

Valentina Presutti, PhD
Curriculum Vitae

General Information

Full name: Valentina Presutti

Date Birth: September 28th, 1974)

Place of Birth Pescara (Italy)

Citizenship Italian

Permanent Address: via Sant'Alò 3, Bologna (Italy)

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Spoken Languages: Italian: native language; English: fluent; French: good

Summary of Scientific Achievements

ORCID: <http://orcid.org/0000-0002-9380-5160>

Google scholar: <https://scholar.google.fr/citations?user=dvNHkAwAAAAJ>

Scopus ID: 55885160000

Total Citations	2401 (Scopus), 6575 (Scholar)
H index*	26 (Scopus), 41 (Scholar)

Short bio

I am a Computer Scientist (MSc from the University of Bologna, 2002). I developed my master thesis in the scope of software engineering. During this experience I started my research on ontology design methodologies and on their application in software development processes, with specific attention to web portals. After my graduation, I obtained a doctoral scholarship from the University of Bologna, and I continued my research on the Semantic Web focusing on the interoperability between semantic annotation languages, particularly addressing the problem of identify on the Web. I defended my PhD in 2006 at the University of Bologna and immediately after, I started my collaboration with the Institute of Cognitive Sciences and Technologies (ISTC) of CNR in Rome as a post-doctoral researcher, while continuing to collaborate with the Department of Computer Science (Dipartimento di Informatica: Scienze e Ingegneria - DISI) of University of Bologna.

I am an Associate Professor at University of Bologna, since July 2021 and a CNR Associate Researcher. Between 2010 and 2019 I was a permanent researcher at CNR and then I moved to the University of Bologna as a Senior Assistant Professor. In 2008 I co-founded the Semantic Technology Laboratory (STLab) at ISTC-CNR that I coordinate since 2015. It currently supports twenty young researchers and collaborators, with external funding. My research activity spans different areas of Artificial Intelligence such as: ontology design and reuse, linked open data, neuro-symbolic architectures, knowledge extraction, natural language understanding, social and assistive robotics. In 2016 I co-founded a startup company (BUP s.r.l) that provides services for engineering organisational knowledge.

I have more than 15 years of experience in managing research teams and their projects, as well as in teaching and collaborating with academic, industrial, and public administration organisations. I have been the PI of the EU H2020 project "Polifonia: a digital harmoniser for musical heritage knowledge" (3M , 40 months, started in January 2021, 10 partners), which develops AI technologies for supporting research, valorisation, and preservation of musical heritage. I am the PI of WP7 of the PNRR FAIR, on "Human and Artificial Creativity". I have coordinated and contributed to multiple software projects (see STLab websites¹). I have participated as researcher in many European and Italian projects, and in some of them I acted as scientific responsible. From 2015 to 2018 I have been the scientific coordinator of the CNR unit of the H2020 MARIO project², leading the research on robot personalised semantic interaction. I am an elected board member of the Association for Ontology Design and Patterns³ (ODPA), which runs annual workshops and tutorials and engages in various activities for promoting ontology design quality and patterns. In 2008 I have created a catalogue of ontology design patterns, associated with a semantic web portal where such patterns can be proposed, discussed, and certified⁴. Today this portal is the reference resource for the ODPa and its community.

Since 2015 I co-direct the "International Semantic Web Research Summer School", a reference event for international PhD students of the Semantic Web community. I am the Editor in Chief of the Journal of Web Semantics. I am Editor in Chief of the Journal of Web Semantics (Elsevier), since 2023. I have been adjunct professor at University of Bologna, at University of

¹<http://stlab.istc.cnr.it/stlab/tools/> and <http://stlab.istc.cnr.it/stlab/projects/>

²<http://www.mario-project.eu/portal/>

³<http://ontologydesignpatterns.org/wiki/ODPA>

⁴<http://ontologydesignpatterns.org>

Rome “La Sapienza” and at Paris 13 University. I have worked as research/technology advisor for Governmental organisations such as the “Food and Agriculture Organisation of UN” (FAO), the “Agency for the digital Italy” (DigitPA, now AgID), the Ministry of Cultural Heritage and Tourism Activity (MIBACT) as well as for academic organisations such as the Italian “Consorzio Inter-universitario Nazionale per l’Informatica” (CINI).

I am (co-)author of 150+ international scientific publications on ontology engineering, semantic web and linked data, knowledge extraction and machine reading.

I co-organised the Dagstuhl seminar “Knowledge Graphs: New Directions for Knowledge Representation on the Semantic Web” (held in September 9th-14th, 2018).

I serve the community with scientific and organisational roles in international scientific events, and as reviewer for conferences and journals in the semantic web and ontology engineering domains. Currently I am working on different areas: on one hand I continue working on ontology design patterns and knowledge extraction, with special focus on data integration and linked open data, always with a software engineering perspective. On the other hand, I am engaged in research and development of methods and tools for natural language understanding, language grounding and common-sense knowledge extraction.

Education

Type: Italian Laurea (Master) Degree (summa cum laude) in Computer Science

Year: 2002

Institution: University of Bologna

Dissertation title: “An ontology-driven approach for Web application development”

Supervisor: Professor Paolo Ciancarini

Notes: During my master thesis preparation, I got into the Semantic Web field (at its very beginning) and started working on how to leverage ontologies for web applications. This topic will revive during my post-doc when I developed ontology development methods based on ontology design patterns, creating the first and (currently) largest catalogue of ontology design patterns on the Web (<http://www.ontologydesignpatterns.org>).

Type: Ph.D. in Computer Science

Year: 2006

Institution: University of Bologna

Dissertation Title: “Interoperability of Annotation Languages in Semantic Web Applications Design”

Supervisor: Professor Paolo Ciancarini

Notes: Collaboration with W3C (Semantic Web Best Practices and Deployment Working group). I have contributed to define a formal model for supporting the interoperability between Topic Maps and RDF. One result of the thesis, with specific focus on the problem of identity of resources on the Web, is reported in journal articles describing an ontology for identities and resources on the web.

Appointments

Start	End	Institution	Position
July 2021	present	University of Bologna	Associate Professor
September 2019	July 2021	University of Bologna	Senior Assistant Professor (tenure-track position)
July 2010	August 2019	Consiglio Nazionale delle Ricerche - ISTC	Researcher (permanent position)
June 2008	June 2010	Consiglio Nazionale delle Ricerche - ISTC	Researcher (temporary position)
February 2006	May 2008	Consiglio Nazionale delle Ricerche - ISTC	Post-doc Researcher (assegno di ricerca)

Teaching Experience (Didattica)

Courses with full responsibility

The duration is indicated in hours per each academic year. Temporal intervals indicate the starting year of the first academic year and the ending year of the last academic year when I gave the course.

Bachelor and master courses

Year	Institution	Lecture/Course
2021-present	University of Bologna, Italy	Knowledge Engineering (in English, MSc in Artificial Intelligence), 40 hours (yearly)
2020-present	University of Bologna, Italy	Project Work in Knowledge Engineering (in English, MSc in Artificial Intelligence), 75 hours*
2020-2021	University of Bologna, Italy	Knowledge Engineering (in English, MSc in Artificial Intelligence), 18 hours
2020-2021	University of Bologna, Italy	Laboratorio informatica e scrittura accademica (in Italian, Laurea in Lingue e letterature straniere), 50 hours **
2020-present	University of Bologna, Italy	Abilitá informatiche (in Italian, Laurea Magistrale in Letterature moderne, comparate e postcoloniali), 30 hours **
2019-present	University of Bologna, Italy	Computer Studies and Human Sciences (in English, MSc in Language, society and communication), 30 hours
2019-present	University of Bologna, Italy	Information Technology Skills (in English, MSc in Language, society and communication), 30 hours
2018-2020	University of Bologna, Italy	Social Robots (in English, MSc in Computer Science), 36 hours
2018-2019	University of Bologna, Italy	Programming (in English, BSc in Genomics), 72 hours

Year	Institution	Lecture/Course
2016 - 2018	Università Telematica Internazionale UNINETTUNO, Roma, Italy	Information Management (in English, BSc in Scienze delle Comunicazione), 40 hours (per a/y)
2014-2015	University of Paris 13, Paris, France	A module in the class of Knowledge Representation (in French, MSc in Informatique), 12 hours
2012-2013	University of Bologna, Italy	Knowledge Management (in Italian, MSc in Scienze di Internet), 40 hours
2010-2012	University of Bologna, Italy	Business Process Management and data mining (in Italian, MSc in Scienze di Internet), 40 hours (per a/y)
2008-2010	University of Rome “La Sapienza”, Italy	Software Engineering (in English, MSc in Ingegneria Informatica), 60 hours (per a/y)
2007-2008	University of Rome “La Sapienza”, Italy	Software Engineering (in Italian, BCs in Ingegneria Informatica) 60 hours

* This is an internship-like activity, no lectures are involved.

** These courses are performed in blended learning with the support of two tutors. I have the

responsibility of exams and tutor coordination responsibility.

Courses for PhD students (as Lecturer)

Year	Institution	Lecture/Course
2009 - 2013	Summer School on Ontological Engineering and the Semantic Web, at Cercedilla, Spain	Lecture and mentoring on Ontology Design and Semantic technologies (in English), 20 hours
2008 - 2013	PhD School of the Computer Science Department of University of Bologna	Lecture on Computational Ontologies (in Italian), 20 hours (per a/y)
2012	PhD program in Computer Science of Linköping University	Lecture on Semantic Content Management Systems (in English), 6 hours

Additional teaching and mentoring service

Teaching assistant (tutor)

2007 - 2008, Teaching assistant for hands-on sessions at the Summer School on Ontological Engineering and the Semantic Web, at Cercedilla, Spain

Topic: Ontology Design

Duration: 20 hours

Frequency: yearly

2003 - 2007, Teaching assistant (tutor) at University of Bologna

Topic: Paradigmi e Laboratorio (in Italian, BCs in Computer Science)

Duration: 50 hours

Frequency: yearly

Supervision of Master and PhD Students

2003 - present, Co-supervisor of master theses on topics in the scope of software engineering and knowledge engineering. The most recent ones are:

- (2019) Carlo Stomeo (Computer Science, University of Bologna) on Machine Learning applied to Cyber Security.
- (2020) Davide Montanari (Computer Science, University of Bologna) on Semantically-aware text generation.

Supervision of PhD students

2023 - present, Supervisor of Beatrice Fiumanó, PhD student at University of Bologna

Topic: Comparative discourse analysis in the time of conflict

Defense planned in 2023

2023 - present, Supervisor of Nicolas Lazzari, PhD student at University of Bologna

Topic: Co-operative and explainable generative AI for music

Defense planned in 2023

2022 - present, Supervisor of Arianna Graciotti, PhD student at University of Bologna
Topic: Knowledge extraction for advanced question answering
Defense planned in 2023

2022 - present, Supervisor of Andrea Poltronieri, PhD student at University of Bologna
Topic: Music Similarity
Defense planned in 2023

2020 - 2024, Supervisor of Delfina Pandiani, PhD student at University of Bologna
Topic: Automatic recognition of social concepts evoked by art images
Defense planned in 2023

2019 - 2023, Supervisor of Fiorela Ciroku, PhD student at University of Bologna
Topic: Integration and testing of distributed knowledge graphs
Defense planned in 2022

2019 - 2023, Supervisor of Valentina Carriero, PhD student at University of Bologna
Topic: Ontology pattern detection in knowledge graphs
Defense planned in 2022

2015-2019, Co-tutor (with Prof. Ciancarini) of Luigi Asprino, PhD student at University of Bologna
Topic: Knowledge integration based on frames in human-robot interaction scenarios
Defended on April 3rd, in 2019

2011 - 2014, Co-tutor (with Prof. Ciancarini) of Andrea Giovanni Nuzzolese, PhD student at University of Bologna
Topic: Knowledge Pattern extraction from the Web and their usage for exploratory search
Defended on May 19th, 2014

2010 - 2013, Co-tutor (with Prof. Ciancarini) of Alessandro Adamou, PhD student at University of Bologna
Topic: An architecture for scalable ontology networks
Defended on April 8th, 2013

Supervisions (role: supervisor or scientific responsible)

Dr. Luigi Asprino (since 2023 - present) RTD-A LILEC_INF/01

Dr. Rocco Tripodi (since 2021 - 2023) RTD-A n.7525 LILEC_INF/01

Maria Chiara Frangipane (since 2021 - present) ASSEGNO DI RICERCA n. 298-2021 "Sviluppo di ontologie e knowledge graph per il patrimonio culturale - ISTC-AdR-298-2021-CT

Andrea Poltronieri (since 2021 - present) ASSEGNO DI RICERCA Protocollo num. 193 Rep. 17 Fascicolo 6147164 "Mining music patterns" - LILEC Università di Bologna

Dr. Alessandro Russo (since 2015 - 2020)

ASSEGNO DI RICERCA N 219/2015 - Tecnologie semantiche per la gestione della conoscenza e dei processi associati - ISTC-AdR-219-2015-RM

Valentina Anita Carriero (Dec. 2017 - 2019)

ASSEGNO DI RICERCA N 241/2017 - Ontologie, linked data, grafi di conoscenza e tecnologie semantiche - ricerca nell'ambito del progetto "STLab" - ISTC-AdR-241-2017-RM

Dr. Mehwish Alam (Nov. 2017 - 2019)

ASSEGNO DI RICERCA N 237/2017 - Cognitive, Linguistic, and Situational Frames in the context of natural language understanding, knowledge extraction and sentiment analysis - ricerca nell'ambito dei progetti "Team Digitale" e "MARIO" - ISTC-AdR-237-2017-RM

Dr. Andrea Giovanni Nuzzolese (since 2015 - 2018)

ART. 23 - 25/2015-RM - svolgimento delle attivit previste nell'ambito del programma di ricerca della commessa ICT.P08.015 Tecnologie Semantiche - ISTC-25-2015-RM - Concorso Art. 23

Dr. Piero Conca (1 year)

ASSEGNO DI RICERCA N 227/2015 - ricerca nell'ambito della commessa Tecnologie Semantiche e Prisma - ISTC-AdR-227-2015-RM-CT

Dr. Sergio Consoli (1.5 years)

ASSEGNO DI RICERCA N 218/2014 - Tecnologie semantiche e open data - ISTC-AdR-218-2014-CT

Dr. Andrea Giovanni Nuzzolese (1 year)

ASSEGNO DI RICERCA N 217/2014 - Estrazione e scoperta di conoscenza da sorgenti di dati eterogenee - ISTC-AdR-2176-2014-RM

Dr. Giorgia Lodi (3 years)

ASSEGNO DI RICERCA N 213/2014 - Tecnologie semantiche e open data - ISTC-AdR-213-2014-RM

Alberto Musetti (2 years)

ASSEGNO DI RICERCA 162/2011 - Tecnologie semantiche basate su Knowledge Patterns applicate alla gestione e organizzazione dei contenuti - ISTC-AdR-162-2011-RM

Research Activities

Research Interests

Knowledge graphs, ontology engineering with ontology design patterns, generative AI, neuro-symbolic architectures, empirical knowledge engineering, natural language understanding, cognitive and human computing, common sense representation and reasoning, assistive and social robotics, semantic web and linked data, knowledge extraction and summarisation, software engineering.

Full list of publications

Journal Articles

- [1] Francesco Alfieri, Luigi Asprino, Nicolas Lazzari, and Valentina Presutti. “Creative influence prediction using graph theory”. In: *Intelligenza Artificiale* 18.1 (2024), pp. 35–49. DOI: 10.3233/IA-240029. URL: <https://doi.org/10.3233/IA-240029>.
- [2] Fiorela Ciroku, Jacopo de Berardinis, Jongmo Kim, Albert Meroño-Peñuela, Valentina Presutti, and Elena Simperl. “RevOnt: Reverse engineering of competency questions from knowledge graphs via language models”. In: *Journal of Web Semantics* 82 (2024), p. 100822. DOI: 10.1016/J.WEBSEM.2024.100822. URL: <https://doi.org/10.1016/j.websem.2024.100822>.
- [3] Fiorela Ciroku, Stefano De Giorgis, Aldo Gangemi, Delfina Sol Martinez Pandiani, and Valentina Presutti. “Automated multimodal sensemaking: Ontology-based integration of linguistic frames and visual data”. In: *Comput. Hum. Behav.* 150 (2024), p. 107997. DOI: 10.1016/J.CHB.2023.107997. URL: <https://doi.org/10.1016/j.chb.2023.107997>.
- [4] Luigi Asprino and Valentina Presutti. “Observing LOD: Its Knowledge Domains and the Varying Behavior of Ontologies Across Them”. In: *IEEE Access* 11 (2023), pp. 21127–21143. DOI: 10.1109/ACCESS.2023.3250105. URL: <https://doi.org/10.1109/ACCESS.2023.3250105>.
- [5] Jacopo de Berardinis, Albert Merono-Penuela, Andrea Poltronieri, and Valentina Presutti. “ChoCo: a Chord Corpus and a Data Transformation Workflow for Musical Harmony Knowledge Graphs”. In: *Sci Data*. 10 (2023), p. 641. URL: <https://doi.org/10.1038/s41597-023-02410-w>.
- [6] Luigi Asprino, Paolo Ciancarini, Andrea Giovanni Nuzzolese, Valentina Presutti, and Alessandro Russo. “A reference architecture for social robots”. In: *J. Web Semant.* 72 (2022), p. 100683. DOI: 10.1016/J.WEBSEM.2021.100683. URL: <https://doi.org/10.1016/j.websem.2021.100683>.
- [7] Matthew Studley, Valentina Presutti, Daniele Nardi, and Sarah Carter. “Benchmarking robots in smart cities”. In: *XRDS* 28.3 (2022), pp. 20–25. DOI: 10.1145/3522686. URL: <https://doi.org/10.1145/3522686>.

- [8] Mehwish Alam, Aldo Gangemi, **Valentina Presutti**, and Diego Reforgiato Recupero. “Semantic role labeling for knowledge graph extraction from text”. In: *Progress in Artificial Intelligence* (2021). Open Access, online publication. DOI: <https://doi.org/10.1007/s13748-021-00241-7>.
- [9] Erik Boetto, Maria Pia Fantini, Aldo Gangemi, Davide Golinelli, Manfredi Greco, Andrea Giovanni Nuzzolese, **Valentina Presutti**, and Flavia Rallo. “Using altmetrics for detecting impactful research in quasi-zero-day time-windows: the case of COVID-19”. In: *Scientometrics* 126.2 (2021), pp. 1189–1215. DOI: [10.1007/s11192-020-03809-7](https://doi.org/10.1007/s11192-020-03809-7).
- [10] Valentina Anita Carriero, Aldo Gangemi, Maria Letizia Mancinelli, Andrea Giovanni Nuzzolese, **Valentina Presutti**, and Chiara Veninata. “Pattern-based design applied to cultural heritage knowledge graphs”. In: *Semantic Web* 12.2 (2021), pp. 313–357. DOI: [10.3233/SW-200422](https://doi.org/10.3233/SW-200422).
- [11] Paolo Ciancarini, Andrea Giovanni Nuzzolese, **Valentina Presutti**, and Daniel Russo. “SQuAP-Ont: an Ontology of Software Quality Relational Factors from Financial Systems”. In: *Semantic Web* 11 (6 2020), pp. 1007–1021. DOI: [10.3233/SW-200372](https://doi.org/10.3233/SW-200372).
- [12] Silvio Peroni, Paolo Ciancarini, Aldo Gangemi, Andrea Giovanni Nuzzolese, Francesco Poggi, and **Valentina Presutti**. “The practice of self-citations: a longitudinal study”. In: *Scientometrics* 123.1 (2020), pp. 253–282. DOI: [10.1007/s11192-020-03397-6](https://doi.org/10.1007/s11192-020-03397-6). URL: <https://doi.org/10.1007/s11192-020-03397-6>.
- [13] Andrea Giovanni Nuzzolese, Paolo Ciancarini, Aldo Gangemi, Silvio Peroni, Francesco Poggi, and Valentina Presutti. “Do altmetrics work for assessing research quality?” In: *Scientometrics* 118.2 (2019), pp. 539–562. DOI: [10.1007/s11192-018-2988-z](https://doi.org/10.1007/s11192-018-2988-z).
- [14] Francesco Poggi, Paolo Ciancarini, Aldo Gangemi, Andrea Giovanni Nuzzolese, Silvio Peroni, and **Valentina Presutti**. “Predicting the results of evaluation procedures of academics”. In: *PeerJ Computer Science* 7 (2019), e27582. DOI: [10.7287/peerj.preprints.27582v1](https://doi.org/10.7287/peerj.preprints.27582v1). URL: <https://doi.org/10.7287/peerj.preprints.27582v1>.
- [15] Alessandro Russo, Grazia D’Onofrio, Aldo Gangemi, Francesco Giuliani, Misael Mongioví, Francesco Ricciardi, Francesca Greco, Filippo Cavallo, Paolo Dario, Daniele San Carlo, Valentina Presutti, and Antonio Greco. “Dialogue Systems and Conversational Agents for Patients with Dementia: The Human-Robot Interaction”. In: *Rejuvenation Research* 22.2 (2019), pp. 109–120. DOI: [10.1089/rej.2018.2075](https://doi.org/10.1089/rej.2018.2075).
- [16] Aldo Gangemi, **Valentina Presutti**, Diego Reforgiato Recupero, Andrea Giovanni Nuzzolese, Francesco Draicchio, and Misael Mongioví. “Semantic Web Machine Reading with FRED”. In: *Semantic Web* 8.6 (2017), pp. 873–893.
- [17] Andrea Giovanni Nuzzolese, **Valentina Presutti**, Aldo Gangemi, Silvio Peroni, and Paolo Ciancarini. “Aemoo: Linked Data exploration based on Knowledge Patterns”. In: *Semantic Web* 8.1 (2017), pp. 87–112.
- [18] Aldo Gangemi, Diego Reforgiato Recupero, Misael Mongioví, Andrea Giovanni Nuzzolese, and **Valentina Presutti**. “Identifying motifs for evaluating open knowledge extraction on the Web”. In: *Knowl.-Based Syst.* 108 (2016), pp. 33–41.

- [19] Misael Mongioví, Diego Reforgiato Recupero, Aldo Gangemi, **Valentina Presutti**, and Sergio Consoli. “Merging open knowledge extracted from text with MERGILO”. In: *Knowl.-Based Syst.* 108 (2016), pp. 155–167.
- [20] Diego Reforgiato Recupero, Mario Castronovo, Sergio Consoli, Tarcisio Costanzo, Aldo Gangemi, Luigi Grasso, Giorgia Lodi, Gianluca Merendino, Misael Mongioví, **Valentina Presutti**, Salvatore Davide Rapisarda, Salvo Rosa, and Emanuele Spampinato. “An Innovative, Open, Interoperable Citizen Engagement Cloud Platform for Smart Government and Users’ Interaction”. In: *Journal of the Knowledge Economy* 7 (2 2016), pp. 388–412. DOI: 10.1007/s13132-016-0361-0.
- [21] **Valentina Presutti**, Andrea Giovanni Nuzzolese, Sergio Consoli, Aldo Gangemi, and Diego Reforgiato Recupero. “From hyperlinks to Semantic Web properties using Open Knowledge Extraction”. In: *Semantic Web* 7.4 (2016), pp. 351–378.
- [22] Diego Reforgiato Recupero, **Valentina Presutti**, Sergio Consoli, Aldo Gangemi, and Andrea Giovanni Nuzzolese. “Sentilo: Frame-Based Sentiment Analysis”. In: *Cognitive Computation* 7.2 (2015), pp. 211–225.
- [23] Aldo Gangemi, **Valentina Presutti**, and Diego Reforgiato Recupero. “Frame-Based Detection of Opinion Holders and Topics: A Model and a Tool”. In: *IEEE Comp. Int. Mag.* 9.1 (2014), pp. 20–30.
- [24] Harry Halpin and **Valentina Presutti**. “The identity of resources on the Web: An ontology for Web architecture”. In: *Applied Ontology* 6.3 (2011), pp. 263–293.
- [25] Aldo Gangemi and **Valentina Presutti**. “Towards a pattern science for the Semantic Web”. In: *Semantic Web* 1.1-2 (2010), pp. 61–68.
- [26] **Valentina Presutti** and Aldo Gangemi. “Identity of Resources and Entities on the Web”. In: *Int. J. Semantic Web Inf. Syst.* 4.2 (2008), pp. 49–72.

Conference and Workshop papers

- [27] Arianna Graciotti, Valentina Presutti, and Rocco Tripodi. “Latent vs Explicit Knowledge Representation: How ChatGPT Answers Questions about Low-Frequency Entities”. In: *Proceedings of the 2024 Joint International Conference on Computational Linguistics, Language Resources and Evaluation, LREC/COLING 2024, 20-25 May, 2024, Torino, Italy*. Ed. by Nicoletta Calzolari, Min-Yen Kan, Véronique Hoste, Alessandro Lenci, Sakriani Sakti, and Nianwen Xue. ELRA and ICCL, 2024, pp. 10172–10185. URL: <https://aclanthology.org/2024.lrec-main.888>.
- [28] Delfina Sol Martinez Pandiani, Nicolas Lazzari, and Valentina Presutti. “Stitching Gaps: Fusing Situated Perceptual Knowledge with Vision Transformers for High-Level Image Classification”. In: *Knowledge Graphs in the Age of Language Models and Neuro-Symbolic AI - Proceedings of the 20th International Conference on Semantic Systems, 17-19 September 2024, Amsterdam, The Netherlands*. Ed. by Angelo A. Salatino, Mehwish Alam, Femke Ongenae, Sahar Vahdati, Anna Lisa Gentile, Tassilo Pellegrini, and Shufan Jiang. Vol. 60. Studies on the Semantic Web. IOS Press, 2024, pp. 68–87. DOI: 10.3233/SSW240008. URL: <https://doi.org/10.3233/SSW240008>.

- [29] Jacopo de Berardinis, Valentina Anita Carriero, Nitisha Jain, Nicolas Lazzari, Albert Meroño-Peñuela, Andrea Poltronieri, and Valentina Presutti. “The Polifonia Ontology Network: Building a Semantic Backbone for Musical Heritage”. In: *The Semantic Web - ISWC 2023 - 22nd International Semantic Web Conference, Athens, Greece, November 6-10, 2023, Proceedings, Part II*. Ed. by Terry R. Payne, Valentina Presutti, Guilin Qi, María Poveda-Villalón, Giorgos Stoilos, Laura Hollink, Zoi Kaoudi, Gong Cheng, and Juanzi Li. Vol. 14266. Lecture Notes in Computer Science. Springer, 2023, pp. 302–322. DOI: 10.1007/978-3-031-47243-5\17. URL: https://doi.org/10.1007/978-3-031-47243-5%5C_17.
- [30] Jacopo de Berardinis, Valentina Anita Carriero, Albert Meroño-Peñuela, Andrea Poltronieri, and Valentina Presutti. “The Music Meta Ontology: A Flexible Semantic Model for the Interoperability of Music Metadata”. In: *Proceedings of the 24th International Society for Music Information Retrieval Conference, ISMIR 2023, Milan, Italy, November 5-9, 2023*. Ed. by Augusto Sarti, Fabio Antonacci, Mark Sandler, Paolo Bestagini, Simon Dixon, Beici Liang, Gaël Richard, and Johan Pauwels. 2023, pp. 859–867. DOI: 10.5281/ZENODO.10265423. URL: <https://doi.org/10.5281/zenodo.10265423>.
- [31] Jacopo de Berardinis, Albert Meroño-Peñuela, Andrea Poltronieri, and Valentina Presutti. “The Harmonic Memory: a Knowledge Graph of harmonic patterns as a trustworthy framework for computational creativity”. In: *Proceedings of the ACM Web Conference 2023, WWW 2023, Austin, TX, USA, 30 April 2023 - 4 May 2023*. Ed. by Ying Ding, Jie Tang, Juan F. Sequeda, Lora Aroyo, Carlos Castillo, and Geert-Jan Houben. ACM, 2023, pp. 3873–3882. DOI: 10.1145/3543507.3587428. URL: <https://doi.org/10.1145/3543507.3587428>.
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Other professional activity

I contributed to the “Semantic Web Best Practices and Deployment” Working group of the World Wide Web Consortium from 2004 to 2006. In particular I was part of the task force “RDF/Topic Maps Interoperability”. In 2015 I collaborated with Sinergis s.r.l. for engineering two ontologies about (i) provisional balance and (ii) project funding schemes, for public administrations. I have coordinated the training activity for the NeOn foundation between 2010 and 2013. Between 2009 and 2010, I have been the project manager, for the Food and Agricultural Organization of the United Nations (FAO) in Rome, for the development of an agricultural knowledge portal based on the AGRIS repository. In 2008, I have been a consultant for Centro Nazionale per l’Informatica nella Pubblica Amministrazione (CNIPA) in Rome, for the design and evaluation of ontologies in the legal domain. In 2006 I collaborated with I-Tel s.r.l. (Rome) as expert of ontology design based on database re-engineering and semantic web technologies, for the development of an application for workflow support (Easy4plan). During my PhD studies (2004-2006) I collaborated with “Portale dell’Ateneo di Bologna” (University of Bologna) for the design of an ontology for the categorisation of documents, and for experimenting semantic technologies on its main search engine.