedings contributions, and 13 edited works or editorial contributions. The publication record covers 2006–2026 and includes contributions in the most recent years, reflecting the evolution of my research from knowledge representation and the Semantic Web towards Natural Language Processing, Machine Learning and Large Language Models.

As of October 16, 2026, the main overall bibliometric indicators are:

- Google Scholar
 - Citations: 2621
 - H-index: 27
 - i10-Index: 67
- Scopus
 - Citations: 1487
 - H-index: 18

5.2 Complete list of publications

5.2.1 Journal articles (40)

- Marco Bombieri, Simone Paolo Ponzetto and **Marco Rospocher**. Shiny Stories, Hidden Struggles: Investigating the Representation of Disability Through the Lens of LLMs. *ACM Trans. Intell. Syst. Technol.*. Association for Computing Machinery. ISSN: 2157-6904 (To appear)
[doi:10.1145/3806202]
- Marco Bombieri, Paolo Fiorini, Simone Paolo Ponzetto and **Marco Rospocher**. Do LLMs Dream of Ontologies?. *ACM Trans. Intell. Syst. Technol.*, vol. 17, no. 6, article 130. Association for Computing Machinery (ACM). ISSN: 2157-6904 (2026)
[doi:10.1145/3725852]
- Sofia Raglio, Federico Miriani, Manuel Focareta, Simone Rebora, **Marco Rospocher**, Salvatore Gaetano Chiarella, Dionigi Mattia Gagliardi, Massimo Salgaro and Giulia Torromino. Text comprehension moderates cognitive biases toward AI authorship in literary content. *Scientific Reports*, vol. 16, no. 1, article 29320. Springer Nature. ISSN: 2045-2322 (2026)
[doi:10.1038/s41598-026-65454-z]
[scopus:2-s2.0-105051160652]
- Dario Ianes, Sofia Cramerotti, **Marco Rospocher**, Marco Bombieri and Benedetta Zagni. Le voci dell'inclusione: scoprirle e analizzarle con AI e analisi statistiche. *IUL Research*, vol. 7, no. 13, pp. 8–29. IUL Press (2026)
[doi:10.57568/iulresearch.v7i13.832]
- **Marco Rospocher**, Massimo Salgaro and Simone Rebora. Machines Prefer Humans as Literary Authors: Evaluating Authorship Bias in Large Language Models. *Information*, vol. 17, no. 1, article 95. MDPI. ISSN: 2078-2489 (2026)
[doi:10.3390/info17010095]
[scopus:2-s2.0-105028589299]
[wos:001670542300001]
- Iftikhar Muhammad, **Marco Rospocher**, Timotej Knez and Slavko Žitnik. Benchmarking large language models for target-based financial sentiment and stock return. *International Journal of Data Science and Analytics*, vol. 22, no. 1, article 217. Cham Switzerland: Springer International Publishing. ISSN: 2364-4168 (2026)

[doi:10.1007/s41060-026-01201-x]
[scopus:2-s2.0-105043843442]
[wos:001810511000002]

- **Marco Rospoche**r. Author metadata affects Large Language Model scores in scientific peer review. *Discover Artificial Intelligence*, vol. 6, no. 1, article 1404. Springer Nature. ISSN: 2731-0809 (2026)
[doi:10.1007/s44163-026-02268-y]
- Marco Bombieri and **Marco Rospoche**r. Mining Impersonification Bias in LLMs via Survey Filling. *Information*, vol. 16, no. 11, article 931. MDPI. ISSN: 2078-2489 (2025)
[doi:10.3390/info16110931]
[scopus:2-s2.0-105022893001]
[wos:001623834800001]
- Marco Bombieri, Simone Paolo Ponzetto and **Marco Rospoche**r. The Dangerous Effects of a Frustratingly Easy LLMs Jailbreak Attack. *IEEE Access*, vol. 13, pp. 126418-126431. IEEE (2025)
[doi:10.1109/ACCESS.2025.3589112]
[scopus:2-s2.0-105011159029]
[wos:001534557100004]
- Iftikhar Muhammad and **Marco Rospoche**r. On Assessing the Performance of LLMs for Target-Level Sentiment Analysis in Financial News Headlines. *Algorithms*, vol. 18, no. 1, article 46. MDPI. ISSN: 1999-4893 (2025)
[doi:10.3390/a18010046]
[scopus:2-s2.0-85216029670]
[wos:001404010000001]
- Marco Bombieri, **Marco Rospoche**r, Simone Paolo Ponzetto and Paolo Fiorini. The Robotic-Surgery Propositional Bank. *Language Resources and Evaluation*, vol. 58, no. 3, pp. 1043–1071. Springer Nature (2024)
[doi:10.1007/s10579-023-09668-x]
[scopus:2-s2.0-85163063471]
[wos:001004074300001]
- Marco Bombieri, **Marco Rospoche**r, Simone Paolo Ponzetto and Paolo Fiorini. SurgicBERTa: A pre-trained language model for procedural surgical language. *International Journal of Data Science and Analytics*, vol. 18, no. 1, pp. 69–81. Cham Switzerland: Springer International Publishing. ISSN: 2364-4168 (2024)
[doi:10.1007/s41060-023-00433-5]
[scopus:2-s2.0-85168115302]
[wos:001050945700001]
- **Marco Rospoche**r. Detecting explicit lyrics: a case study in Italian music. *Language Resources and Evaluation*, vol. 57, no. 2, pp. 849–867. Springer Nature (2023)
[doi:10.1007/s10579-022-09595-3]
[scopus:2-s2.0-85130242158]
[wos:000798410500001]
- **Marco Rospoche**r and Samaneh Eksir. Assessing Fine-Grained Explicitness of Song Lyrics. *Information*, vol. 14, no. 3, article 159. MDPI. ISSN: 2078-2489 (2023)
[doi:10.3390/info14030159]
[scopus:2-s2.0-85151097162]
[wos:000955318200001]
- Marco Bombieri, **Marco Rospoche**r, Simone Paolo Ponzetto and Paolo Fiorini. Machine understanding surgical actions from intervention procedure textbooks. *Computers in Biology and Medicine*, vol. 152, article 106415. Elsevier Ltd. ISSN: 0010-4825 (2023)
[doi:10.1016/j.compbiomed.2022.106415]

- [[scopus:2-s2.0-85144338000](#)]
[[wos:000900243500001](#)]
- Marco Bombieri, Daniele Meli, Diego Dall'Alba, **Marco Rospo**cher and Paolo Fiorini. Mapping natural language procedures descriptions to linear temporal logic templates: an application in the surgical robotic domain. *Applied Intelligence*, vol. 53, no. 22, pp. 26351–26363. Springer Nature. ISSN: 1573-7497 (2023)
[[doi:10.1007/s10489-023-04882-0](#)]
[[scopus:2-s2.0-85168563884](#)]
[[wos:001052495200001](#)]
 - **Marco Rospo**cher. On exploiting transformers for detecting explicit song lyrics. *Entertainment Computing*, vol. 43, article 100508. Elsevier B.V.. ISSN: 1875-9521 (2022)
[[doi:10.1016/j.entcom.2022.100508](#)]
[[scopus:2-s2.0-85132214046](#)]
[[wos:000822791600001](#)]
 - Shahi Dost, Luciano Serafini, **Marco Rospo**cher, Lamberto Ballan and Alessandro Sperduti. Aligning and linking entity mentions in image, text, and knowledge base. *Data & Knowledge Engineering*, vol. 138. Elsevier B.V.. ISSN: 0169-023X (2022)
[[doi:10.1016/j.datak.2021.101975](#)]
[[scopus:2-s2.0-85123608690](#)]
[[wos:000791242800002](#)]
 - Matteo Lorenzini, **Marco Rospo**cher and Sara Tonelli. Automatically evaluating the quality of textual descriptions in cultural heritage records. *International Journal on Digital Libraries*, vol. 22, no. 2, pp. 217–231. Springer Nature. ISSN: 1432-1300 (2021)
[[doi:10.1007/s00799-021-00302-1](#)]
[[scopus:2-s2.0-85105217980](#)]
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 - Marco Bombieri, **Marco Rospo**cher, Diego Dall'Alba and Paolo Fiorini. Automatic detection of procedural knowledge in robotic-assisted surgical texts. *International Journal of Computer Assisted Radiology and Surgery*, vol. 16, pp. 1287–1295. Springer Nature. ISSN: 1861-6429 (2021)
[[doi:10.1007/s11548-021-02370-9](#)]
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[[wos:000642361700001](#)]
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