

# Curriculum Vitae

Marco Rospoche

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# 1 General Information

## 1.1 Personal Data

- Family Name: Rospocher
- 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://goo.gl/maps/8axyVxuDBhJu3uZz5>
- Phone Number: (+39) 045 8028326
- e-mail: [marco.rospocher@univr.it](mailto:marco.rospocher@univr.it)
- Home Page: <https://marcorospocher.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/Rospocher:Marco>
- Orcid: <https://orcid.org/0000-0001-9391-3201>
- GitHub: <https://github.com/rospocher>

## 1.2 Education

- Ph.D. in Information and Communication Technologies  
ICT School, University of Trento, Italy  
Mar 31, 2006  
Thesis: On the computational complexity of enumerating certificates of NP problems  
Advisor: Prof. Romeo Rizzi  
Manuscript: <https://marcorospocher.com/files/phd/2006phd.pdf>
- M.Sc. (Laurea) degree in Mathematics  
University of Trento, Italy  
Mar 27, 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 National Scientific Qualification

- National Scientific Qualification as full professor in Italian Universities for sector 01/B1 (Informatica / Informatics)  
Dec 12, 2023  
<https://asn21.cineca.it/pubblico/miur/esito-abilitato/01%252FB1/1/6>

- National Scientific Qualification as full professor in Italian Universities for sector 09/H1 (Sistemi di Elaborazione Delle Informazioni / Information Processing Systems)  
Dec 17, 2023  
<https://asn21.cineca.it/pubblico/miur/esito-abilitato/09%252FH1/1/6>
- National Scientific Qualification as associate professor in Italian Universities for sector 01/B1 (Informatica / Informatics)  
Dec 5, 2017  
<https://asn16.cineca.it/pubblico/miur/esito-abilitato/01%252FB1/2/3>
- National Scientific Qualification as associate professor in Italian Universities for sector 09/H1 (Sistemi di Elaborazione Delle Informazioni / Information Processing Systems)  
Dec 5, 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: Dec 28, 2018

## 1.5 Past Positions

### 1.5.1 Past Work and Research Experiences

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

### 1.5.2 Research Grants

- Research grant at the Department of Information Engineering and Computer Science (DISI), University of Trento  
Nov 1, 2005 - Mar 31, 2006
- Research grant at the Department of Information Engineering and Computer Science (DISI), University of Trento  
May 1, 2002 - Dec 30, 2002

### 1.5.3 Ph.D. Scholarship

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

## 2 Research Activities

### 2.1 Research Interests

Artificial Intelligence, Information Extraction, Semantic Web, Knowledge Representation and Reasoning, Natural Language Processing, Digital Humanities, Machine/Deep Learning, Methodologies

and Tools for Collaborative Knowledge Acquisition, Computational Complexity, Algorithmic Graph Theory, Combinatorial Optimization

## 2.2 Appointments

- Director of the interdisciplinary research center "Digital Arena for Inclusive Humanities (DAIH)". DAIH is a center of excellence in the field of digital technologies and computational analysis applied to languages and literature, and aims to promote and facilitate inclusion in research, infrastructure, training, and dissemination of scientific content in order to overcome the disparities, inequalities, and discriminations of modern society  
Web-site: <https://www.daih.eu>  
since: Feb 15, 2023

## 2.3 Awards

- 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 Rospocher, Chiara Ghidini, Andrea Valerio)  
Note: The conference is of class 3 and has rating B according to the GII-GRIN-SCIE (GGS) Conference Rating (agg. 2021).  
Certificate: <https://marcorospocher.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 22-26, 2014 - Rio de Janeiro, Brasil) for the contribution "An ontology for personalized environmental decision support" (Marco Rospocher)  
Note: The conference is of class 3 and has rating B- according to the GII-GRIN-SCIE (GGS) Conference Rating (agg. 2021).  
Certificate: <https://marcorospocher.com/files/awards/2014fois.pdf>
- 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 Rospocher)  
Note: The conference is of class 2 and has rating A- according to the GII-GRIN-SCIE (GGS) Conference Rating (agg. 2021).  
Certificate: <https://marcorospocher.com/files/awards/2015eswccha.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 Rospocher, Peter Scheir, Luciano Serafini)  
Note: The conference is of class 1 and has rating A+ according to the GII-GRIN-SCIE (GGS) Conference Rating (agg. 2021).  
Info: <https://marcorospocher.com/files/awards/2008iswc.pdf>
- Distinguished Program Committee Member at the 27th International Joint Conference on Artificial Intelligence and the 23rd European Conference on Artificial Intelligence (IJCAI-ECAI 2018)  
Note: The conference is of class 1 and has rating A++ according to the GII-GRIN-SCIE (GGS)

Conference Rating (agg. 2021).  
Info: <https://www.ijcai-18.org/distinguished-members/>

## 2.4 Publications

### 2.4.1 Bibliometrics Indicators

- Google Scholar
  - Citations: 2152
  - H-index: 25
  - i10-Index: 53
- Scopus
  - Citations: 1196
  - H-index: 18
  - H-index (excl. self-citation): 16

### 2.4.2 Journals

30. Marco Bombieri, **Marco Rospoher**, Simone Paolo Ponzetto, and Paolo Fiorini. The Robotic-Surgery Propositional Bank. *Language Resources and Evaluation* (to appear)  
DOI: [10.1007/s10579-023-09668-x](https://doi.org/10.1007/s10579-023-09668-x)  
Scopus: [2-s2.0-85163063471](https://scopus.com/record/display?id=s2.0-85163063471)  
WoS: [WOS:001004074300001](https://www.webofscience.com/wos/doi/10.1007/s10579-023-09668-x)
29. Marco Bombieri, **Marco Rospoher**, 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(1):69–81 (2024)  
DOI: [10.1007/s41060-023-00433-5](https://doi.org/10.1007/s41060-023-00433-5)  
Scopus: [2-s2.0-85168115302](https://scopus.com/record/display?id=s2.0-85168115302)  
WoS: [WOS:001050945700001](https://www.webofscience.com/wos/doi/10.1007/s41060-023-00433-5)
28. **Marco Rospoher**. Detecting explicit lyrics: a case study in Italian music. *Language Resources and Evaluation*, vol. 57(2):849–867 (2023)  
DOI: [10.1007/s10579-022-09595-3](https://doi.org/10.1007/s10579-022-09595-3)  
Scopus: [2-s2.0-85130242158](https://scopus.com/record/display?id=s2.0-85130242158)  
WoS: [WOS:000798410500001](https://www.webofscience.com/wos/doi/10.1007/s10579-022-09595-3)
27. **Marco Rospoher** and Samaneh Eksir. Assessing Fine-Grained Explicitness of Song Lyrics. *Information*, vol. 14(3). ISSN: 2078-2489 (2023)  
DOI: [10.3390/info14030159](https://doi.org/10.3390/info14030159)  
Scopus: [2-s2.0-85151097162](https://scopus.com/record/display?id=s2.0-85151097162)  
WoS: [WOS:000955318200001](https://www.webofscience.com/wos/doi/10.3390/info14030159)
26. Marco Bombieri, **Marco Rospoher**, Simone Paolo Ponzetto, and Paolo Fiorini. Machine understanding surgical actions from intervention procedure textbooks. *Computers in Biology and Medicine*, vol. 152:106415. ISSN: 0010-4825 (2023)  
DOI: [10.1016/j.combiomed.2022.106415](https://doi.org/10.1016/j.combiomed.2022.106415)  
Scopus: [2-s2.0-85144338000](https://scopus.com/record/display?id=s2.0-85144338000)  
WoS: [WOS:000900243500001](https://www.webofscience.com/wos/doi/10.1016/j.combiomed.2022.106415)

25. Marco Bombieri, Daniele Meli, Diego Dall’Alba, **Marco Rospoche**r, and Paolo Fiorini. Mapping natural language procedures descriptions to linear temporal logic templates: an application in the surgical robotic domain. *Applied Intelligence*, vol. 53(22):26351–26363. ISBN: 1573-7497 (2023)  
DOI: [10.1007/s10489-023-04882-0](https://doi.org/10.1007/s10489-023-04882-0)  
Scopus: [2-s2.0-85168563884](https://scopus.com/record/display?id=s2.0-85168563884)  
WoS: [WOS:001052495200001](https://www.webofscience.com/webofscience/auth/uri/WOS:001052495200001)
24. **Marco Rospoche**r. On exploiting transformers for detecting explicit song lyrics. *Entertainment Computing*, vol. 43:100508. ISSN: 1875-9521 (2022)  
DOI: [10.1016/j.entcom.2022.100508](https://doi.org/10.1016/j.entcom.2022.100508)  
Scopus: [2-s2.0-85132214046](https://scopus.com/record/display?id=s2.0-85132214046)  
WoS: [WOS:000822791600001](https://www.webofscience.com/webofscience/auth/uri/WOS:000822791600001)
23. Shahi Dost, Luciano Serafini, **Marco Rospoche**r, Lamberto Ballan, and Alessandro Sperduti. Aligning and linking entity mentions in image, text, and knowledge base. *Data & Knowledge Engineering*. ISSN: 0169-023X (2022)  
DOI: [10.1016/j.datak.2021.101975](https://doi.org/10.1016/j.datak.2021.101975)  
Scopus: [2-s2.0-85123608690](https://scopus.com/record/display?id=s2.0-85123608690)  
WoS: [WOS:000791242800002](https://www.webofscience.com/webofscience/auth/uri/WOS:000791242800002)
22. Matteo Lorenzini, **Marco Rospoche**r, and Sara Tonelli. Automatically evaluating the quality of textual descriptions in cultural heritage records. *International Journal on Digital Libraries*, vol. 22(2):217–231. ISBN: 1432-1300 (2021)  
DOI: [10.1007/s00799-021-00302-1](https://doi.org/10.1007/s00799-021-00302-1)  
Scopus: [2-s2.0-85105217980](https://scopus.com/record/display?id=s2.0-85105217980)  
WoS: [WOS:000642397400001](https://www.webofscience.com/webofscience/auth/uri/WOS:000642397400001)
21. Marco Bombieri, **Marco Rospoche**r, 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. 16:1287–1295. ISBN: 1861-6429 (2021)  
DOI: [10.1007/s11548-021-02370-9](https://doi.org/10.1007/s11548-021-02370-9)  
Scopus: [2-s2.0-85105190196](https://scopus.com/record/display?id=s2.0-85105190196)  
WoS: [WOS:000642361700001](https://www.webofscience.com/webofscience/auth/uri/WOS:000642361700001)
20. **Marco Rospoche**r. Explicit song lyrics detection with subword-enriched word embeddings. *Expert Systems with Applications*, vol. 163. ISSN: 0957-4174 (2021)  
DOI: [10.1016/j.eswa.2020.113749](https://doi.org/10.1016/j.eswa.2020.113749)  
Scopus: [2-s2.0-85089102640](https://scopus.com/record/display?id=s2.0-85089102640)  
WoS: [WOS:000582115400006](https://www.webofscience.com/webofscience/auth/uri/WOS:000582115400006)
19. Matteo Lorenzini, **Marco Rospoche**r, and Sara Tonelli. On assessing metadata completeness in digital cultural heritage repositories. *Digital Scholarship in the Humanities*, vol. 36(Supplement 2):ii182-ii188. ISSN: 2055-7671 (2021)  
DOI: [10.1093/llc/fqab036](https://doi.org/10.1093/llc/fqab036)  
Scopus: [2-s2.0-85139912523](https://scopus.com/record/display?id=s2.0-85139912523)  
WoS: [WOS:000756289000016](https://www.webofscience.com/webofscience/auth/uri/WOS:000756289000016)
18. **Marco Rospoche**r and Francesco Corcoglioniti. Knowledge-driven joint posterior revision of named entity classification and linking. *Journal of Web Semantics*, vol. 65:100617. ISSN: 1570-8268 (2020)

- DOI: [10.1016/j.websem.2020.100617](https://doi.org/10.1016/j.websem.2020.100617)  
Scopus: [2-s2.0-85093703848](https://scopus.com/document/detail/2-s2.0-85093703848)  
WoS: [WOS:000598338300006](https://www.webofscience.com/webofscience/auth/uri/WoS:000598338300006)
17. Matteo Lorenzini, **Marco Rospoche**r, and Sara Tonelli. Proposta per una valutazione automatica della completeness dei metadati nel contesto delle biblioteche digitali. *DigItalia*, vol. 2:159–167 (2020)  
DOI: [10.36181/digitalia-00023](https://doi.org/10.36181/digitalia-00023)
  16. **Marco Rospoche**r, Francesco Corcoglioniti, and Mauro Dragoni. Boosting Document Retrieval with Knowledge Extraction and Linked Data. *Semantic Web - Interoperability, Usability, Applicability*, vol. 10(4):753–778. ISSN: 2210-4968 (2019)  
DOI: [10.3233/SW-180325](https://doi.org/10.3233/SW-180325)  
Scopus: [2-s2.0-85066428245](https://scopus.com/document/detail/2-s2.0-85066428245)  
WoS: [WOS:000488080900005](https://www.webofscience.com/webofscience/auth/uri/WoS:000488080900005)
  15. **Marco Rospoche**r, Francesco Corcoglioniti, and Alessio Palmero Aprosio. PreMON: LODifying Linguistic Predicate Models. *Language Resources and Evaluation*, vol. 53(3):499–524 (2019)  
DOI: [10.1007/s10579-018-9437-8](https://doi.org/10.1007/s10579-018-9437-8)  
Scopus: [2-s2.0-85057966885](https://scopus.com/document/detail/2-s2.0-85057966885)  
WoS: [WOS:000482894600007](https://www.webofscience.com/webofscience/auth/uri/WoS:000482894600007)
  14. Giulio Petrucci, **Marco Rospoche**r, and Chiara Ghidini. Expressive Ontology Learning as Neural Machine Translation. *Journal of Web Semantics*, vol. 52-53:66-82. Elsevier B.V.. ISSN: 1570-8268 (2018)  
DOI: [10.1016/j.websem.2018.10.002](https://doi.org/10.1016/j.websem.2018.10.002)  
Scopus: [2-s2.0-85056574730](https://scopus.com/document/detail/2-s2.0-85056574730)  
WoS: [WOS:000451072400005](https://www.webofscience.com/webofscience/auth/uri/WoS:000451072400005)
  13. Francesco Corcoglioniti, **Marco Rospoche**r, and Alessio Palmero Aprosio. Frame-Based Ontology Population with PIKES. *IEEE Transactions on Knowledge and Data Engineering*, vol. 28(12):3261–3275. IEEE. ISSN: 1041-4347 (2016)  
DOI: [10.1109/TKDE.2016.2602206](https://doi.org/10.1109/TKDE.2016.2602206)  
Scopus: [2-s2.0-84996478366](https://scopus.com/document/detail/2-s2.0-84996478366)  
WoS: [WOS:000388214700010](https://www.webofscience.com/webofscience/auth/uri/WoS:000388214700010)
  12. Piek Vossen, Rodrigo Agerri, Itziar Aldabe, Agata Cybulska, Marieke van Erp, Antske Fokkens, Egoitz Laparra, Anne-Lyse Minard, Alessio Palmero Aprosio, German Rigau, **Marco Rospoche**r, and Roxane Segers. NewsReader: Using knowledge resources in a cross-lingual reading machine to generate more knowledge from massive streams of news. *Knowledge-Based Systems*, vol. 110:60–85. Elsevier B.V.. ISSN: 0950-7051 (2016)  
DOI: [10.1016/j.knosys.2016.07.013](https://doi.org/10.1016/j.knosys.2016.07.013)  
Scopus: [2-s2.0-84978884184](https://scopus.com/document/detail/2-s2.0-84978884184)  
WoS: [WOS:000384384700005](https://www.webofscience.com/webofscience/auth/uri/WoS:000384384700005)
  11. **Marco Rospoche**r, Marieke van Erp, Piek Vossen, Antske Fokkens, Itziar Aldabe, German Rigau, Aitor Soroa, Thomas Ploeger, and Tessel Bogaard. Building Event-Centric Knowledge Graphs from News. *Web Semantics: Science, Services and Agents on the World Wide Web*, vol. 37-38:132–151. Elsevier B.V.. ISSN: 1570-8268 (2016)  
DOI: [10.1016/j.websem.2015.12.004](https://doi.org/10.1016/j.websem.2015.12.004)



Scopus: [2-s2.0-84994652650](#)

WoS: [WOS:000376457600009](#)

10. Sofia Cramerotti, Massimo Turrini, Marco Buccio, Silvia Larentis, **Marco Rospoche**r, Luciano Serafini, Elena Cardillo, and Ivan Donadello. ePlanning: an Ontology-based System for Building Individualized Education Plans for Students with Special Educational Needs. *MED – Media Education*, vol. 6(1):101–110. Edizioni Centro Studi Erickson S.p.a.. ISSN: 2038-3002 (2015)  
URL: <https://oaj.fupress.net/index.php/med/article/view/8719>
9. Francesco Corcoglioniti, **Marco Rospoche**r, Roldano Cattoni, Bernardo Magnini, and Luciano Serafini. The KnowledgeStore: a Storage Framework for Interlinking Unstructured and Structured Knowledge. *International Journal on Semantic Web and Information Systems*, vol. 11(2):1–35. IGI Global. ISSN: 1552-6283; 1552-6291 (2015)  
DOI: [10.4018/IJSWIS.2015040101](#)  
Scopus: [2-s2.0-84945185646](#)  
WoS: [WOS:000370276700001](#)
8. Leo Wanner, Harald Bosch, Nadjat Bouayad-Agha, Gerard Casamayor, Thomas Ertl, Desiree Hilbring, Lasse Johansson, Kostas Karatzas, Ari Karppinen, Ioannis Kompatsiaris, Tarja Koskentalo, Simon Mille, Jürgen Moßgraber, Anastasia Moutzidou, Maria Myllynen, Emanuele Pianta, **Marco Rospoche**r, Luciano Serafini, Virpi Tarvainen, Sara Tonelli, and Stefanos Vrochidis. Getting the environmental information across: from the Web to the user. *Expert Systems*, vol. 32(3):405–432. John Wiley & Sons Ltd. ISSN: 1468-0394 (2015)  
DOI: [10.1111/exsy.12100](#)  
Scopus: [2-s2.0-84930819621](#)  
WoS: [WOS:000355958900006](#)
7. Leo Wanner, **Marco Rospoche**r, Stefanos Vrochidis, Lasse Johansson, Nadjat Bouayad-Agha, Gerard Casamayor, Ari Karppinen, Ioannis Kompatsiaris, Simon Mille, Anastasia Moutzidou, and Luciano Serafini. Ontology-centered environmental information delivery for personalized decision support. *Expert Systems with Applications*, vol. 42(12):5032–5046. Elsevier B.V.. ISSN: 0957-4174 (2015)  
DOI: [10.1016/j.eswa.2015.02.048](#)  
Scopus: [2-s2.0-84939947866](#)  
WoS: [WOS:000353746900002](#)
6. Chiara Di Francescomarino, Chiara Ghidini, and **Marco Rospoche**r. Evaluating Wiki Collaborative Features in Ontology Authoring. *IEEE Transactions on Knowledge and Data Engineering*, vol. 26(12):2997–3011. IEEE. ISSN: 1041-4347 (2014)  
DOI: [10.1109/TKDE.2014.2312325](#)  
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2. Marieke van Erp, Raphaël Troncy, **Marco Rospocher**, Willem Robert van Hage, and David A. Shamma. Proceedings of the 4th International Workshop on Detection, Representation, and Exploitation of Events in the Semantic Web (DeRiVE 2015). Vol. 1363 of *CEUR Proceedings*. CEUR-WS.org. ISSN: 1613-0073 (2015)  
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URL: <http://ceur-ws.org/Vol-1272/>  
Scopus: 2-s2.0-84921889682

## 2.5 Presentations

### 2.5.1 Invited Talks / Seminars

- chatGPT: avvertenze per l'uso  
Il "caso ChatGPT" - Tra prospettive di sviluppo e di regolamentazione dell'IA. Un approccio multidisciplinare - Verona, Italy  
Jun 21, 2023  
Slides: [https://marcorospocher.com/files/slides/2023chatGPT\\_slides.pdf](https://marcorospocher.com/files/slides/2023chatGPT_slides.pdf)
- Joint Posterior Revision of NLP Entity Annotations via Ontological Knowledge  
NLP seminar series at Dublin City University / ADAPT Centre - Dublin, Ireland  
Feb 13, 2023  
Slides: [https://marcorospocher.com/files/slides/2023adapt\\_slides.pdf](https://marcorospocher.com/files/slides/2023adapt_slides.pdf)
- Knowledge representation and reasoning with ontologies  
Commonsense Reasoning in Surgical Robotics (COSER) summer school - Verona, Italy  
May 3, 2022  
Slides: [https://marcorospocher.com/files/slides/2022coser\\_slides.pdf](https://marcorospocher.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  
Jan 22, 2021  
Slides: [https://marcorospocher.com/files/slides/2021mtl\\_slides.pdf](https://marcorospocher.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  
Dec 4, 2019  
Slides: [https://marcorospocher.com/files/slides/2019DIuniVR\\_slides.pdf](https://marcorospocher.com/files/slides/2019DIuniVR_slides.pdf)



- Improving NLP Entity Annotations via Ontological Knowledge  
SCC Seminar Series (FBK) - Trento, Italy  
Nov 15, 2018  
Slides: [https://marcorospoche.com/files/slides/2018scc\\_slides.pdf](https://marcorospoche.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, California, US  
Oct 4, 2018  
Slides: [https://marcorospoche.com/files/slides/2018semdeep4\\_slides.pdf](https://marcorospoche.com/files/slides/2018semdeep4_slides.pdf)
- KnowledgeStore  
NewsReader Workshop - Amsterdam Public Library, Amsterdam, Netherlands  
Nov 21, 2015  
Slides: [https://marcorospoche.com/files/slides/2015nwr\\_slides.pdf](https://marcorospoche.com/files/slides/2015nwr_slides.pdf)
- An Ontological Framework for Decision Support  
Ontology Summit Track C session on Decision Making in Different Domains - Virtual Meeting  
Mar 19, 2015  
Slides: [https://marcorospoche.com/files/slides/2015ontosum\\_slides.pdf](https://marcorospoche.com/files/slides/2015ontosum_slides.pdf)
- Dati e Ricerca  
Beni comuni digitali: una risorsa per il territorio, le istituzioni e i cittadini di oggi e domani - Riva del Garda, Italy  
Mar 18, 2015  
Slides: [https://marcorospoche.com/files/slides/2015dati\\_slides.pdf](https://marcorospoche.com/files/slides/2015dati_slides.pdf)
- KnowledgeStore  
Workshop on Deep and Large-Scale Semantic Processing: The Way Ahead - Trento, Italy  
Mar 10, 2015  
Slides: [https://marcorospoche.com/files/slides/2015jpn\\_slides.pdf](https://marcorospoche.com/files/slides/2015jpn_slides.pdf)
- Semantic Management in PESCaDO  
PESCaDO Final Event - UPF, Barcelona, Spain  
Feb 14, 2012  
Slides: [https://marcorospoche.com/files/slides/2012pescado\\_slides.pdf](https://marcorospoche.com/files/slides/2012pescado_slides.pdf)
- Collaborative modeling of processes and ontologies  
BMIR Research Colloquium - Stanford University, Palo Alto, US  
Sep 22, 2011  
Slides: [https://marcorospoche.com/files/slides/2011bmir\\_slides.pdf](https://marcorospoche.com/files/slides/2011bmir_slides.pdf)
- Collaborative modeling of processes and ontologies  
DERI Open Day - Digital Enterprise Research Institute, Galway, Ireland  
Apr 7, 2011  
Slides: [https://marcorospoche.com/files/slides/2011deri\\_slides.pdf](https://marcorospoche.com/files/slides/2011deri_slides.pdf)
- MoKi and the ProDe project  
ICT Days - University of Trento, Trento, Italy  
Mar 16, 2011  
Slides: [https://marcorospoche.com/files/slides/2011ict\\_slides.pdf](https://marcorospoche.com/files/slides/2011ict_slides.pdf)
- MoKi: the Modelling Wiki  
ILIKS Annual Meeting - Trento, Italy

Dec 18, 2009

Slides: [https://marcorospoche.com/files/slides/2009iliks\\_slides.pdf](https://marcorospoche.com/files/slides/2009iliks_slides.pdf)

- Organic Agriculture and MoKi  
Organic.Edunet Ontology Workshop Meeting - FAO, Rome, Italy  
Oct 6, 2009
- Modelling in APOSDLE  
ACTIVE EU Project Meeting - STI, Innsbruck, Austria  
Jan 27, 2009  
Slides: [https://marcorospoche.com/files/slides/2009active\\_slides.pdf](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  
Oct 18, 2006  
Slides: [https://marcorospoche.com/files/slides/2006itc\\_slides.pdf](https://marcorospoche.com/files/slides/2006itc_slides.pdf)

### 2.5.2 Conference Talks

- 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  
May 22, 2024 - May 24, 2024  
Slides: [https://marcorospoche.com/files/slides/2024daidh\\_slides.pdf](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  
Dec 14, 2023 - Dec 16, 2023  
Video: <https://www.youtube.com/watch?v=BN10BcqZepk&t=3622s>
- 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  
Dec 10, 2021
- Ontologie e locuzioni: modellizzazione di termini complessi nell'ambito del progetto DIACOM  
XXX Convegno Associazione Italiana per la Terminologia - Bolzano, Italia  
Oct 15, 2020 - Oct 16, 2020
- An Ontology-Driven Probabilistic Soft Logic Approach to Improve NLP Entity Annotations  
17th International Semantic Web Conference, ISWC 2018 - Monterey, CA, USA  
Oct 8, 2018 - Oct 12, 2018  
Slides: [https://marcorospoche.com/files/slides/2018iswc\\_research\\_slides.pdf](https://marcorospoche.com/files/slides/2018iswc_research_slides.pdf)  
Video: [http://videolectures.net/iswc2018\\_rospoche\\_ontology\\_driven\\_soft/](http://videolectures.net/iswc2018_rospoche_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  
Jul 13, 2018 - Jul 19, 2018  
Slides: [https://marcorospoche.com/files/slides/2018ijcai\\_slides.pdf](https://marcorospoche.com/files/slides/2018ijcai_slides.pdf)
- Knowledge Extraction for Information Retrieval  
12th Extended Semantic Web Conference, ESWC 2016 - Heraklion, Crete, Greece

May 29, 2016 - Jun 2, 2016

Slides: [https://marcorospoche.com/files/slides/2016eswc\\_slides.pdf](https://marcorospoche.com/files/slides/2016eswc_slides.pdf)

Video: [http://videlectures.net/eswc2016\\_ropoche\\_information\\_retrieval/](http://videlectures.net/eswc2016_ropoche_information_retrieval/)

- Processing Billions of RDF Triples on a Single Machine using Streaming and Sorting  
30th Annual ACM Symposium on Applied Computing, ACM-SAC2015 - Salamanca, Spain  
Apr 13, 2015 - Apr 17, 2015  
Slides: [https://marcorospoche.com/files/slides/2015sac\\_slides.pdf](https://marcorospoche.com/files/slides/2015sac_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  
Nov 24, 2014 - Nov 28, 2014  
Slides: [https://marcorospoche.com/files/slides/2014ksem\\_slides.pdf](https://marcorospoche.com/files/slides/2014ksem_slides.pdf)
- Investigating Collaboration Dynamics in Different Ontology Development Environments  
7th International Conference on Knowledge Science, Engineering and Management, KSEM 2014 - Sibiu, Romania  
Oct 16, 2014 - Oct 18, 2014  
Slides: [https://marcorospoche.com/files/slides/2014ksem\\_slides.pdf](https://marcorospoche.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  
Sep 22, 2014 - Sep 25, 2014  
Slides: [https://marcorospoche.com/files/slides/2014foisbpmn\\_slides.pdf](https://marcorospoche.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  
Sep 22, 2014 - Sep 25, 2014  
Slides: [https://marcorospoche.com/files/slides/2014foispescado\\_slides.pdf](https://marcorospoche.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  
Sep 16, 2013 - Sep 18, 2013  
Slides: [https://marcorospoche.com/files/slides/2013icsc\\_slides.pdf](https://marcorospoche.com/files/slides/2013icsc_slides.pdf)
- An Ontological Framework for Decision Support  
2nd Joint International Semantic Technology Conference, JIST2012 - Nara, Japan  
Dec 2, 2012 - Dec 4, 2012  
Slides: [https://marcorospoche.com/files/slides/2012jist\\_slides.pdf](https://marcorospoche.com/files/slides/2012jist_slides.pdf)
- Evaluating wiki-enhanced ontology authoring  
18th International Conference on Knowledge Engineering and Knowledge Management, EKAW2012 - Galway, Ireland  
Oct 8, 2012 - Oct 12, 2012  
Slides: [https://marcorospoche.com/files/slides/2012ekaw\\_slides.pdf](https://marcorospoche.com/files/slides/2012ekaw_slides.pdf)  
Video: <https://www.youtube.com/watch?v=zOTY8j-w4j4>
- Conceptual Modeling in Wikis: a Reference Architecture and a Tool  
The Fourth International Conference on Information, Process, and Knowledge Management, eKNOW2012 - Valencia, Spain

Jan 30, 2012 - Feb 4, 2012

Slides: [https://marcorospoche.com/files/slides/2012eknow\\_slides.pdf](https://marcorospoche.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  
Sep 18, 2011 - Sep 21, 2011  
Slides: [https://marcorospoche.com/files/slides/2011icsc\\_slides.pdf](https://marcorospoche.com/files/slides/2011icsc_slides.pdf)
- Reasoning on Semantically Annotated Processes  
6th International Conference on Service-Oriented Computing, ICSOC2008 - Sydney, Australia  
Dec 1, 2008 - Dec 5, 2008  
Slides: [https://marcorospoche.com/files/slides/2008icsoc\\_slides.pdf](https://marcorospoche.com/files/slides/2008icsoc_slides.pdf)
- Collaborative Knowledge Engineering via Semantic MediaWiki  
International Conference on Semantic Systems, I-SEMANTICS08 - Graz University of Technology, Graz, Austria  
Sep 3, 2008 - Sep 5, 2008  
Slides: [https://marcorospoche.com/files/slides/2008isemantics\\_slides.pdf](https://marcorospoche.com/files/slides/2008isemantics_slides.pdf)

### 2.5.3 Workshop Talks

- A Simple API to the KnowledgeStore  
Developers Workshop at the 13th Int. Semantic Web Conference (ISWC'14) - Riva del Garda, Italy  
Oct 19, 2014  
Slides: [https://marcorospoche.com/files/slides/2014iswcSemDev02\\_slides.pdf](https://marcorospoche.com/files/slides/2014iswcSemDev02_slides.pdf)
- MoKi: the Modelling wiKi  
SemWiki2009 - Fourth Workshop on Semantic Wikis - Heraklion, Crete, Greece  
Jun 1, 2009  
Slides: [https://marcorospoche.com/files/slides/2009semwiki\\_slides.pdf](https://marcorospoche.com/files/slides/2009semwiki_slides.pdf)

### 2.5.4 Demo and Poster Presentations

- Towards Integration of Ontology and Text-extracted Data for Event Coreference Reasoning  
32nd Annual ACM Symposium on Applied Computing, ACM-SAC2017 - Marrakesh, Morocco  
Apr 3, 2017 - Apr 7, 2017  
Poster: [https://marcorospoche.com/files/posters/2017sac\\_poster.pdf](https://marcorospoche.com/files/posters/2017sac_poster.pdf)
- Demonstrating the Power of Streaming and Sorting for Non-distributed RDF Processing: RDF-pro  
ISWC 2015 Posters & Demonstrations Track - Bethlehem, USA  
Oct 11, 2015 - Oct 15, 2015  
Poster: [https://marcorospoche.com/files/posters/2015iswcdemo2\\_poster.pdf](https://marcorospoche.com/files/posters/2015iswcdemo2_poster.pdf)
- Extracting Knowledge from Text with PIKES  
ISWC 2015 Posters & Demonstrations Track - Bethlehem, USA  
Oct 11, 2015 - Oct 15, 2015  
Poster: [https://marcorospoche.com/files/posters/2015iswcdemo1\\_poster.pdf](https://marcorospoche.com/files/posters/2015iswcdemo1_poster.pdf)
- Integrating Unstructured and Structured Knowledge with the KnowledgeStore  
19th International Conference on Knowledge Engineering and Knowledge Management, EKAW 2014 - Linköping, Sweden

Nov 24, 2014 - Nov 28, 2014

Poster: [https://marcorospocher.com/files/posters/2014ekawdemo\\_poster.pdf](https://marcorospocher.com/files/posters/2014ekawdemo_poster.pdf)

- Key-concept Extraction for Ontology Engineering  
18th International Conference on Knowledge Engineering and Knowledge Management, EKAW 2012 - Galway, Ireland  
Oct 8, 2012 - Oct 12, 2012  
Poster: [https://marcorospocher.com/files/posters/2012ekawdemo\\_poster.pdf](https://marcorospocher.com/files/posters/2012ekawdemo_poster.pdf)
- MoKi: a Wiki-Based Conceptual Modeling Tool  
EKAW2010 Poster and Demo Track - Lisbona, Portugal  
Oct 11, 2010 - Oct 15, 2010  
Poster: [https://marcorospocher.com/files/posters/2010ekawdemo\\_2\\_poster.pdf](https://marcorospocher.com/files/posters/2010ekawdemo_2_poster.pdf)
- MoKi: The Enterprise Modelling Wiki  
6th European Semantic Web Conference, ESWC 2009 - Heraklion, Crete, Greece  
May 31, 2009 - Jun 4, 2009  
Poster: [https://marcorospocher.com/files/posters/2009eswcdemo\\_poster.pdf](https://marcorospocher.com/files/posters/2009eswcdemo_poster.pdf)
- Collaborative Knowledge Engineering via Semantic MediaWiki  
16th International Conference on Knowledge Engineering and Knowledge Management Knowledge Patterns, EKAW2008 - Aci Trezza, Italy  
Sep 29, 2008 - Oct 3, 2008  
Poster: [https://marcorospocher.com/files/posters/2008ekaw\\_poster.pdf](https://marcorospocher.com/files/posters/2008ekaw_poster.pdf)

## 2.6 Abroad Research Stays

- Visiting Scholar at the Musen Lab, Stanford Center for Biomedical Informatics Research, Stanford University  
Sep 1, 2013 - Dec 31, 2013  
Host: Dr. Tania Tudorache, Prof. Dr. Md. Mark Musen  
Research Topic: Investigation of collaboration dynamics in different ontology development environments (WebProtege, MoKi)
- Visiting Research Associate at the School of Electrical Engineering and Computer Science, University of Newcastle, NSW, Australia  
Jan 15, 2005 - Apr 15, 2005  
Host: Prof. Pablo Moscato  
Research Topic: Development of combinatorial optimization algorithms for computational biology

## 2.7 Research Groups and International Scientific Collaborations

- Direction of the interdisciplinary research center "Digital Arena for Inclusive Humanities (DAIH)" (<https://www.daih.eu>). DAIH is a center of excellence in the field of digital technologies and computational analysis applied to languages and literatures, with a focus on inclusion. The center's research objectives lie at the intersection of computer science, particularly artificial intelligence, and the humanities, specifically in the areas of linguistic and literary studies. DAIH aims to promote and foster inclusion in research, infrastructure, training, and the dissemination of scientific content to overcome disparities, inequalities, and discriminations in modern society. Established in the context of the Departments of Excellence funding scheme (MUR 2023-2027), the center comprises members from various scientific disciplines and has collaborations at the

national and international levels.

since: Feb 15, 2023

- Establishment and direction of the activities of the research group "Information Extraction for Robotic Surgery" (<https://www.dlss.univr.it/?ent=grupporic&id=503&lang=it>), which involves the University of Verona (with three departments: Engineering for Innovative Medicine, Computer Science, and Foreign Languages and Literatures) and the University of Mannheim (Germany - local contact: Prof. Simone Paolo Ponzetto - <https://www.uni-mannheim.de/dws/people/professors/prof-dr-simone-paolo-ponzetto/>). The group is engaged in researching and developing techniques for extracting information from manuals and textual content in the field of robotic surgery, particularly for extracting procedural knowledge from descriptions of robotic surgery interventions in domain manuals. In the context of the group's activities, I co-supervised, along with Prof. Fiorini, the Ph.D. thesis of Marco Bombieri (University of Verona).

since: Jan 1, 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 (Bruno Kessler Foundation, Trento - <https://dkm.fbk.eu/author/lucianoserafini/>). The research group (involving the University of Verona, University of Padua, and Bruno Kessler Foundation) investigates the development of techniques for the automatic extraction and linking of knowledge from multimodal content (text and images).

since: Jan 1, 2019

- Collaboration with Prof. Dr. Md. Mark Musen (Stanford University, USA - <https://profiles.stanford.edu/mark-musen>). Following the success of an individual mobility grant from the Bruno Kessler Foundation, I had the opportunity to visit the Stanford Center for Biomedical Informatics Research (Stanford University, USA) for three months (September 2013 - December 2013) and establish a research collaboration with the Musen Lab (led by Prof. Dr. Md. Mark Musen) on investigating and comparing collaboration dynamics in tools for collaborative ontology construction (WebProtege, MoKi).

since: Sep 1, 2013

- Collaboration with Prof. Piek Vossen (Vrije Universiteit Amsterdam, The Netherlands - <https://vossen.info/>). The collaboration originated in the context of the NewsReader project (EU FP7 Strep Project, Grant 316404), where I served as the local unit coordinator for the Bruno Kessler Foundation. I established a productive scientific collaboration with Prof. Piek Vossen and his Computational Linguistics & Text Mining Lab (CLTL) at Vrije Universiteit (VU) Amsterdam (The Netherlands), investigating the development of techniques for the automatic extraction of knowledge from textual resources to enable the formalization, interrogation, and automatic reasoning on the extracted knowledge. On these topics, Prof. Vossen formally appointed me as co-promoter for the doctoral thesis of Roxane Segers at Vrije Universiteit Amsterdam.

since: Jan 1, 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 focuses on developing models for the ontological representation of lexical content and best practices for creating linguistic resources according to the principles of Linked Data.

since: May 18, 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 con-

text of the PESCaDO project (EU FP7 Strep Project, Grant 248594), where I served as the local unit coordinator for the Bruno Kessler Foundation. I established a fruitful scientific collaboration with Prof. Leo Wanner and the TALN group at Universidad Pompeu Fabra (Barcelona, Spain), investigating the development of ontology-based automatic reasoning techniques to provide personalized decision support based on user profiles and environmental data (e.g., air quality, pollen concentration).

since: Jan 1, 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 the development of collaborative techniques and tools for the formal modeling in the ASBRU language of clinical medical protocols.

since: Jan 1, 2008

- Collaboration with Prof. Stefanie Lindstaedt (Graz University of Technology & Know-Center, Austria - <https://www.tugraz.at/institute/isds/>). The collaboration originated in the context of the EU APOSDLE project (EU FP6 IP Project, Grant 027023), where I participated on behalf of the Bruno Kessler Foundation and coordinated activities on individual project tasks. I collaborated with Prof. Stefanie Lindstaedt and her group at TU Graz / Know-Center, investigating the development of collaborative techniques and tools for ontology modeling.

since: May 9, 2007

- For over 11 years, I have been part of the "Data and Knowledge Management" research group (led by Luciano Serafini - <https://dkm.fbk.eu/author/lucianoserafini/>) at the Bruno Kessler Foundation (Trento, Italy - [www.fbk.eu](http://www.fbk.eu)). The group is characterized by numerous international collaborations, many of which I established and/or coordinated. During the 11 years with the group, I scientifically coordinated group activities on specific research topics, such as Information Extraction and Semantic Technologies for Decision Support, contributing to 95 publications of the group, with 34 involving collaboration with at least one international co-author (from a foreign university or research institute). As a result of the group's research activities, I contributed to the creation and public release of numerous resources (tools and ontologies) to the scientific community: PSL4EA, JPARK, KE4IR, PIKES, KnowledgeStore, RDFpro, MoKi, TeX-OWL, PreMON, The Event and Situation Ontology (ESO), The PESCaDO Ontology, The BPMN Ontology. I contributed to the acquisition of various research projects for the group (NewsReader, Organic.Lingua). I've been involved, often in coordinating roles, in various European research projects for the group (NewsReader, PESCaDO, APOSDLE) and a research assignment commissioned by the company Edizioni Centro Studi Erickson S.p.A. (ePlanning project). I supervised various doctoral theses (Matteo Lorenzini: 2017 - 2022; Giulio Petrucci: 2013 - 2018; Francesco Corcoglioniti: 2012 - 2016), Master's degree theses (Rakebul Hasan: 2009; Nahid E Mahbub: 2009; Md Kamrul Hasan: 2009; Musawar Saeed: 2009; Matteo Matassoni: 2014; Yiqing Liang: 2017), and Bachelor's degree theses (Marco Spanò: 2018).

since: May 9, 2007

## 2.8 Research Projects

### 2.8.1 Acquisition of Research Projects

I've contributed to the successful acquisition of the following projects and fundings:

- Inclusive Humanities (MUR Dipartimenti di Eccellenza)  
Prospettive di sviluppo nella ricerca e nella didattica delle lingue e letterature straniere



Jan 1, 2023 - Dec 31, 2027

For: Università degli Studi di Verona

Funding: 6,566,335 Euro

- NewsReader (EU FP7 Strep Project, Grant 316404)  
Building structured event indexes of large volumes of financial and economic data for decision making  
Jan 1, 2013 - Dec 31, 2015  
For: Fondazione Bruno Kessler (FBK)  
Funding: 745,000 Euro
- ePlanning (Progetto Di Ricerca Applicata, Finanziato dalla Provincia di Trento ai sensi della L.P. 13.12.1999, n. 6, art. 5)  
Sistema esperto per la creazione di progetti educativo-didattici per alunni con Bisogni Educativi Speciali  
Jan 1, 2012 - Dec 31, 2013  
For: Fondazione Bruno Kessler (FBK)  
Funding: 114,000 Euro
- Organic.Lingua (EU FP7 ICP Project, Grant 270999)  
Demonstrating the potential of a multilingual Web portal for Sustainable Agricultural & Environmental Education  
Mar 1, 2011 - Feb 28, 2014  
For: Fondazione Bruno Kessler (FBK)  
Funding: 225,000 Euro

## 2.8.2 Coordination and Participation in Research Projects

- Inclusive Humanities (MUR Dipartimenti di Eccellenza)  
Prospettive di sviluppo nella ricerca e nella didattica delle lingue e letterature straniere  
Jan 1, 2023 - Dec 31, 2027  
For: Department of Foreign Languages and Literatures, University of Verona  
Role: Principal investigator of the "Informatics and Inclusion" research line of the Excellence Project of the Department of Foreign Languages and Literatures of the University of Verona, financed by the MUR according to the Departments of Excellence program 2023-2027 (total project funding: 6,750,000 euros). In the period Jan 1, 2023 - Dec 31, 2023, I have also been the scientific coordinator for the Work Package for the development of the departmental technological infrastructures of the project (infrastructure funding: 618,550 euros).
- NexusLinguarum (COST Action, CA18209)  
European network for Web-centred linguistic data science  
Jan 1, 2019 - Dec 31, 2023  
Web-site: <https://nexuslinguarum.eu/>  
Role: Member of Working Groups: WG1, WG2
- Le Digital Humanities applicate alle lingue e letterature straniere (MIUR Dipartimenti di Eccellenza)  
Jan 1, 2018 - Dec 31, 2022  
Web-site: <https://dh.dlsl.univr.it/>  
For: Department of Foreign Languages and Literatures, University of Verona  
Role: Scientific responsible for the development of the departmental technological infrastructures



of the Excellence Project of the Department of Foreign Languages and Literatures of the University of Verona, financed by the MUR according to the Departments of Excellence 2018-2022 program. Total project funding: 6,075,000 euros. Infrastructure funding: 851,500 euros.

- NewsReader (EU FP7 Strep Project, Grant 316404)  
Building structured event indexes of large volumes of financial and economic data for decision making  
Jan 1, 2013 - Dec 31, 2015  
Web-site: [https://cordis.europa.eu/project/rcn/106026\\_en.html](https://cordis.europa.eu/project/rcn/106026_en.html)  
For: Fondazione Bruno Kessler (FBK)  
Role: I was responsible for managing the project for the Bruno Kessler Foundation (Project Management, Coordination of Research and Technological Development Activities, Reporting), which participated with 13 people for a total of 103 PM and 744,787 euros of EU funding (full project: 2,800,000 euros). I was also scientific responsible for the entire Work Package 6 "Knowledge Store" on which 32 person-months of three European project partners were engaged: Fondazione Bruno Kessler, Italy; Vrije Universiteit Amsterdam, Holland; Universidad Del Pais Vasco, Spain.
- ePlanning (Progetto Di Ricerca Applicata, Finanziato dalla Provincia di Trento ai sensi della L.P. 13.12.1999, n. 6, art. 5)  
Sistema esperto per la creazione di progetti educativo-didattici per alunni con Bisogni Educativi Speciali  
Jan 1, 2013 - Dec 31, 2014  
For: Fondazione Bruno Kessler (FBK)  
Role: Scientific manager for FBK (FBK staff involved: 6 units); Coordination of all activities (personal management, research, development). Scientific responsible for the contribution for the Bruno Kessler Foundation in the Implementation Objectives (the equivalent of the Work Packages in European projects): OR2 (Formalization of a knowledge model - pupil competence profiles, learning objectives and educational-didactic activities), OR3 ( Inference engine for the automatic generation of individualized educational plans), and OR4 (Prototype development, testing and evaluation of the system).
- PESCaDO (EU FP7 Strep Project, Grant 248594)  
Personalized Environmental Service Configuration and Delivery Orchestration  
Jan 1, 2010 - Dec 31, 2012  
Web-site: [https://cordis.europa.eu/project/rcn/93834\\_en.html](https://cordis.europa.eu/project/rcn/93834_en.html)  
For: Fondazione Bruno Kessler (FBK)  
Role: I was responsible for managing the project for the Bruno Kessler Foundation (Project Management, Coordination of Research and Technological Development Activities, Reporting), which participated with 5 people for a total of 70 person-months and 505,648 euros of EU funding (full project: 2,785,300 euros). I was also scientific responsible for the entire Work Package 5 "Reasoning and user-oriented decision support" on which 48.5 person-months of six European project partners were engaged: Fondazione Bruno Kessler, Italy; Universidad Pompeu Fabra, Spain; University of Stuttgart, Germany; Helsinki Region Environmental Services Authority, Finland; Finnish Meteorological Institute, Finland; Center for Research and Technology Hellas, Greece.
- APOSDLE (EU FP6 IP Project, Grant 027023)  
Advanced process-oriented self-directed learning environment  
Mar 1, 2006 - Feb 28, 2010  
Web-site: [https://cordis.europa.eu/project/rcn/80574\\_en.html](https://cordis.europa.eu/project/rcn/80574_en.html)

For: Fondazione Bruno Kessler (FBK)

Role: Scientific manager of Task 7.3 "Standardization Activities" of the project, in which 21 person-months of eight European project partners were engaged: Fondazione Bruno Kessler, Italy; City University London, UK; Fraunhofer, Germany; SAP AG, Germany; Universiteit Twente, The Netherlands; Know Center, Austria; TU Graz, Austria; Joanneum Research, Austria. Participation in research and development activities.

## 2.9 Scientific supervision of research fellowships

- Scientific coordinator of the two-year research grant for the research program "Analysis of the Limits and Potential of AI Language Tools for Inclusion" (AdR4308/23, University of Verona, INF/01). Grant recipient: Dr. Marco Bombieri.  
Feb 1, 2024 - Jan 31, 2026

## 2.10 Resources

### 2.10.1 Tools

- Explicit Lyrics Detectors  
A suite of classifiers (e.g., Logistic Regression, FastText, 1D-CNN, BERT) to automatically assess whether the lyrics of songs contain explicit content. Besides the Python code for training and evaluating the classifiers, pre-trained, ready-to-use models are made available, both for English and Italian  
Web-site: <https://github.com/rospoche/rospoche-explicit-lyrics-detection/>
- PSL4EA: Probabilistic Soft Logic for Entity Annotation  
An ontological knowledge powered approach based on Probabilistic Soft Logic for jointly revising multiple NLP entity annotations  
Web-site: <https://pikes.fbk.eu/psl4ea.html>  
Video: [http://videolectures.net/iswc2018\\_rospoche\\_ontology\\_driven\\_soft/](http://videolectures.net/iswc2018_rospoche_ontology_driven_soft/)
- JPARK: Joint Posterior Revision of NLP Annotations via Ontological Knowledge  
A probabilistic model leveraging ontological knowledge for improving the coherence and revise NLP entity annotations  
Web-site: <https://pikes.fbk.eu/jpark.html>
- KE4IR: Knowledge Extraction for Information Retrieval  
An approach that improves the performances of the traditional term-based similarity solution for document retrieval by performing a semantic analysis and enrichment (via PIKES) of the query and the documents  
Web-site: <https://pikes.fbk.eu/ke4ir.html>  
Video: [http://videolectures.net/eswc2016\\_rospoche\\_information\\_retrieval/](http://videolectures.net/eswc2016_rospoche_information_retrieval/)
- PIKES: A Suite for Extracting Knowledge from Text  
A framework for extracting linked-data knowledge graphs from natural language text  
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, and Semantic Web grounded storage system to jointly store, manage, retrieve, and semantically query, both structured and unstructured content  
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 public domain, Java command line tool and library for RDF processing  
Web-site: <https://rdfpro.fbk.eu>  
Video: <https://www.youtube.com/embed/Vd2FCVRL8fk>
- **MoKi:** The modelling wiki  
A collaborative tool that supports the creation of articulated enterprise models (ontologies and business processes) through structured wiki pages
- **TeX-OWL:** A Latex-Style Syntax for authoring OWL 2 ontologies  
A new latex-style syntax that can be used to write OWL 2 ontologies  
Web-site: <https://github.com/dkmfbk/TexOwl>

### 2.10.2 Ontologies

- **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 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://marcorospoche.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://marcorospoche.com/backup-resources/bpmn/>

### 2.10.3 Language Models

- **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>

### 2.10.4 Linguistic Resources

- **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/>

### 2.10.5 Datasets

- Explicit lyrics datasets

Two annotated datasets, one for English lyrics (807K songs) and one for Italian lyrics (37K songs), built starting from Spotify and LyricWiki content, to support the training and evaluation of automatic tools for detecting explicit song lyrics, i.e., lyrics whose content is unsuitable for children. An additional dataset (4K songs) is manually annotated with fine-grained explicitness information, i.e., why the song lyrics are marked as explicit (e.g., strong language, sexual reference)

Web-site: <https://github.com/rospoche/explicit-lyrics-detection/>

- Surgical Procedural Knowledge Sentences (SPKS)

SPKS is a textual dataset for the surgical robotic field consisting of 1.958 sentences (37.022 words and 3.999 unique words) manually annotated as procedural and non-procedural by an expert annotator

Web-site: <https://gitlab.com/altairLab/spks-dataset/>

- Visual-Textual-Knowledge Entity Linking (VTCEL)

VTCEL, derived from Flickr30k-Entities dataset, consists of documents composed of a picture and five corresponding descriptions captioning it. Visual and textual mentions of each picture and captions are annotated and aligned to entities typed with classes from YAGO

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 100K textual descriptions of cultural items from Cultura Italia, the Italian National Cultural aggregator. Each of the description is labeled either HIGH or LOW quality, according its adherence to the standard cataloguing guidelines provided by Istituto Centrale per il Catalogo e la Documentazione (ICCD)

Web-site: <https://doi.org/10.6084/m9.figshare.13359104.v1>

## 3 Professional and Community Services

### 3.1 Journal Editorial Boards

- Member of the Editorial Board of Information Processing & Management (Elsevier Journal) since: Mar 2, 2020

Q1 Journal for both COMPUTER SCIENCE, INFORMATION SYSTEMS and INFORMATION SCIENCE & LIBRARY SCIENCE (source: Clarivate Journal Citation Reports, april 2023).

<https://www.journals.elsevier.com/information-processing-and-management/editorial-board>

- Guest Editor of the Special Issue "The Role of Artificial Intelligence for Diversity, Equity, and Inclusion" of Information (MDPI Journal)

Deadline for manuscript submissions: February 28, 2025. Q2 Journal per COMPUTER SCIENCE, INFORMATION SYSTEMS (source: Clarivate Journal Citation Reports, april 2024).  
[https://www.mdpi.com/journal/information/special\\_issues/Y7H8YYZDTV](https://www.mdpi.com/journal/information/special_issues/Y7H8YYZDTV)

- Guest Co-editor of the Special Issue "Knowledge and Language Processing" of Information Processing & Management (Elsevier Journal)  
The selected articles are published in Volume 57, Issue 6, November 2020 of the journal. Q1 Journal for both COMPUTER SCIENCE, INFORMATION SYSTEMS and INFORMATION SCIENCE & LIBRARY SCIENCE (source: Clarivate Journal Citation Reports, april 2023).  
<https://www.sciencedirect.com/journal/information-processing-and-management/vol/57/issue/6>
- Guest Co-editor of the Special Issue "Applied Cognitive Computing: Challenges, Approaches, and Real-World Experiences" of Progress In Artificial Intelligence (Springer Journal)  
The selected articles are published in Volume 7, issue 4, December 2018 of the journal. Q3 Journal for COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE (source: Clarivate Journal Citation Reports, april 2023).  
<https://link.springer.com/journal/13748/volumes-and-issues/7-4>

### 3.2 Journal Reviewing

- ACM Transactions on Intelligent Systems and Technology (ACM TIST)  
Web-site: <https://dl.acm.org/journal/tist>
- Applied Ontology (AO)  
Web-site: <https://www.iospress.com/catalog/journals/applied-ontology>
- Artificial Intelligence (AIJ)  
Web-site: <https://www.sciencedirect.com/journal/artificial-intelligence>
- IEEE Internet Computing (IEEE IC)  
Web-site: <https://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=4236>
- Information Processing & Management (IP&M)  
Web-site: <https://www.sciencedirect.com/journal/information-processing-and-management>
- Information Systems (IS)  
Web-site: <https://www.sciencedirect.com/journal/information-systems>
- International Journal of Semantic Computing (IJSC)  
Web-site: <https://www.worldscientific.com/worldscinet/ijsc>
- International Journal of Software Engineering and Knowledge Engineering (IJSEKE)  
Web-site: <https://www.worldscientific.com/worldscinet/ijseke>
- Journal of Data Semantics (JDS)  
Web-site: <https://link.springer.com/journal/13740/volumes-and-issues>
- Journal of Information Science (JIS)  
Web-site: <https://journals.sagepub.com/home/jis>
- Journal of Web Semantics (JWS)  
Web-site: <https://www.sciencedirect.com/journal/journal-of-web-semantics>
- Natural Language Engineering (NLE)  
Web-site: <https://www.cambridge.org/core/journals/natural-language-engineering>
- PeerJ Computer Science  
Web-site: <https://peerj.com/computer-science/>

- Semantic Web Journal (SWJ)  
Web-site: <https://www.semantic-web-journal.net/>
- Umanistica Digitale (UD)  
Web-site: <https://umanisticadigitale.unibo.it/>

### 3.3 Conference / Workshop Organization

- General Chair of the 14th conference of Associazione Italiana per l'Informatica Umanistica e la Cultura Digitale (Italian DH association) (AIUCD 2025)  
Jun 11, 2025 - Jun 13, 2025  
Verona, Italy
- Chair of the special track on Knowledge and Natural Language Processing (KNLP) at the 40th ACM SIGAPP Symposium On Applied Computing (ACM-SAC2025)  
Mar 31, 2025 - Apr 4, 2025  
Catania, Italy  
<https://klp.fbk.eu>  
Note: The conference is of class 2 and has rating A- according to the GII-GRIN-SCIE (GGS) Conference Rating (agg. 2021).
- Programme chair of the 24th International Conference on Knowledge Engineering and Knowledge Management (EKAW-24)  
Nov 26, 2024 - Nov 28, 2024  
Amsterdam, NL  
<https://event.cwi.nl/ekaw2024/>  
Note: The conference is of class 3 and has rating B according to the GII-GRIN-SCIE (GGS) Conference Rating (agg. 2021).
- Organizing committee member of the Diversity, Accessibility and Inclusion in the Digital text and Cultural Heritage conference (DAIDH 2024)  
May 22, 2024 - May 24, 2024  
Verona, IT  
[https://daih.eu/events/2024.05.22\\_daidh/](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)  
Apr 8, 2024 - Apr 12, 2024  
Avila, Spain  
<https://klp.fbk.eu>  
Note: PC consisting of 40 members. The track received 17 submissions, with 8 accepted (4 full papers and 4 posters). The conference is of class 2 and has rating A- according to the GII-GRIN-SCIE (GGS) Conference Rating (agg. 2021).
- Chair of the special track on Knowledge and Natural Language Processing (KNLP) at the 38th ACM SIGAPP Symposium On Applied Computing (ACM-SAC2023)  
Mar 27, 2023 - Mar 31, 2023  
Tallinn, Estonia  
<https://doi.org/10.1145/3555776>  
Note: PC consisting of 37 members. The track received 29 submissions, with 10 accepted (7 full papers and 3 posters). The conference is of class 2 and has rating A- according to the GII-GRIN-SCIE (GGS) Conference Rating (agg. 2021).

- Chair of the special track on Knowledge and Natural Language Processing (KNLP) at the 37th ACM SIGAPP Symposium On Applied Computing (ACM-SAC2022)  
Apr 25, 2022 - Apr 29, 2022  
Brno, Czech Republic  
<https://doi.org/10.1145/3535434>  
Note: PC consisting of 39 members. The track received 26 submissions, with 10 accepted (7 full papers and 3 posters). The conference is of class 2 and has rating A- according to the GII-GRIN-SCIE (GGS) Conference Rating (agg. 2021).
- Chair of the special track on Knowledge and Language Processing (KLP) at the 36th ACM SIGAPP Symposium On Applied Computing (ACM-SAC2021)  
Mar 22, 2021 - Mar 26, 2021  
Gwangju, South Korea / Virtual  
<https://doi.org/10.1145/3462420>  
Note: PC consisting of 37 members. The track received 16 submissions, with 6 accepted (4 full papers and 2 posters). The conference is of class 2 and has rating A- according to the GII-GRIN-SCIE (GGS) Conference Rating (agg. 2021).
- Chair of the special track on Knowledge and Language Processing (KLP) at the 35th ACM SIGAPP Symposium On Applied Computing (ACM-SAC2020)  
Mar 30, 2020 - Apr 3, 2020  
Brno, Czech Republic / Virtual  
<https://doi.org/10.1145/3389659>  
Note: PC consisting of 39 members. The track received 33 submissions, with 10 accepted (8 full papers and 2 posters). The conference is of class 2 and has rating A- according to the GII-GRIN-SCIE (GGS) Conference Rating (agg. 2021).
- Chair of the special track on Knowledge and Language Processing (KLP) at the 34th ACM SIGAPP Symposium On Applied Computing (ACM-SAC2019)  
Apr 8, 2019 - Apr 12, 2019  
Limassol, Cyprus  
<https://doi.org/10.1145/3329375>  
Note: PC consisting of 44 members. The track received 41 submissions, with 14 accepted (10 full papers and 4 posters). The conference is of class 2 and has rating A- according to the GII-GRIN-SCIE (GGS) Conference Rating (agg. 2021).
- Chair of Doctoral Consortium of the 17th International Conference of the Italian Association for Artificial Intelligence (AI\*IA 2018)  
Nov 20, 2018 - Nov 23, 2018  
Trento, Italy  
<https://ceur-ws.org/Vol-2249/>  
Note: PC consisting of 35 members.
- Chair of the special track on Cognitive Computing (CoCo) at the 33rd ACM SIGAPP Symposium On Applied Computing (ACM-SAC2018)  
Apr 9, 2018 - Apr 13, 2018  
Pau, France  
<https://doi.org/10.1145/3258634>  
Note: PC consisting of 34 members. The track received 16 submissions, with 6 accepted (4 full papers and 2 posters). The conference is of class 2 and has rating A- according to the GII-GRIN-SCIE (GGS) Conference Rating (agg. 2021).



- Chair of the special track on Cognitive Computing (CoCo) at the 32nd ACM SIGAPP Symposium On Applied Computing (ACM-SAC2017)  
Mar 27, 2017 - Mar 31, 2017  
Marrakech, Morocco  
<https://doi.org/10.1145/3243944>  
Note: PC consisting of 34 members. The track received 17 submissions, with 6 accepted (4 full papers and 2 posters). The conference is of class 2 and has rating A- according to the GII-GRIN-SCIE (GGS) Conference Rating (agg. 2021).
- 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)  
May 31, 2015 - May 31, 2015  
Portoroz, Slovenia  
<https://ceur-ws.org/Vol-1363/>  
Note: PC consisting of 17 members.
- Chair of the Posters and Demos track of the 13th International Semantic Web Conference (ISWC2014)  
Oct 19, 2014 - Oct 23, 2014  
Riva del Garda, Italy  
<https://ceur-ws.org/Vol-1272/>  
Note: PC consisting of 91 members. The conference is of class 1 and has rating A+ according to the GII-GRIN-SCIE (GGS) Conference Rating (agg. 2021).

### 3.4 Conference / Workshop Program Committees

Member of more than 100 Scientific Committees of Conferences and Workshops of international importance:

- International Joint Conference on Artificial Intelligence (IJCAI): 2018, 2019, 2020
- AAAI Conference on Artificial Intelligence (AAAI): 2018, 2019, 2020, 2021, 2023, 2024
- The Web Conference (WWW) [formerly: International World Wide Web Conference]
  - Semantics and Knowledge (Research Track): 2019, 2020
  - Web Content Analysis, Semantics, and Knowledge (Research Track): 2018
  - Posters Track: 2016
- International Semantic Web Conference (ISWC)
  - Research Track: 2014, 2015, 2016, 2017, 2018, 2019 (SPC), 2020, 2021, 2022, 2023, 2024
  - Resource Track: 2017, 2020
  - InUse & Software Track: 2015
  - InUse Track: 2012, 2013, 2014
  - Doctoral Consortium: 2019
  - Journal Track: 2019
  - Posters and Demos Track: 2009, 2014, 2015
- 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: 2012, 2014, 2016, 2018
  - Ph.D. Symposium (+ Mentoring): 2012, 2014
- Joint Conference on Lexical and Computational Semantics (\*SEM)
  - Lexical resources, linked data, ontologies Track: 2017
- European/Extended Semantic Web Conference (ESWC)
  - Main PC: 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): 2012, 2013, 2014, 2015, 2016, 2017, 2018
- Language Resources and Evaluation Conference (LREC): 2016, 2018, 2020, 2022, 2024
- Conference on Language, Data and Knowledge (LDK): 2019, 2021, 2023
- International Conference of the Italian Association for Artificial Intelligence (AIxIA): 2023
- International Conference on Semantic Systems (I-SEMANTICS): 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018
- 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
- 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 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): 2013, 2014, 2015
- 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): 2012, 2013, 2014, 2015
- Workshop on the Contextual Representation of Objects and Events in Language (CREOL): 2017
- International Conference on Building and Exploring Web Based Environments (WEB): 2014, 2015, 2016
- International Conference on Advances in Semantic Processing (SEMAPRO): 2013, 2014, 2015, 2016
- Workshop on Natural Language for Artificial Intelligence (NL4AI): 2017
- International Workshop on Environmental Multimedia Retrieval: 2014, 2015
- Workshop on Semantic Web and Information Extraction (SWAIE): 2013, 2014
- 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

### **3.5 Scientific Consulting & Collaborations as expert**

- National Centres of Competence in Research (NCCRs) proposal reviewing for the Swiss National Science Foundation (SNSF)  
2024
- Project proposal reviewing for the Netherlands Organisation for Scientific Research (NWO)  
2020
- Scientific consulting for the "Compagnia di San Paolo" on the Artificial Intelligence in Digital Humanities topic  
2019

## **4 Teaching Activities**

### **4.1 Membership of Ph.D. Programme / School Committees**

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

- Teaching Committee for the Ph.D. Programme in Foreign Languages, Literatures and Linguistics  
(University of Verona)  
Mar 15, 2019 - Sep 30, 2021  
Ph.D. Cycles: 35, 36

## 4.2 Supervision of Ph.D. Theses

- Husnain Raza  
Propaganda Detection in Ukraine-Russia War Tweets: A CDA and Computational Perspective  
University of Verona  
since: Oct 1, 2021  
(with Maria Ivana Lorenzetti)
- Marco Bombieri  
Automatic extraction of robotic surgery actions from text and kinematic data  
University of Verona  
Oct 1, 2019 - Jul 3, 2023  
(with Paolo Fiorini)
- Antonio Arnieri  
Sound and Identity in Shakespeare's Theatre  
University of Verona  
Jan 1, 2019 - Jul 15, 2022  
(with Susanna Zinato)
- Roxane Segers  
Formalizing Events for Detecting Implicit Event Information in Natural Language Text  
Vrije Universiteit Amsterdam  
since: May 8, 2018  
(with Piek Vossen)
- Matteo Lorenzini  
Metadata Quality Evaluation in Cultural Heritage Domain  
University of Trento  
Nov 1, 2017 - Feb 15, 2022  
(with Sara Tonelli)
- Giulio Petrucci  
Learning to Learn Concept Descriptions  
University of Trento  
Nov 1, 2013 - Sep 21, 2018  
(with Chiara Ghidini)
- Francesco Corcoglioniti  
Frame-based Ontology Population from Text: Models, Systems and Applications  
University of Trento  
Nov 1, 2012 - Apr 21, 2016  
(with Luciano Serafini)

## 4.3 Membership of Ph.D. Examination Committees

- Patrizio Bellan  
Process Extraction from Text: a Reference Corpus, a Benchmark, and a Generative AI Approach

Free University of Bozen-Bolzano

Jul 2, 2024

- Pietro Dell'Oglio  
Episode detection and mining in real world applications  
University of Firenze, Pisa, and Siena  
Apr 18, 2024
- Marco Bombieri  
Automatic extraction of robotic surgery actions from text and kinematic data  
University of Verona  
Jul 3, 2023
- Matteo Lorenzini  
Metadata Quality Evaluation in Cultural Heritage Domain  
University of Trento  
Feb 15, 2022
- Yaroslav Nechaev  
Linking Knowledge Bases to Social Media Profiles  
University of Trento  
Apr 15, 2019

#### 4.4 Reviewing of Ph.D. Theses

- Patrizio Bellan  
Process Extraction from Text: a Reference Corpus, a Benchmark, and a Generative AI Approach  
Free University of Bozen-Bolzano  
2024

#### 4.5 Supervision of Master's / Bachelor's Degree Theses

- Master's degree in Computer Science, University of Trento:  
Rakebul Hasan (2009), Nahid E Mahbub (2009), Md Kamrul Hasan (2009), Musawar Saeed (2009), Matteo Matassoni (2014)
- LCT European Masters Program, University of Trento:  
Yiqing Liang (2017)
- Master's degree in Linguistics, University of Verona:  
Samaneh Eksir (2023)
- Master's degree in Languages for Communication in Tourism and Commerce, University of Verona:  
Beatrice Giacomazzi (2019), Francesca Tosato (2019), Silvia Cavazza Ceccato (2020), Michela Pecora (2020), Gaia Tacchini (2020), Irina Casian (2020), Erica Fattori (2020), Elisa Benedetti (2021)
- Bachelor's degree in Computer Science, University of Trento:  
Marco Spanò (2018)
- Bachelor's degree in Languages and Cultures for Publishing, University of Verona:  
Arianna Zanrossi (2020), Federica Pampalone (2020), Francesca Tirapelle (2020), Isabella Jaforte (2021), Martina Zanetti (2021), Ester Marchi (2021), Beatrice Vanoli (2021), Chiara Lazzari (2022), Daniela Xhupi (2022), Clarita Ferri (2022)

- Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona:  
Rebecca Guolo (2022), Amedeo Onnis (2022), Martina Caridi (2023), Madalina Stefan (2024), Samuele Nigrone (2024)
- Bachelor's degree in Languages and Cultures for Tourism and International Commerce:  
Francesca Laganà (2020), Lukasz Kolasowski (2020), Sara Turrini (2021)
- Bachelor's degree in Computer Science, University of Verona:  
Mattia Donà (2023)

#### **4.6 Supervision of Stages / Internship**

- post-Master Research Internships (FBK, Trento):  
Gianluca Maguolo (2018)
- LCT European Masters Program, University of Trento:  
Yiqing Liang (2017)
- Master's degree in Computer Science, University of Trento:  
Nahid E Mahbub (2009), Md Kamrul Hasan (2009)
- Bachelor's degree in Computer Science, University of Trento:  
Gianluca Apriceno (2015), Enrico Magnago (2015), Alessio Scussel (2016)
- Bachelor's degree in Languages and Literatures for Publishing and Digital Media, University of Verona:  
Jasmine Touarsa (2021), Marta Cafà (2021)
- Bachelor's degree in Computer Science, University of Verona:  
Mattia Donà (2023)
- Bachelor's degree in Bioinformatics, University of Verona:  
Hazem Mohamed Ahmed (2023)
- Academic tutor for external internships of students at the University of Verona.:  
about 50 students (up to now)

#### **4.7 Organization of teaching activities and summer / winter school**

- 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)".

Dates: Jan 11, 2021 - Jan 15, 2021

Hours: 22

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

## 4.8 Teaching

### 4.8.1 Teaching in Ph.D. programmes

- Academic Year 2022-2023:
  - Python programming language  
Hours: 16, CFU: 4  
Ph.D. School, University of Verona, Italy
- 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, Italy
- 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, Italy
  - 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, Italy
  - Working with Textual Files: Encodings and Regular Expressions  
Hours: 4, CFU: 1  
Ph.D. programme in Foreign Literatures, Languages and Linguistics, University of Verona, Italy
- 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, Italy
  - 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, Italy
- 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, Italy



#### 4.8.2 Teaching in Professional Master's programmes

- 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, Italy
- 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, Italy

#### 4.8.3 Teaching in Master's / Bachelor's degree programmes

- 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, Italy
  - 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, Italy
  - 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, Italy
  - Electronic commerce  
Hours: 36, CFU: 6, SSD: INFO-01/A  
Master's degree in Languages for Communication in Tourism and Commerce, University of  
Verona, Italy
- 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, Italy
  - 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, Italy
  - 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, Italy

- Electronic commerce  
Hours: 36, CFU: 6, SSD: INF/01  
Master's degree in Languages for Communication in Tourism and Commerce, University of Verona, Italy
- 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, Italy
  - 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, Italy
  - 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, Italy
  - Electronic commerce  
Hours: 36, CFU: 6, SSD: INF/01  
Master's degree in Languages for Communication in Tourism and Commerce, University of Verona, Italy
- 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, Italy
  - 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, Italy
  - 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, Italy
- 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, Italy
  - 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, Italy

- Digital Humanities  
Hours: 36, CFU: 6, SSD: INF/01  
Bachelor's degree in Languages and Cultures for Publishing, University of Verona, Italy
- 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, Italy
  - Digital Humanities  
Hours: 36, CFU: 6, SSD: INF/01  
Bachelor's degree in Languages and Cultures for Publishing, University of Verona, Italy
  - Electronic commerce  
Hours: 36, CFU: 6, SSD: INF/01  
Master's degree in Languages for Communication in Tourism and Commerce, University of Verona, Italy
- 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, Italy
  - 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, Italy

#### 4.8.4 Other Lectureship Activities

- Language Resources and Ontologies (co-lecturer: Dr. Sara Tonelli) - Master Degree in Filosofia e linguaggi della modernità, 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)

## 5 Third Mission / Public Engagement

- Co-organization of public event: "Il caso ChatGPT - Tra prospettive di sviluppo e di regolamentazione dell'IA. Un approccio multidisciplinare". Interdisciplinary meeting organized by the

Departments of Legal Sciences, Computer Science, Human Sciences, Foreign Languages and Literatures and Cultures and Civilizations of the University of Verona, with the approach of addressing with a multidisciplinary method the important legal, technical, ethical and linguistic issues posed by the case "ChatGPT", for the development and regulation of AI.

Web-site: <https://www.dlls.univr.it/?ent=iniziativa&id=11252>

Date: Jun 21, 2023

## **6 Institutional Appointments and Selection Committees**

### **6.1 Department appointments**

- Coordination of IT technicians within the department for the development of the departmental digital platforms  
Dec 28, 2018 - Dec 31, 2023
- Member of the research committee of the department  
since: Dec 15, 2021

### **6.2 Institutional teaching appointments**

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

### **6.3 Selection Committees**

- Associate professors (Computer Science): 2023pa18002 (University of Verona)
- Fixed-term researchers (Computer science): PON\_INN\_RTDA\_2021\_35 (University of Naples Federico II)
- Fixed-term researchers (Computer science) - Research Centers: PNRR\_IDA\_FAIR\_2023 (Bruno Kessler Foundation)
- Research grants: AdR3339/19 (University of Verona), AdR3607/20 (University of Verona), AdR3634/20 (University of Verona), AdR3792/21 (University of Verona), AdR4315/23 (University of Verona), AdR4308/23 (University of Verona)

- Collaboration contracts: 4/2020 (University of Verona), 5/2020 (University of Verona), 6/2020 (University of Verona), 12/2021 (University of Verona), 7/2022 (University of Verona)
- IT personnel: 2019ctatd001 (University of Verona), cod 2019ctatd006 (University of Verona), 2020ctatd005 (University of Verona), 2022ctatd002 (University of Verona), 2023cta009 (University of Verona)