Curriculum vitae

PERSONAL INFORMATION

Luigi Asprino

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- ✉ luigi.asprino@gmail.com
- ⬦ luigiasprino.it
- https://github.com/luigi-asprino
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Gender Male | Date of birth 19 February 1988 | Nationality Italian

Habilitation: Information Engineering (since 2020)
ORCID 0000-0003-1907-0677
SCOPUS ID 57191745706
Web Of Science ResearcherID ABW-9127-2022
Google Scholar https://scholar.google.com/citations?user=HM_1HQUAAAAJ

Bibliometric Record

	Google Scholar	Scopus
Number of publications	39	26
Number of citations	482	212
H-Index	12	7

Last update: July 25, 2024

CURRENT POSITION

Assistant Professor

Department of Modern Languages, Literatures, and Cultures - University of Bologna

Associate Researcher

Institute of Cognitive Sciences and Technologies (ISTC) - National Research Council (CNR) - Italy

Adjunct Professor

Istituto di Arte Applicata and Design (IAAD) - Bologna, Italy

SHORT BIO

I'm an Assistant Professor at the Department of Modern Languages, Literatures, and Cultures of the University of Bologna and an Associate Researcher at Institute of Cognitive Sciences and Technologies (ISTC) of the Italian National Research Council (CNR). I teach Semantic Web, Computer Science and History of Digital Technologies for the Bachelor's degree in Digital Communication Design at the IAAD.

I obtained my master's degree in computer engineering at the Sapienza University of Rome in 2014. I developed my master's thesis under the supervision of Professor Giuseppe De Giacomo, in the scope of service integration. During this experience, I started my research on formal semantics, particularly their application in the automatic integration of services whose behaviour is formally described.

A few months later, I joined the Institute of Cognitive Science and Technology of the CNR in Rome as a junior research fellow. During this period I continued the research on formal semantics but from a different standpoint, i.e. designing ontologies in cultural heritage and agri-food domains (cf. Cultural-ON and FOOD projects) and integrating knowledge extracted from structured sources following the Linked Data paradigm (i.e. Cultural-ON and FOOD national projects and the EU project MARE).

In 2015 I obtained a doctoral scholarship at University of Bologna and I continued my research on ontologies, empirical semantics and Semantic Web applied at the social robotics domain under the supervision of Prof. Paolo Ciancarini and Prof. Valentina Presutti. During my doctoral studies, I have continued the collaboration with STLab on the EU-H2020 MARIO project which provided me with the opportunity of experimenting with the contributions of my research work in a socially assistive robotics case study and in ontology design projects within the cultural heritage domain (i.e. ArCo, NEPTIS, Portale delle fonti per la storia della Repubblica italiana). I have successfully defended my PhD in 2019.

In 2018, I have been a visiting student at the Vrije Universiteit of Amsterdam under the supervision of Prof. Frank van Harmelen. The collaboration focused on developing a novel approach to observe the empirical semantics of Linked Open Data taxonomies. The result of this collaboration is an article that has been presented at ISWC 2019 (cf. **[CON4]**).

I continued my research on formal and empirical semantics at the Institute of Cognitive Science and Technology as a post-doctoral research fellow.

From 2015 to 2020, I also served as a teaching tutor for the University of Bologna.

In 2020, I joined the Department of Philology and Classical Studies of the University of Bologna as Assistant Professor (RTDa), where I'm participating in the SPICE project as leader of the task T6.3 "Ontology Network for citizen curation".

In 2020, I passed the Italian government exam and was licensed as a professional Information Engineer.

In 2023, I joined the Department of Modern Cultures, Literatures and Languages of the University of Bologna as Assistant Professor (RTDa), where I'm participating in the FAIR project as leader of the tasks 8.7.1 " Empirical semantics from large-scale creative data" and 8.7.3 "Learning and generation of creative artefacts from large-scale data".

I have also served the scientific community by co-organizing international research events, participating in multiple conference and workshop program committees, and reviewing papers for international journals, conferences and workshops. I have co-authored scientific papers for international journals, such as ACM-TOIT, IEEE Access, ACM-JOCCH and JoWS, and international conferences including IJCAI and ISWC.

According to Google Scholar, my publications have received 482 citations, and my H-Index is 12. According to Scopus, my publications have received 212 citations, and my H-Index is 7.

I have collaborated on the design and development of multiple ontologies, knowledge graphs and open-source software frameworks (see dedicated sections below). Notably, I'm one of the main designers of SPARQL Anything, a tool that uses a unique data schema to allow users to query non-RDF resources as if they are RDF (cf. **[JOU4]** and **[CON2]**).

Research Interests Knowledge Graphs, Linked (Open) Data, Data and Knowledge Integration, Ontology Engineering, Knowledge Representation, Common Sense Knowledge, Empirical Semantics, Social Robotics.

TABLE OF CONTENT

EDUCATION

Nov 2015 – Apr 2019   **Phd Programme in Computer Science and Engineering**

Alma mater studiorum - Università di Bologna, Bologna (Italy)

Thesis title: Engineering Background Knowledge for Social Robots

Summary: The thesis introduces a component-based architecture for supporting the knowledge-intensive tasks performed by social robots.

Supervisors: Prof. Paolo Ciancarini and Prof. Valentina Presutti

Related Research areas: Social Robotics, Knowledge Engineering, Semantic Web, Linked Data, Ontology Design

Defended on 3 April 2019

Jul 2018 - Sep 2018   **Visiting Student**

Vrije Universiteit, Amsterdam (Netherlands)

Visiting student at the Knowledge Representation and Reasoning research group lead by Prof. Frank Van Harmelen.

Topic: Analysis of the empirical semantics of ontology entities in large collaborative knowledge graphs. (cf. **[CON4]**)

Responsible: Prof. Frank Van Harmelen

6-11 March 2016   **Bertinoro International Spring School 2016 (BISS 2016)**

Bertinoro (FC) Italy

5-11 July 2015   **11th Summer School on Ontology Engineering and the Semantic Web (SSSW15)**

Bertinoro (FC) Italy

Sep 2011 - Oct 2014   **Master Degree in Computer Engineering**

Sapienza - University of Rome, Rome (Italy)

Main subjects: Artificial Intelligence, Software Engineering, Distributed Systems, Service Composition, Information Integration, Information Retrieval and Data Mining, Human-Computer Interaction, Cryptography, Business Process Management

Master thesis title: Data-Aware Service Composition

The aim of the thesis was to define a formal framework for the characterization and theoretical investigation of the problem of data-aware service composition.

Related research areas: Automated Service Composition, Data-Aware Business Processes, Reasoning about actions

Advisor: Prof. Giuseppe De Giacomo

Final Mark: 110/110

Certification number: 1485610 **Issue Date:** 02/12/2014

Sep 2007 – Jul 2011   **Bachelor Degree in Computer Engineering**

Sapienza - University of Rome, Rome (Italy)

Main subjects: Numerical Analysis, Physics, Object-oriented software design, Operating systems, Relational Database Design, Theoretical Computer Science, Electronics, Operative Research, Probability Theory, Control Theory

Thesis title: Shoulders - Sistema per il controllo dei parametri vitali di pazienti la cui respirazione è assistita da un ventilatore

Design and development of a system for monitoring patients with respiratory failures.Main technologies used: Java and Mysql.

Final Mark: 104/110

Certification number: 1485609 **Issue Date:** 02/12/2014

PROFESSIONAL CAREER

1 Mar 2023 – Present
(14 Months)

Assistant Professor (RTDa)
Department of Modern Languages, Literatures, and Cultures - University of Bologna (Bologna, Italy)

SSD: INF-01

Related research projects: **[FAIR]**

14 Jul 2020 – 28 Feb 2023
(31 Months)

Assistant Professor (RTDa)
Department of Classical Philology and Italian Studies - University of Bologna (Bologna, Italy)

SSD: INF-01

Related research projects: **[SPICE]**

2 Mar 2020 – 13 Jul 2020
(4 Months)

Postdoctoral researcher
Semantic Technology Laboratory STLab (Institute of Cognitive Sciences and Technologies ISTC - National Research Council CNR), Rome (Italy)

Ref. ISTC-AdR-268-2020-RM del 17/01/2020

Topics: Knowledge Graphs, Ontologies, Linked Open Data, Empirical Knowledge Engineering applied to the Cultural Heritage domain.

Related research projects: **[PORTALE]**, **[ECODIGIT]**, **[ArCo]**, **[ATLAS]**

1 Apr 2019 – 29 Feb 2020
(10 Months)

Junior research fellow
Semantic Technology Laboratory STLab (Institute of Cognitive Sciences and Technologies ISTC - National Research Council CNR), Rome (Italy)

Ref. ISTC-AdR-254-2019-RM del 14/02/2019

Topics: Knowledge Graphs, Ontologies, Linked Open Data, Empirical Knowledge Engineering applied to the Cultural Heritage domain.

Related research projects: **[PORTALE]**, **[ECODIGIT]**, **[ArCo]**, **[ATLAS]**

6 Nov 2018 – 31 Mar 2019
(4 Months)

Junior research fellow
Semantic Technology Laboratory STLab (Institute of Cognitive Sciences and Technologies ISTC - National Research Council CNR), Rome (Italy)

Ref. ISTC-AdR-245-2018-RM del 02/10/2018

Topics: Knowledge Graphs, Ontologies, Linked Open Data, Empirical Knowledge Engineering applied to the Cultural Heritage domain and Social Robotics.

Related research projects: **[SI-ROBOTICS]**, **[PORTALE]**, **[ECODIGIT]**, **[ArCo]**, **[ATLAS]**

11 Dec 2015 – 31 Oct 2018

Research assistant (Co.Co.Co.)

(34 Months)   Semantic Technology Laboratory STLab (Institute of Cognitive Sciences and Technologies ISTC - National Research Council CNR), Rome (Italy)

Ref. Avviso N. 11/ISTC/2015

Topics: Knowledge Graphs, Ontologies, Linked Open Data, Empirical Knowledge Engineering applied to Social Robotics, Cultural Heritage and Linguistics.

Related research projects: **[MARIO]**, **[ArCo]**, **[NEPTIS]**, **[IDEHA]**

16 Jan 2015 – 31 Oct 2015   Junior research fellow

(9 Months)   Semantic Technology Laboratory STLab (Institute of Cognitive Sciences and Technologies ISTC - National Research Council CNR), Rome (Italy)

Ref. ISTC-AdR-216-2014-RM del 25/11/2014

Topics: Knowledge Graphs, Ontologies, Linked Open Data, Empirical Knowledge Engineering applied to the Agricultural and Cultural heritage domain.

Related research projects: **[MARE]**, **[CULTURAL-ON]**, **[FOOD]**

TEACHING

Summary

Course	Inst.	Degree	Role	A.Y.	CFU	hrs
Programming for Language Studies	UniBo	2nd cycle degree programme (LM) in Language, Society and Communication	Teacher	24-25	9	60
Information Technology Laboratory and Academic Writing	UniBo	1st cycle degree programme in Foreign Languages and Literature	Teacher	24-25	3	30
Information Technology Laboratory and Academic Writing	UniBo	1st cycle degree programme (L) in Languages, Markets and Cultures of Asia and Mediterranean Africa	Teacher	24-25	3	30
Information Technology Laboratory and Academic Writing	UniBo	1st cycle degree programme in Foreign Languages and Literature	Teacher	23-24	3	22
History of Digital Technologies	IAAD	1st cycle in Digital Communication Design and 1st cycle in Communication Design	Teacher	23-24	-	18
Basic Informatics	IAAD	1st cycle in Digital Communication Design	Teacher	23-24	-	30
Semantic Web	IAAD	1st cycle in Digital Communication Design	Teacher	23-24	-	33
Artificial Intelligence	UniBo	1st cycle in Humanities	Teacher	22-23	6	30
Basic Informatics	UniBo	1st cycle in Humanities	Teacher	22-23	6	30
Artificial Intelligence	UniBo	1st cycle in Humanities	Teacher	21-22	6	30
Basic Informatics	UniBo	1st cycle in Humanities	Teacher	21-22	6	30
Semantic Web (2nd y.)	IAAD	1st cycle in Digital Communication Design	Teacher	21-22	-	24
Semantic Web (3rd y.)	IAAD	1st cycle in Digital Communication Design	Teacher	21-22	-	24
Artificial Intelligence	UniBo	1st cycle in Humanities	Teacher	20-21	6	30
Basic Informatics	UniBo	1st cycle in Humanities	Teacher	20-21	6	30
Semantic Web	IAAD	1st cycle in Digital Communication Design	Teacher	20-21	-	24
Software Engineering	UniBo	1st cycle in Information Science for Management	Tutor	19-20	6	32
Network Security	UniBo	1st cycle in Computer Science	Tutor	19-20	6	32

Summary	Course	Inst.	Degree	Role	A.Y.	CFU	hrs
	Software Engineering	UniBo	1st cycle in Information Science for Management	Tutor	18-19	6	32
	Software Engineering	UniBo	1st cycle in Information Science for Management	Tutor	17-18	6	32
	Software Engineering	UniBo	1st cycle in Information Science for Management	Tutor	16-17	6	32
	Software Engineering	UniBo	1st cycle in Information Science for Management	Tutor	15-16	6	32

A.Y. 2024-25 Teacher of Programming For Language Studies

University of Bologna, Bologna (Italy)

Second cycle degree programme (LM) in Language, Society and Communication

Language: English

Duration: 60 hours.

SSD: INF-01

Credits: 9

A.Y. 2024-25 Teacher of Information Technology Laboratory and Academic Writing

University of Bologna, Bologna (Italy)

First cycle degree programme (L) in Languages, Markets and Cultures of Asia and Mediterranean Africa

Language: Italian

Duration: 30 hours.

SSD: INF-01

Credits: 3

A.Y. 2024-25 Teacher of Information Technology Laboratory and Academic Writing

University of Bologna, Bologna (Italy)

Degree Programme First cycle degree programme (L) in Foreign Languages and Literature

Language: Italian

Duration: 30 hours.

SSD: INF-01

Credits: 3

A.Y. 2023-24 Teacher of Information Technology Laboratory and Academic Writing

University of Bologna, Bologna (Italy)

Degree Programme First cycle degree programme (L) in Foreign Languages and Literature

Language: Italian

Duration: 22 hours.

SSD: INF-01

Credits: 3

| A.Y. 2023-24 | **Teacher of History of Digital Technologies** |

Istituto D'Arte Applicata e Design (IAAD), Bologna (Italy)

First cycle degree programme (L) in Digital Communication Design and First cycle degree programme (L) in Communication Design

Language: Italian

Duration: 18 hours per academic year.

SSD: INF-01

| A.Y. 2023-24 | **Teacher of Basic Informatics** |

Istituto D'Arte Applicata e Design (IAAD), Bologna (Italy)

First cycle degree programme (L) in Digital Communication Design

Language: Italian

Duration: 30 hours per academic year.

SSD: INF-01

| A.Y. 2020-21, 2021-22, 2023-24 | **Teacher of Semantic Web** |

Istituto D'Arte Applicata e Design (IAAD), Bologna (Italy)

First cycle degree programme (L) in Digital Communication Design

Language: Italian

Duration: 24 hours per academic year. In the A.Y. 2021-22 the course was given twice (for 2nd and 3rd year students). From 2023-24 33 hours per academic year.

SSD: INF-01

| A.Y. 2020-21, 2021-22, 2022-23 | **Teacher of Artificial Intelligence** |

University of Bologna, Bologna (Italy)

First cycle degree programme (L) in Humanities

Language: Italian

Duration: 30 hours per academic year.

SSD: INF-01

Credits: 6

Note: In the A.Y. 2020-21 the course was called Theories and Systems of Artificial Intelligence.

| A.Y. 2020-21, 2021-22, 2022-23 | **Teacher of Basic Informatics** |

University of Bologna, Bologna (Italy)

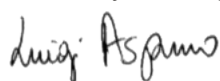First cycle degree programme (L) in Humanities

Language: Italian

Duration: 30 hours per academic year.

SSD: INF-01

Credits: 6

| Dec 2015 – Jul 2020 | **Teaching assistant (Tutor)** |

University of Bologna, Bologna (Italy)

Tutor of the course of Software Engineering (prof. Davide Rossi)

First cycle degree programme (L) in Information Science for Management

Language: Italian

Duration: 32 hours per academic year.

A.Y. 2015/2016, 2016/2017, 2017/2018, 2018/2019, 2019/2020

Ref. contact prof. Davide Rossi or Dr. Luisa Lanzarini

Feb 2020 – Jul 2020	**Teaching assistant (Tutor)**

University of Bologna, Bologna (Italy)

Tutor of the course of Network Security (prof. Ozalp Baboglu)

First cycle degree programme (L) in Computer Science

Language: Italian

Duration: 32 hours per academic year.

A.Y. 2019/2020

Ref. contact prof. Ozalp Babaoglu or Dr. Luisa Lanzarini

30 June 2019 - 6 July 2019	**Assistant Tutor**

International Semantic Web School (ISWS), Bertinoro, FC (Italy)

Language: English

Ref. contact Dr. Valentina Presutti or Prof. Harald Sack

Mentoring and supervision   *Co-tutor*

2023 - present   Francesco Petri, PhD Student at University of Rome

Topic: Enhancing learning agents with knowledge representation learning

Defense planned: 2026

Thesis (co)advising   A list of thesis that I have co-advised so far as external supervisor. All theses have been developed and successfully defended at the University of Bologna.

2018   *Costruzione di una base di conoscenza lessicale basata su FrameNet*. Stefania Lusardi. Corso di Studio in Informatica per il management. Università di Bologna

2019   *Sviluppo di un sistema di crowdsourcing per la validazione e l'arricchimento di dataset*. Hamza Elatfi. Corso di Studio in Informatica per il management. Università di Bologna

Conoscenze di Senso Comune: Una Panoramica sui Dataset. Noemi Trivisonno. Corso di Studio in Informatica per il management. Università di Bologna

Analisi Empirica delle Distinzioni Fondazionali in Linked Open Data. Serena Passerini. Corso di Studio in Informatica per il management. Università di Bologna
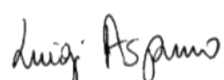
Invited Talks and Seminars   A list of talks and seminars I have given:

Feb 9, 2017   Addressing Knowledge integration with a frame-driven approach. Invited Talk @ Wimmics (INRIA). *Sophia Antipolis, France*

Apr 29, 2020   An Introduction to ROS. Seminar @ Course "Social Robots", Master in Computer Science. University of Bologna. *Bologna, Italy*

Dec 14, 2021   A gentle introduction to SPARQL Anything. Seminar @ Course "Knowledge Engineering", Master in Artificial Intelligence. University of Bologna. *Bologna, Italy*

Dec 16, 2021   Semantic Knowledge Graphs. Seminar @ School in Artificial Intelligence. *Rome, Italy*

Apr 18, 2023	A gentle introduction to SPARQL Anything. Seminar @ Course "Knowledge Representation and Knowledge Extraction", Master in Digital Humanities and Digital Knowledge. University of Bologna. *Bologna, Italy*
May 4, 2023	SPARQL Anything. Invited Talk @ Estes Park Group, Semantic Arts Inc. *Fort Collins, CO, USA*
May 9, 2023	A gentle introduction to SPARQL Anything. Seminar @ Course "Knowledge Engineering ", Master in Artificial Intelligence. University of Bologna. *Bologna, Italy*
Mar 5, 2024	A gentle introduction to SPARQL Anything. Seminar @ Course "Knowledge Engineering ", Master in Artificial Intelligence. University of Bologna. *Bologna, Italy*

SCIENTIFIC PUBLICATIONS

Journal Papers

[JOU1] C. Lucifora, M. Schembri, *L. Asprino*, A. Follo, and A. Gangemi. "Virtual Empathy: Usability and Immersivity of a VR System for Enhancing Social Cohesion through Cultural Heritage". In: *Journal on Computing and Cultural Heritage* (2024), to appear

Individual contribution (specified according to the CReDIT Taxonomy): Conceptualization, Software, Writing – review and editing

[JOU2] F. Alfieri, *L. Asprino*, N. Lazzari, and V. Presutti. "Creative Influence Prediction Using Graph Theory". In: *Intelligenza Artificiale* (2024), to appear

Individual contribution (specified according to the CReDIT Taxonomy): Conceptualization, Data curation, Writing – original draft, Writing – review and editing

[JOU3] *L. Asprino* and V. Presutti. "Observing LOD: Its Knowledge Domains and the Varying Behavior of Ontologies Across Them". In: *IEEE Access* 11 (2023), pages 21127–21143. DOI: 10.1109/ACCESS.2023.3250105

Individual contribution (specified according to the CReDIT Taxonomy): Conceptualization, Data curation, Formal Analysis, Investigation, Methodology, Software, Visualization, Writing – original draft, Writing – review and editing

[JOU4] *L. Asprino*, E. Daga, A. Gangemi, and P. Mulholland. "Knowledge Graph Construction with a FaçAde: A Unified Method to Access Heterogeneous Data Sources on the Web". In: *ACM Transactions on Internet Technologies* 23.1 (2023). ISSN: 1533-5399. DOI: 10.1145/3555312. URL: https://doi.org/10.1145/3555312

Individual contribution (specified according to the CReDIT Taxonomy): Conceptualization, Data curation, Formal Analysis, Investigation, Methodology, Resources, Software, Validation, Visualization, Writing – original draft, Writing – review and editing

[JOU5] *L. Asprino*, P. Ciancarini, A. G. Nuzzolese, V. Presutti, and A. Russo. "A reference architecture for social robots". In: *Journal of Web Semantics* 72 (2022), page 100683. ISSN: 1570-8268. DOI: 10.1016/j.websem.2021.100683

Individual contribution (specified according to the CReDIT Taxonomy): Conceptualization, Data curation, Formal Analysis, Investigation, Methodology, Software, Visualization, Writing – original draft, Writing – review and editing

[JOU6] E. Daga, *L. Asprino*, R. Damiano, M. Daquino, B. D. Agudo, A. Gangemi, T. Kuflik, A. Lieto, M. Maguire, A. M. Marras, D. M. Pandiani, P. Mulholland, S. Peroni, S. Pescarin, and A. Wecker. "Integrating Citizen Experiences in Cultural Heritage Archives: Requirements, State of the Art, and Challenges". In: *Journal on Computing and Cultural Heritage* 15.1 (2022). ISSN: 1556-4673. DOI: 10.1145/3477599

Individual contribution (specified according to the CReDIT Taxonomy): Data curation, Writing – original draft, Writing – review and editing

Conference Papers

[CON1] *L. Asprino* and M. Ceriani. "How is your Knowledge Graph Used: Content-Centric Analysis of SPARQL Query Logs". In: *Proceedings of the 22nd International Semantic Web Conference (ISWC 2023)*. 2023, pages 197–215. ISBN: 978-3-031-47240-4. DOI: 10.1007/978-3-031-47240-4_11

Individual contribution (specified according to the CReDIT Taxonomy): Conceptualization, Data curation, Formal Analysis, Investigation, Methodology, Software, Validation, Visualization, Writing – original draft, Writing – review and editing

[CON2] E. Daga, ***L. Asprino***, P. Mulholland, and A. Gangemi. "Facade-X: An Opinionated Approach to SPARQL Anything". In: *Proceedings of the 17th International Conference on Semantic Systems (SEMANTiCS 2021)*. Edited by M. Alam, P. Groth, V. de Boer, T. Pellegrini, and H. J. Pandit. Volume 53. IOS Press, 2021, pages 58–73. DOI: `10.3233/SSW210035`

Individual contribution (specified according to the CReDIT Taxonomy): Conceptualization, Data curation, Formal Analysis, Investigation, Methodology, Software, Validation, Visualization, Writing – original draft, Writing – review and editing

[CON3] ***L. Asprino***, V. A. Carriero, and V. Presutti. "Extraction of Common Conceptual Components from Multiple Ontologies". In: *Proceedings of the 11th Conference on Knowledge Capture (K-CAP 2021)*. Edited by A. L. Gentile and R. Gonçalves. ACM, 2021, pages 185–192. DOI: `10.1145/3460210.3493542`

Individual contribution (specified according to the CReDIT Taxonomy): Conceptualization, Data curation, Investigation, Methodology, Software, Supervision, Validation, Visualization, Writing – original draft,

[CON4] ***L. Asprino***, W. Beek, P. Ciancarini, F. van Harmelen, and V. Presutti. "Observing LOD Using Equivalent Set Graphs: It Is Mostly Flat and Sparsely Linked". In: *The Semantic Web - ISWC 2019 - 18th International Semantic Web Conference, Auckland, New Zealand, October 26-30, 2019, Proceedings, Part I*. edited by C. Ghidini, O. Hartig, M. Maleshkova, V. Svátek, I. F. Cruz, A. Hogan, J. Song, M. Lefrançois, and F. Gandon. Volume 11778. Lecture Notes in Computer Science. Springer, 2019, pages 57–74. ISBN: 978-3-030-30792-9. DOI: `10.1007/978-3-030-30793-6\_4`. URL: `https://doi.org/10.1007/978-3-030-30793-6%5C_4`

Presented as speaker.

Individual contribution (specified according to the CReDIT Taxonomy): Conceptualization, Data curation, Formal Analysis, Investigation, Methodology, Software, Validation, Visualization, Writing – original draft, Writing – review and editing

[CON5] ***L. Asprino***, V. Basile, P. Ciancarini, and V. Presutti. "Empirical Analysis of Foundational Distinctions in Linked Open Data". In: *Proceedings of the 27th International Joint Conference on Artificial Intelligence and the 23rd European Conference on Artificial Intelligence (IJCAI-ECAI 18)*. Edited by J. Lang. 2018, pages 3962–3969. ISBN: 978-0-9992411-2-7. DOI: `10.24963/ijcai.2018/551`
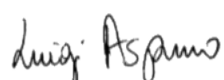
Individual contribution (specified according to the CReDIT Taxonomy): Conceptualization, Data curation, Formal Analysis, Investigation, Methodology, Software, Validation, Visualization, Writing – original draft, Writing – review and editing

[CON6] A. Gangemi, M. Alam, ***L. Asprino***, V. Presutti, and D. Reforgiato Recupero. "Framester: A Wide Coverage Linguistic Linked Data Hub". In: *Proceedings of the 20th International Conference on Knowledge Engineering and Knowledge Management (EKAW 2016)* (Bologna, Italy). Edited by E. Blomqvist, P. Ciancarini, F. Poggi, and F. Vitali. Springer International Publishing, 2016, pages 239–254. DOI: `10.1007/978-3-319-49004-5_16`

Individual contribution (specified according to the CReDIT Taxonomy): Data curation, Software

[CON7] V. Presutti, G. Lodi, A. Nuzzolese, A. Gangemi, S. Peroni, and ***L. Asprino***. "The Role of Ontology Design Patterns in Linked Data Projects". In: *Proceedings of the 35th International Conference on Conceptual Modeling (ER 2016)* (Gifu, Japan). Edited by I. Comyn-Wattiau, K. Tanaka, I.-Y. Song, S. Yamamoto, and M. Saeki. Springer International Publishing, 2016, pages 113–121. DOI: `10.1007/978-3-319-46397-1_9`

Presented as speaker.

Individual contribution (specified according to the [CReDIT Taxonomy](#)): Data curation, Investigation, Software, Validation, Visualization, Writing – review and editing

[CON8] S. Peroni, G. Lodi, ***L. Asprino***, A. Gangemi, and V. Presutti. "FOOD: FOod in Open Data". In: *Proceedings of the 15th International Semantic Web Conference (ISWC 2016), Part II* (Kobe, Japan). Edited by P. Groth, E. Simperl, A. Gray, M. Sabou, M. Krötzsch, F. Lecue, F. Flöck, and Y. Gil. Springer International Publishing, 2016, pages 168–176. DOI: `10.1007/978-3-319-46547-0_18`

Individual contribution (specified according to the [CReDIT Taxonomy](#)): Data curation, Investigation, Software, Validation, Visualization, Writing – original draft, Writing – review and editing

Posters and Short papers

[SHO1] M. Ratta, E. Daga, and ***L. Asprino***. "PySPARQL Anything Showcase". In: *Proceedings of the 21st ESWC Conference (ESWC 2024) - Poster and Demo track*. 2024

Individual contribution (specified according to the [CReDIT Taxonomy](#)): Conceptualization, Writing – review and editing

[SHO2] J. Carvalho, E. Daga, ***L. Asprino***, A. Gangemi, M. Maguire, P. Mulholland, A. Stoneman, and C. Uwasomba. "SPICE Linked Data Hub - Data infrastructure and tools to support Citizen Curation". In: *Proceedings of the 1st Conference on Extended Intelligence for Cultural Engagement (ExICE 2023)*. 2023. URL: `https://spice-h2020.eu/conference/papers/demos/demo_4.pdf`

Individual contribution (specified according to the [CReDIT Taxonomy](#)): Conceptualization, Data curation, Investigation, Software, Writing – review and editing

[SHO3] ***L. Asprino***, A. Gangemi, C. Lucifora, F. Poggi, and M. Schembri. "A semantic VR cognitive system to promote social cohesion through cultural heritage". In: *Proceedings of the 1st Conference on Extended Intelligence for Cultural Engagement (ExICE 2023)*. 2023. URL: `https://spice-h2020.eu/conference/papers/demos/demo_1.pdf`

Individual contribution (specified according to the [CReDIT Taxonomy](#)): Software, Writing – review and editing

[SHO4] ***L. Asprino***, C. Birrozzi, G. Bruno, F. Guernaccini, S. Pasquini, M. Porena, V. Presutti, and C. Veninata. "The new catalogue of the Italian Cultural Heritage: a knowledge graph-driven web portal". In: *Ital-IA 22 Convegno Nazionale CINI sull'Intelligenza Artificiale*. 2022

Individual contribution (specified according to the [CReDIT Taxonomy](#)): Data curation, Writing – review and editing

[SHO5] ***L. Asprino***, L. Bulla, L. Marinucci, M. Mongiovi, and V. Presutti. "A Large Visual Question Answering Dataset for Cultural Heritage". In: *Proceedings of the 7th International Conference on Machine Learning, Optimization, and Data Science , (LOD 2021), Revised Selected Papers, Part II*. edited by G. Nicosia, V. Ojha, E. L. Malfa, G. L. Malfa, G. Jansen, P. M. Pardalos, G. Giuffrida, and R. Umeton. Volume 13164. Lecture Notes in Computer Science. Springer, 2021, pages 193–197. DOI: `10.1007/978-3-030-95470-3\_14`

Individual contribution (specified according to the [CReDIT Taxonomy](#)): Conceptualization, Data curation, Investigation, Methodology, Writing – original draft,

[SHO6] ***L. Asprino***, A. Budano, M. Canciani, L. Carbone, M. Ceriani, L. Marinucci, F. Meschini, M. L. Mongelli, A. G. Nuzzolese, V. Presutti, M. Puccini, and M. Saccone. "EcoDigit Ecosistema Digitale per la fruizione e la valorizzazione dei beni e delle attività culturali del Lazio". In: *Proceedings of the IX Convegno Annuale AIUCD (Poster)*. 2020

Individual contribution (specified according to the CReDIT Taxonomy): Conceptualization, Data curation, Formal Analysis, Investigation, Methodology, Software, Supervision, Validation, Visualization, Writing – original draft, Writing – review and editing

[SHO7] *L. Asprino*, W. Beek, P. Ciancarini, F. van Harmelen, and V. Presutti. "Triplifying Equivalence Set Graphs". In: *Proceedings of the ISWC 2019 Satellite Tracks (Posters & Demonstrations, Industry, and Outrageous Ideas) co-located with 18th International Semantic Web Conference (ISWC 2019), Auckland, New Zealand, October 26-30, 2019.* Edited by M. C. Suárez-Figueroa, G. Cheng, A. L. Gentile, C. Guéret, C. M. Keet, and A. Bernstein. Volume 2456. CEUR Workshop Proceedings. CEUR-WS.org, 2019, pages 253–256. URL: `http://ceur-ws.org/Vol-2456/paper66.pdf`

Presented as speaker.

Individual contribution (specified according to the CReDIT Taxonomy): Conceptualization, Data curation, Formal Analysis, Investigation, Methodology, Software, Validation, Visualization, Writing – original draft, Writing – review and editing

[SHO8] *L. Asprino*, V. A. Carriero, A. Gangemi, L. Marinucci, A. G. Nuzzolese, and V. Presutti. "Atlas of Paths: a Formal Ontology of Historical Pathways in Italy". In: *Proceedings of the ISWC 2019 Satellite Tracks (Posters & Demonstrations, Industry, and Outrageous Ideas) co-located with 18th International Semantic Web Conference (ISWC 2019), Auckland, New Zealand, October 26-30, 2019.* Edited by M. C. Suárez-Figueroa, G. Cheng, A. L. Gentile, C. Guéret, C. M. Keet, and A. Bernstein. Volume 2456. CEUR Workshop Proceedings. CEUR-WS.org, 2019, pages 149–152. URL: `http://ceur-ws.org/Vol-2456/paper39.pdf`

Conference Ranking: GGS Class: 1, CORE: A

Individual contribution (specified according to the CReDIT Taxonomy): Validation, Writing – review and editing

[SHO9] *L. Asprino*, A. Gangemi, A. G. Nuzzolese, V. Presutti, and D. Reforgiato Recupero. "Robotica Sociale e Tecnologie Semantiche per l'Invecchiamento Attivo". In: *Ital-IA Convegno Nazionale CINI sull'Intelligenza Artificiale.* 2019

Presented as speaker.

Individual contribution (specified according to the CReDIT Taxonomy): Conceptualization, Data curation, Formal Analysis, Investigation, Methodology, Software, Validation, Visualization, Writing – original draft, Writing – review and editing

[SHO10] *L. Asprino*, P. Ciancarini, and V. Presutti. "Analysing Knowledge Domains that Emerge from Linked Open Data". In: *Atti della Conferenza GARR 2019 - Selected Papers.* 2019

Presented as speaker.

Individual contribution (specified according to the CReDIT Taxonomy): Conceptualization, Data curation, Formal Analysis, Investigation, Methodology, Software, Validation, Visualization, Writing – original draft, Writing – review and editing

[SHO11] *L. Asprino*, V. Presutti, A. Gangemi, and P. Ciancarini. "Frame-Based Ontology Alignment". In: *Proceedings of the 31st AAAI Conference on Artificial Intelligence and the Twenty-Ninth Innovative Applications of Artificial Intelligence Conference (AAAI 2017)* (San Francisco, California USA). Edited by S. P. Singh and S. Markovitch. AAAI Press, Palo Alto, California, 2017, pages 4095–4096

Individual contribution (specified according to the CReDIT Taxonomy): Conceptualization, Data curation, Formal Analysis, Investigation, Methodology, Software, Validation, Visualization, Writing – original draft, Writing – review and editing

[SHO12] *L. Asprino*, V. Presutti, and A. Gangemi. "Matching Ontologies Using a Frame-Driven Approach". In: *Proceedings of the 20th International Conference on Knowledge Engineering and Knowledge Management and Satellite Events, EKM and Drift-a-LOD (EKAW 2016)* (Bologna, Italy). Edited by P. Ciancarini, F. Poggi, M. Horridge, J. Zhao, T. Groza, M. C. Suarez-Figueroa, M. d'Aquin, and V. Presutti. Springer International Publishing, 2016, pages 101–104. DOI: `10.1007/978-3-319-58694-6_9`

Presented as speaker.

Individual contribution (specified according to the CReDIT Taxonomy): Conceptualization, Data curation, Formal Analysis, Investigation, Methodology, Software, Validation, Visualization, Writing – original draft, Writing – review and editing

[SHO13] *L. Asprino*. "Addressing Knowledge Integration with a Frame-Driven Approach". In: *Proceedings of the 20th International Conference on Knowledge Engineering and Knowledge Management and Satellite Events, EKM and Drift-a-LOD (EKAW 2016)* (Bologna, Italy). Edited by P. Ciancarini, F. Poggi, M. Horridge, J. Zhao, T. Groza, M. C. Suarez-Figueroa, M. d'Aquin, and V. Presutti. Springer International Publishing, 2016, pages 205–210. DOI: `10.1007/978-3-319-58694-6_32`

Presented as speaker.

Individual contribution (specified according to the CReDIT Taxonomy): Conceptualization, Data curation, Formal Analysis, Investigation, Methodology, Software, Validation, Visualization, Writing – original draft, Writing – review and editing

Book Chapters

[CHA1] *L. Asprino*, A. Gangemi, A. G. Nuzzolese, V. Presutti, D. R. Recupero, and A. Russo. "Ontology-Based Knowledge Management for Comprehensive Geriatric Assessment and Reminiscence Therapy on Social Robots". In: *Data Science for Healthcare - Methodologies and Applications*. Edited by S. Consoli, D. R. Recupero, and M. Petkovic. Springer, 2019, pages 173–193. ISBN: 978-3-030-05248-5. DOI: `10.1007/978-3-030-05249-2\_6`. URL: `https://doi.org/10.1007/978-3-030-05249-2%5C_6`

Individual contribution (specified according to the CReDIT Taxonomy): Conceptualization, Data curation, Formal Analysis, Investigation, Methodology, Software, Validation, Visualization, Writing – original draft, Writing – review and editing

[CHA2] G. Lodi, *L. Asprino*, A. G. Nuzzolese, V. Presutti, A. Gangemi, D. R. Recupero, C. Veninata, and A. Orsini. "Semantic Web for Cultural Heritage Valorisation". In: *Data Analytics in Digital Humanities*. Edited by S. Hai-Jew. Springer International Publishing, 2017, pages 3–37. DOI: `10.1007/978-3-319-54499-1_1`

Individual contribution (specified according to the CReDIT Taxonomy): Conceptualization, Data curation, Investigation, Software, Validation, Visualization, Writing – original draft, Writing – review and editing

[CHA3] *L. Asprino*, A. G. Nuzzolese, A. Russo, A. Gangemi, V. Presutti, and S. Nolfi. "An Ontology Design Pattern for supporting behaviour arbitration in cognitive agents". In: *Advances in Ontology Design and Patterns*. Edited by K. Hammar, P. Hitzler, A. Krisnadhi, A. Ławrynowicz, A. G. Nuzzolese, and M. Solanki. IOS Press, 2017, pages 85–95

Individual contribution (specified according to the CReDIT Taxonomy): Conceptualization, Data curation, Formal Analysis, Investigation, Methodology, Software, Validation, Visualization, Writing – original draft, Writing – review and editing

Workshop Papers

[WOR1] F. Alfieri, *L. Asprino*, N. Lazzari, and V. Presutti. "Creative Influence Prediction Using Graph Theory". In: *Proceedings of the 2nd Workshop on Artificial Intelligence and Creativity co-located with 22nd International Conference of the Italian Association for Artificial Intelligence (AIxIA 2023)*. 2023. URL: `Creative%20Influence%20Prediction%20Using%20Graph%20Theory`

Individual contribution (specified according to the CReDIT Taxonomy): Conceptualization, Methodology, Writing – review and editing

[WOR2] *L. Asprino*, S. De Giorgis, A. Gangemi, L. Bulla, L. Marinucci, and M. Mongiovi. "Uncovering Values: Detecting Latent Moral Content from Natural Language with Explainable and Non-Trained Methods". In: *Proceedings of the 3rd Workshop on Knowledge Extraction and Integration for Deep Learning Architectures - (Deep Learning Inside Out DeeLIO 2022), co-located with the 60th Annual Meeting of the Association for Computational Linguistics (ACL)*. 2022, pages 33–41. DOI: `10.18653/v1/2022.deelio-1.4`

Individual contribution (specified according to the CReDIT Taxonomy): Conceptualization, Data curation, Writing – review and editing

[WOR3] *L. Asprino*, V. A. Carriero, C. Colonna, and V. Presutti. "OPLaX: annotating ontology design patterns at conceptual and instance level". In: *Proceedings of 12th Workshop on Ontology Design and Patterns (WOP2021)*. 2021

Individual contribution (specified according to the CReDIT Taxonomy): Conceptualization, Data curation, Formal Analysis, Investigation, Methodology, Software, Validation, Visualization, Writing – original draft, Writing – review and editing

[WOR4] *L. Asprino*, A. Gangemi, A. G. Nuzzolese, V. Presutti, D. Reforgiato Recupero, and A. Russo. "Autonomous Comprehensive Geriatric Assessment". In: *Proceedings of the 1st International Workshop on Application of Semantic Web technologies in Robotics co-located with 14th ESWC (ANSWER 2017)* (Portroz, Slovenia). Edited by E. Bastianelli, M. d'Aquin, and D. Nardi. 2017, pages 41–45

Presented as speaker.

Individual contribution (specified according to the CReDIT Taxonomy): Conceptualization, Data curation, Formal Analysis, Investigation, Methodology, Software, Validation, Visualization, Writing – original draft, Writing – review and editing

[WOR5] *L. Asprino*, A. Gangemi, A. G. Nuzzolese, V. Presutti, and A. Russo. "A Knowledge Management System for Assistive Robotics". In: *Proceedings of the 1st International Workshop on Application of Semantic Web technologies in Robotics co-located with 14th ESWC (ANSWER 2017)* (Portroz, Slovenia). Edited by E. Bastianelli, M. d'Aquin, and D. Nardi. 2017, pages 46–50

Individual contribution (specified according to the CReDIT Taxonomy): Conceptualization, Data curation, Formal Analysis, Investigation, Methodology, Software, Validation, Visualization, Writing – original draft, Writing – review and editing

[WOR6] *L. Asprino*, A. Gangemi, A. G. Nuzzolese, V. Presutti, and A. Russo. "Knowledge-driven Support for Reminiscence on Companion Robots". In: *Proceedings of the 1st International Workshop on Application of Semantic Web technologies in Robotics co-located with 14th ESWC (ANSWER 2017)* (Portroz, Slovenia). Edited by E. Bastianelli, M. d'Aquin, and D. Nardi. 2017, pages 51–55

Individual contribution (specified according to the CReDIT Taxonomy): Conceptualization, Data curation, Formal Analysis, Investigation, Methodology, Software, Validation, Visualization, Writing – original draft, Writing – review and editing

Books

[BOO1] ___*L. Asprino*___. *Engineering Background Knowledge for Social Robots.* Volume 48. Studies on the Semantic Web. IOS Press, 2020. ISBN: 978-1-64368-108-5. DOI: `10.3233/SSW48`

Individual contribution (specified according to the CReDIT Taxonomy): Conceptualization, Data curation, Formal Analysis, Funding acquisition, Investigation, Methodology, Software, Validation, Visualization, Writing – original draft, Writing – review and editing

Editorships

[EDI1] K. Hammar, C. Shimizu, H. K. McGinty, ___*L. Asprino*___, and V. A. Carriero, editors. *WOP 2021: Workshop on Ontology Design and Patterns 2021 : Proceedings of the 12th Workshop on Ontology Design and Patterns (WOP 2021) co-located with the 20th International Semantic Web Conference (ISWC 2021), online, October 24, 2021.* CEUR Workshop Proceedings 3011. CEUR-WP, 2021, page 80. URL: `http://ceur-ws.org/Vol-3011/`

[EDI2] R. Mutharaju, A. Lawrynowicz, P. Bhattacharyya, E. Blomqvist, ___*L. Asprino*___, and G. Singh, editors. *Proceedings of the 14th Workshop on Ontology Design and Patterns (WOP 2023) co-located with the 22nd International Semantic Web Conference (ISWC 2023), Athens, Greece, November 06, 2023.* Volume 3636. CEUR Workshop Proceedings. CEUR-WS.org, 2024. URL: `https://ceur-ws.org/Vol-3636`

Miscellanea

[MIS1] ___*L. Asprino*___, C. Colonna, M. Mongiovi, M. Porena, and V. Presutti. "Pattern-based Visualization of Knowledge Graphs". In: *CoRR* abs/2106.12857 (2021). arXiv: `2106.12857`. URL: `https://arxiv.org/abs/2106.12857`

[MIS2] E. Daga and ___*L. Asprino*___. "The SPARQL Anything project". In: *The Web Conference 2021 - DevTrack.* 2021

[MIS3] N. Abbas et al. "Knowledge Graphs Evolution and Preservation - A Technical Report from ISWS 2019". In: *CoRR* abs/2012.11936 (2020). arXiv: `2012.11936`. URL: `https://arxiv.org/abs/2012.11936`

[MIS4] ___*L. Asprino*___, E. Daga, J. Dowdy, P. Mulholland, A. Gangemi, and M. Ratta. "Streamlining Knowledge Graph Construction with a façade: The SPARQL Anything project". In: *Proceedings of the 2nd EuropeaN Data conference On Reference data and SEmantics (ENDORSE 2023).* 2023. DOI: `https://data.europa.eu/doi/10.2830/343811`

BIBLIOMETRIC INFORMATION
FOR JOURNAL ARTICLES
AND CONFERENCE PAPERS

	Google Scholar	Scopus
Number of publications	39	26
Number of citations	482	212
H-Index	12	7

Bibliometric Record

Last update: July 25, 2024
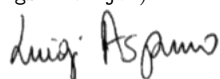
Journal Papers

Paper title	Bib record	Year	SJR Quartile (2023)	FWCI	Citations Google Scholar	Citations Scopus
Virtual Empathy: Usability and Immersivity of a VR System for Enhancing Social Cohesion through Cultural Heritage	**[JOU1]**	2024	Q2 (Information Systems)	N.A.	N.A.	N.A.
Creative influence prediction using graph theory	**[JOU2]**	2024	Q2 (Artificial Intelligence)	N.A.	N.A.	N.A.
Observing LOD: Its Knowledge Domains and the Varying Behavior of Ontologies Across Them	**[JOU3]**	2023	Q1 (Computer Science (miscellaneous))	1.32	5	4
Knowledge Graph Construction with a Façade: A Unified Method to Access Heterogeneous Data Sources on the Web	**[JOU4]**	2023	Q1 (Computer Networks and Communications)	6.18	46	22
A reference architecture for social robots	**[JOU5]**	2022	Q2 (Computer Networks and Communications)	0.98	15	8
Integrating Citizen Experiences in Cultural Heritage Archives: Requirements, State of the Art, and Challenges	**[JOU6]**	2022	Q2 (Information Systems)	5.49	46	24

Conference Papers

Paper title	Bib record	Year	Rating[1]	FWCI	Citations Google Scholar	Citations Scopus
How is your Knowledge Graph Used: Content-Centric Analysis of SPARQL Query Logs	**[CON1]**	2023	GGS Class: 1, CORE: A	0.00	1	0
Façade-X: An Opinionated Approach to SPARQL Anything	**[CON2]**	2021	N.A.	N.A.	46	N.A.
Extraction of Common Conceptual Components from Multiple Ontologies	**[CON3]**	2021	GGS Class: 3 CORE: B	0.53	7	4
Observing LOD Using Equivalent Set Graphs: It Is Mostly Flat and Sparsely Linked	**[CON4]**	2019	GGS Class: 1, CORE: A	1.28	16	7
Empirical Analysis of Foundational Distinctions in Linked Open Data	**[CON5]**	2018	GGS Class: 1, CORE: A++	0.82	16	9
Framester: A Wide Coverage Linguistic Linked Data Hub	**[CON6]**	2016	GGS Class: 3, CORE: B	8.79	113	75
The Role of Ontology Design Patterns in Linked Data Projects	**[CON7]**	2016	GGS Class: 3, CORE: A	1.90	26	17
FOOD: FOod in Open Data	**[CON8]**	2016	GGS Class: 1, CORE: A	0.95	13	7

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[1]Conference rating has been obtained from the GGS Conference Rating 2021 last updated: October 24th, 2021 (`http://valutazione.unibas.it/gii-grin-scie-rating/ratingSearch.jsf`)

ACTIVITIES IN RESEARCH PROJECTS

International Research Projects

A list of the international research projects I have participated to:

1) **[MARE]**   **MARE**

Type: Technology transfer, software prototyping

Funded by: Maritime Affairs Agency of the EU Commission

Description: An integrated software system for multilingual management of fishery products.

Role: Main developer of the data integration solution

Website: `https://w3id.org/mare`

Related publications: [CHA2], [CON7]

2) **[MARIO]**   **MARIO**

Managing Active and healthy aging with use of caRing servIce robots

Type: Research project

Funded by: European Union's Horizon 2020 research and innovation programme

Description: The MARIO project aims to manage active and healthy ageing through the use of caring service robots, to address and make progress on the challenging problems of loneliness, isolation and dementia in older persons through multi-faceted interventions delivered by service robots.

Role: Task leader (Task T5.1 "MARIO Ontology Network"), Main Developer of the MARIO Ontology Network, Main Developer of the Comprehensive Geriatric Assessment App, Main Developer of the knowledge management system.

Related publications: [JOU5], [CON6], [SHO9], [CHA1], [CHA3], [WOR4], [WOR5], [WOR6]

3) **[SPICE]**   **SPICE**

Social cohesion, Participation and Inclusion Through Cultural Engagement

Type: Research project

Funded by: European Union's Horizon 2020 research and innovation programme

Description: The overall aim of the project is to foster diverse participation in the heritage domain through a process of citizen curation. Citizens are supported to: develop their interpretations of cultural objects; work together to present their collective view of life through culture and heritage; and gain an appreciation of alternative cultural viewpoints.

Role: Task leader (Task T6.3 "Ontology Network for Citizen Curation"), Main Developer of the SPICE Ontology Network, Developer of the Linked Data Hub and SPARQL Anything.

Website: `https://spice-h2020.eu/project/`

Related publications [MIS4], [JOU6], [CON2], [SHO2], [SHO3], [JOU1]

National Research Projects

A list of the national research projects I have participated to:

1) **[FAIR]**   **FAIR**

Future of AI Research

Type: Research project

Funded by: FAIR – Future Artificial Intelligence Research is the Italian project approved in the call 'Extended Partnerships: Artificial Intelligence. Fundamental aspects of the NRRP, defined on one of the hottest topics of current Information Technology, i.e. the theoretical, modelling and engineering aspects of modern Artificial Intelligence, are strongly desired by the Italian Artificial Intelligence community to study and develop the methodological foundations, architectural models, theory and practice of AI. The FAIR project brings together 350 researchers and is developed in 10 spokes, geographically distributed in the different Italian regions, each of which addresses a different Artificial Intelligence issue, such as sustainability, integration, security, and reliability.

Role: Leader of the tasks 8.7.1 "Empirical semantics from large-scale creative data" and 8.7.3 "Learning and generation of creative artefacts from large-scale data".

Website `https://future-ai-research.it/`

Related publications: [CON1], [WOR1], [JOU2]

2) **[ArCo]**   **ArCo**

ARchitettura della COnoscenza

Type: Technology transfer, ontology engineering, linked open data, ontology design, ontology design patterns

Funded by: MIBACT (Ministero dei Beni e Attività Culturali e del Turismo)

Description: ArCo aims at making available data from the "Catalogo generale dei beni culturali" following the paradigm of the Linked Data initiative, in an open format, in order to ensure accessibility to users and interoperability among data in cultural heritage domain.

Role within the project: knowledge graph developer, scrum-master, ontology designer

Website: `https://w3id.org/arco`

Related publications: [SHO4]

3) **[ATLAS]**   **ATLAS**

Altas of Paths

Type: Technology transfer, ontology design

Funded by: MIBACT (Ministero dei Beni e Attività Culturali e del Turismo)

Description: The project aims at the creation and implementation of a network of ontologies representing the information contained in the MiBACT's "Atlante dei Cammini d'Italia". This initiative aims to enhance the rich heritage of Italian paths – historical, naturalistic, cultural and religious – that, from north to south, cross the country promoting a new tourism dimension.

Role: Ontology designer

Related publications: [SHO8]

4) **[CULTURAL-ON]**   **CULTURAL-ON**

Cultural Ontology

Type: Technology transfer, open data, linked data, ontology design

Funded by: MIBACT (Ministero dei Beni e Attività Culturali e del Turismo)

Description: Guidelines for integrating, modeling, managing, and publishing Linked (Open) Data starting from cultural heritage and tourism databases, held by MIBACT.

Role: Ontology designer, Knowledge Graph Developer

Website: `http://dati.beniculturali.it/cultural_on/`

Related publications: [CHA2], [CON7]

5) **[ECODIGIT]** **ECODIGIT**

Ecosistema Digitale per la fruizione e la valorizzazione dei beni e delle attività culturali del Lazio

Type: Technology transfer, ontology engineering, linked open data, ontology design, ontology design patterns, knowledge extraction

Funded by: Lazio Innova

Description: EcoDigit is one of the projects of the "Centro di Eccellenza DTC Lazio", which intends: to aggregate and integrate expertise in the field of technologies applied to cultural heritage. EcoDigit aims at enriching the Anagrafe delle Competenze, another project of the DTC Lazio, with a middleware platform that can facilitate the integration of new data sources and allow the publication and reuse of services for the enhancement and fruition of the cultural heritage in the Lazio region. The project is designed to integrate the collected data through open formats and semantic technologies based on the Linked Data model.

Role: Coordinator assistant, Ontology Designer, Knowledge graph Developer, Task Leader for the tasks T1.1, T1.2, T1.3, T1.4, T2.1, T3.2, T4.2

Website `http://ecodigit.dtclazio.it`

Related publications: **[SHO6]**

6) **[FOOD]** **FOOD**

FOod in Open Data

Type: Technology transfer, knowledge extraction, open data, linked data, ontology design

Funded by: AgiD (Agenzia per l'Italia Digitale)

Description: Linked data extraction starting from regulatory documents on DOP (Denomination Origin Protected) food and wine products, issued by the Ministry of Agriculture.

Role: Ontology designer

Website: `https://w3id.org/food/`

Related publications: [CON8]

7) **[IDEHA]** **IDEHA**

Innovazioni per l'elaborazione dei dati nel settore del Patrimonio Culturale

Type: Research project

Funded by: PON

Description: IDEHA will create an open IT platform for Cultural Heritage, combining both digital content from traditional repositories and information generated in real time by users or environmental sensors; aggregating, processing and understanding the data by utilizing new learning technologies to build services that can be used by different users (technician, researcher, tourist, etc.) profiled through specific multimodal applications (eg. mobile apps) and usable in wide scale on different cultural sites, large or small, distributed across the territory.

Role: Ontology designer, Knowledge graph Developer

Related publications: [SHO5]

8) **[NEPTIS]**   **NEPTIS**

NEPTIS

Type: Technology transfer, ontology engineering, linked open data, ontology design, ontology design patterns

Funded by: PONREC

Description: NEPTIS focuses on cultural experience and cultural heritage exploitation defining and realizing CONCEPTOURING (from concept to cultural experience-oriented tour engineering), an integrated system prototype to create services and applications supporting itineraries and cultural heritage exploitation.

9) **[PORTALE]**   **PORTALE**

Portale delle fonti per la storia della Repubblica italiana

Type: Technology transfer, ontology engineering, linked open data, ontology design, ontology design patterns

Funded by: PON Governance e Capacità Istituzionale 2014-2020

Description: "Portale delle fonti per la storia della Repubblica italiana" is one of the case studies of the project "Beni e Patrimonio Culturale: Governare La Progettazione" funded by the "PON Governance e Capacità Istituzionale 2014-2020" framework. The Portale aims at promoting the history of the Italian Republic by integrating and made available the archival heritage of several Italian institutions.

Role: Ontology Designer, Knowledge graph Developer, Main Developer of the Data Integration System, Main Developer of the Graph Analyser System

10) **[SI-ROBOTICS]**   **SI-ROBOTICS**

SI-Robotics

Type: Research project

Funded by: PON

Description: The SI-ROBOTICS (SIR) project aims to design and develop novel solutions of collaborative assistive ICT robotics with advanced abilities to support humans in healthcare services and, at the same time, acting with socially acceptable behaviour.

Role: Ontology designer

Project Deliverables

[DEL1]   *L. Asprino*, A. Gangemi, S. Nolfi, A. Nuzzolese, N. Pisanelli, V. Presutti, and A. Russo. *D5.1 MARIO Ontology Network*. EU Project Deliverable. 2015

[DEL2]   V. Presutti, *L. Asprino*, A. Nuzzolese, A. Gangemi, D. Pisanelli, A. Russo, M. Raciti, A. Freitas, L. Penteridis, and A. Gkiokas. *D5.6 MARIO Reading and Listening Component*. EU Project Deliverable. 2015

[DEL3]   M. Alam, *L. Asprino*, L. Marinucci, A. G. Nuzzolese, V. Presutti, and A. Russo. *D1.1 Gestione del Progetto e Monitoraggio degli Obiettivi e della Qualità*. Deliverable Progetto EcoDigit. 2019

[DEL4]   M. Alam, *L. Asprino*, V. Carriero, L. Marinucci, A. G. Nuzzolese, V. Presutti, and A. Russo. *D1.2 Strumenti di Comunicazione e Divulgazione*. Deliverable Progetto EcoDigit. 2019

[DEL5] M. Alam, **L. Asprino**, V. A. Carriero, L. Marinucci, A. G. Nuzzolese, V. Presutti, and A. Russo. *D1.3 Analisi, Monitoraggio e Azioni di Mitigazione dei Rischi*. Deliverable Progetto EcoDigit. 2019

[DEL6] **L. Asprino**, L. Marinucci, V. Presutti, A. Russo, M. Ceriani, and M. Mecella. *D1.4 Piano di Sostenibilitá del Middleware*. Deliverable Progetto EcoDigit. 2020

[DEL7] **L. Asprino**, V. A. Carriero, L. Marinucci, A. G. Nuzzolese, M. Mecella, V. Presutti, and M. Ceriani. *D2.1 Documento di analisi dei requisiti e Survey delle tecnologie*. Deliverable Progetto EcoDigit. 2019

[DEL8] M. Ceriani, M. Mecella, M. Saccone, M. Puccini, **L. Asprino**, and C. Chiarelli. *D2.2 Descrizione del Middleware (documento architetturale)*. Deliverable Progetto EcoDigit. 2019

[DEL9] **L. Asprino**, L. Marinucci, A. G. Nuzzolese, and V. Presutti. *D3.2 Modello di ingresso*. Deliverable Progetto EcoDigit. 2019

[DEL10] **L. Asprino**, L. Marinucci, A. G. Nuzzolese, and V. Presutti. *D3.2 Modello di ingresso (v.2)*. Deliverable Progetto EcoDigit. 2019

[DEL11] **L. Asprino**, L. Marinucci, A. G. Nuzzolese, and V. Presutti. *D3.3 Studio sugli strumenti di supporto*. Deliverable Progetto EcoDigit. 2019

[DEL12] **L. Asprino**, L. Marinucci, A. G. Nuzzolese, V. Presutti, M. Mecella, and M. Ceriani. *D3.4 Proof-of-Concept*. Deliverable Progetto EcoDigit. 2019

[DEL13] A. Budano, **L. Asprino**, and M. Saccone. *D4.1 Censimento dei tool esistenti*. Deliverable Progetto EcoDigit. 2019

[DEL14] **L. Asprino**, L. Marinucci, A. G. Nuzzolese, V. Presutti, and A. Russo. *D4.2 Strumenti per l'elaborazione semantica dei contenuti*. Deliverable Progetto EcoDigit. 2019

[DEL15] *D4.1 - Descrizione Architetturale*. SI Robotics - Project Deliverable. 2020

[DEL16] **L. Asprino**, A. G. Nuzzolese, and V. Presutti. *Portale delle fonti per la storia della Repubblica italiana: Tecnologie Semantiche*. Deliverable Progetto Portale delle fonti per la storia della Repubblica italiana. 2018

[DEL17] **L. Asprino**, R. Damiano, M. Daquino, S. De Giorgis, A. Gangemi, A. Lieto, and B. Sartini. *D6.2 Initial Ontology Network Specification*. EU Project Deliverable. 2021

[DEL18] **L. Asprino**, R. Damiano, S. De Giorgis, A. Gangemi, and A. Lieto. *D6.3 Prototype of Knowledge based Support*. EU Project Deliverable. 2021

[DEL19] **L. Asprino**, J. Carvalho, and E. Daga. *D4.2 Linked Data server technology: integrating feedback from use case requirements*. EU Project Deliverable. 2022

[DEL20] **L. Asprino**, R. Damiano, M. Daquino, S. De Giorgis, A. Gangemi, A. Lieto, B. Sartini, and M. Striani. *D6.5 Final Ontology Network Specification*. EU Project Deliverable. 2022

[DEL21] **L. Asprino**, J. de Berardinis, C. Colonna, P. van Kemenade, P. Mulholland, and V. Presutti. *D5.2: Interactive Tools for searching, browsing and exploration*. EU Project Deliverable. 2022

[DEL22] **L. Asprino**, R. Damiano, S. De Giorgis, A. Gangemi, A. Lieto, and M. Striani. *D6.6: Knowledge based exploration support*. EU Project Deliverable. 2022

[DEL23] **SPICE Consortium**. *D2.5 Methodological Toolkit for Citizen Curation*. EU Project Deliverable. 2023

[DEL24] **FAIR Spoke 8 consortium**. *D1.1 Research and Innovation Roadmap of Pervasive-AI (v1)*. FAIR Project Deliverable. 2023

[DEL25] **SPICE Consortium**. *D6.3 Integrated interfaces for citizen curation*. EU Project Deliverable. 2023

[DEL26] **_FAIR Spoke 8 consortium_**. _Intermediate report of spoke activities._ FAIR Project
         Deliverable. 2024

RESEARCH PRODUCTS

Ontologies A list of ontologies I have contributed to with indication of the targeted domain:

1) **[AFFORDANCE]** **Affordance Ontology Design Pattern** Available on ODP Portal (Robotics domain) an ontology design pattern describing the affordance relation (cf. **[CHA3]**)

2) **[ArCo-ON]** **ArCo Ontology Network** `https://w3id.org/arco` (Cultural heritage domain) a set of ontologies describing the cultural heritage domain (cf. **[SHO4]**).

3) **[Cultural-Ontology]** **Cultural-ON** `http://dati.beniculturali.it/` (Cultural heritage domain) An ontology on cultural sites and events (cf. **[CHA2]**).

4) **[ECODIGIT-ON]** **EcoDigit Ontologies** `https://github.com/ecodigit/workspace` (Cultural heritage domain), a set of ontologies describing people and organizations in the cultural domain. (cf. **[SHO6]**)

5) **[FOOD-ON]** **FOOD Ontology Network** `https://w3id.org/food` (Agri-food domain), an ontology network on quality schemes for agriculture and food products (cf. **[CON8]**).

6) **[FOX-ONT]** **FOX Metamodel** `https://w3id.org/fox` (Common sense domain) A metamodel for describing foundational distinctions based on common sense (cf. **[CON5]**)

7) **[MON]** **MARIO Ontology Network** `https://w3id.org/MON` (Social Robotics domain) An ontology network describing the socially assistive robotics domain (cf. **[CON5] [BOO1]**)

8) **[NEPTIS-ON]** **NEPTIS Ontology** `http://w3id.org/neptis/ontology` (Cultural heritage domain) an ontology automatically extracted from data Sicilian cultural immaterial heritage (cf. NEPTIS project)

9) **[PPDB]** **PPDB ontology** `http://w3id.org/ppdb/ontology/` (Linguistic domain) An ontology describing the semantics of data in PPDB (cf. **[CON6]**)

10) **[OPLA-X]** **OPLa-X ontology** `https://w3id.org/OPLaX/` (Meta-model) OPLaX is an extended version of the OPLa ontology, which includes: (i) annotation properties from the original OPLa ontology; (ii) annotation properties from the Content Pattern annotation schema used in the ODP Portal; (iii) additional annotation properties for addressing the instance level (an instance of a pattern) and the conceptual component level (an abstract conceptual component grouping different patterns addressing it). (cf. WOP2021 paper **[WOR3]**)

11) **[SON]** **SPICE Ontology Network** `https://w3id.org/spice/SON` (Cultural Heritage domain) The SPICE Ontology Network (SON) aims to provide the ontological backbone for the representation of citizen curation activities. (cf. **[SPICE]**)

Software A list of the open source software frameworks I have developed and co-developed:

1) **[EDWIN]** **Edwin** (`https://github.com/luigi-asprino/edwin`) A software framework for building and analysing Equivalence Set Graphs (cf. **[CON4] [SHO7]**)

2) **[FOX]** **FOX** (`https://github.com/luigi-asprino/fox`) A software framework for assessing foundation distinction over linked data entities (cf. **[CON5]**)

3) **[FCONCEPTNET]** **framester-concepnet** (`https://github.com/luigi-asprino/framester-conceptnet`) A software tool for serializing ConceptNet in RDF (cf. **[CON6]**)

4) **[LIZARD]** **Lizard** (`https://github.com/luigi-asprino/lizard`) A tool for dynamically generating software object-oriented APIs for accessing knowledge graphs (cf. **[BOO1] [WOR5]**).

5) **[LODRH]** **LOD resource harvester** (`https://github.com/luigi-asprino/lod-resource-harvester`) A simple tool for harvesting LOD resources (cf. **[SHO6]**).

6) **[PPDB2RDF]** **PPDB2RDF** (`https://github.com/luigi-asprino/ppdb2rdf`) A tool for serialising Paraphrase Database (PPDB) in RDF format (cf. **[CON6]**)

7) **[REFACT]** **refact** (`https://github.com/luigi-asprino/refact`) A simple tool for refactoring RDF graphs by using SPARQL construct queries (cf. **[CON6]**)

8) **[ROCKSMAP]** **rocksmap** (`https://github.com/luigi-asprino/rocks-map`) A library for accessing RocksDB instances as Java Maps (cf. **[CON4] [SHO7]**)

9) **[SPARQLANYTHING]** **SPARQL Anything** (`https://sparql-anything.cc/`) SPARQL Anything is a system for Semantic Web re-engineering that allows users to query anything with SPARQL (cf. **[JOU4]**, **[CON2]** and **[MIS2]**)

Knowledge Graphs   A list of openly available Knowledge Graphs I have co-developed with an indication of the targeted domain:

1) **[ARCO-KG]** **ArCo Knowledge Graph** `https://w3id.org/arco` (Cultural heritage domain) the knowledge graph of the Italian cultural heritage collecting data extracted from the General Catalogue of the Italian Ministry of Cultural Heritage and Activities (MiBAC) (cf. **[SHO4]**).

2) **[ECODIGIT-KG]** **EcoDigit Knowledge Graph** `http://ecodigit.dtclazio.it` (Cultural heritage domain) a knowledge graph about people and organizations working in the cultural heritage domain and cultural properties located in the Lazio region (cf. **[SHO6]**).

3) **[FOOD-KG]** **FOOD** `https://w3id.org/food` (Agri-food domain) a knowledge graph on quality schemes for agriculture and food products extracted from policy documents (cf. **[CON8]**).

4) **[FOX-KG]** **FOX** `https://w3id.org/fox` (Common sense domain) an empirical foundational ontology of common sense extracted from data (cf. **[CON5]**).

10) **[FRAMESTER-KG]** **Framester** `https://w3id.org/framester` (Linguistic domain) A linked data hub integrating several linguistic and ontological resources such as WordNet, FrameNet etc. (cf. **[CON6]**)

5) **[LUOGHI-KG]** **Luoghi e eventi della Cultura** `http://dati.beniculturali.it/` (Cultural heritage domain) a knowledge graph about the Italian cultural sites (cf. **[CHA2]**)

6) **[NEPTIS-KG]** **NEPTIS** `http://w3id.org/neptis/resource/` (Cultural heritage domain) a knowledge graph of the Sicilian immaterial Cultural Heritage (cf. NEPTIS project)

7) **[PORTALE-KG]** **The Knowledge graph feeding the "Portale delle fonti per la storia della Repubblica italiana"** (Cultural heritage domain) A knowledge graph collecting metadata of historical documents about the Italian republic (cf. related project).

ROLES IN SCIENTIFIC EVENTS AND OTHER RESEARCH ACTIVITIES

Editorial board   I am a member of the editorial board of the Journal of Web Semantics (JoWS).

Memberships   I am a board member of the Association for Ontology Design and Patterns (ODPA).

I am a participant of the W3C's Knowledge Graph Construction Community Group.

Organising Committee Membership   A list of scientific events I have co-organised

2023   The First Conference on Extended Intelligence for Cultural Engagement - ExICE (role: Web presence, publicity and proceedings chair).

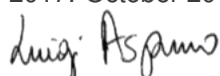The 14th Workshop on Ontology Design and Patterns - WOP2023 (role: Pattern co-Chair).

2021   The 11th International Conference on Knowledge Capture (role: Website Chair).

The 12th Workshop on Ontology Design and Patterns - WOP2021 (role: Pattern co-Chair).

2019   2nd International Semantic Web School, 30 June - 6 July 2019, Bertinoro (FC), Italy (role: Tutor Assistant).

2017   The 14th Extended Semantic Web Conference. May 28th 2017 - June 1st 2017. Portoroz, Slovenia (role: Semantic Technologies Coordinator).

Program Committee Membership

A list of international l conferences in which I served as a program committee member

2024   The Web Conference 2024 (Semantics and Knowledge track). Singapore

ESWC 2024 - Research Track. Hersonissos, Greece.

ESWC 2024 - Resource Track. Hersonissos, Greece.

The 23rd International Semantic Web Conference (ISWC 2024). Baltimore, USA.

2023   The Web Conference 2023 (Semantics and Knowledge track). Austin, TX, US

ESWC 2023. Hersonissos, Greece.

The 22nd International Semantic Web Conference (ISWC 2023). Athens, Greece.

2022   The Web Conference 2022 (Semantics and Knowledge track). Lyon, France

The 31st International Joint Conference on Artificial Intelligence and the 25th European Conference on Artificial Intelligence (IJCAI-ECAI 2022), Vienna, Austria.

The 21th International Semantic Web Conference 2022 (ISWC 2022), Hybrid.

WOP 2022. The 13th Workshop on Ontology and Semantic Web Pattern @ ISWC 2022. October 2022. Hybrid.

2021   The International Joint Conferences on Artificial Intelligence (IJCAI 2021), Online.

The 35th AAAI Conference on Artificial Intelligence (AAAI 2021), Online.

The 20th International Semantic Web Conference 2021 (ISWC 2021), Online.

Semantics 2021, Amsterdam, The Netherlands.

2020   International Semantic Web Conference 2020 (ISWC 2020), Athens, Greece.

ESWC 2020 - Poster and Demo Track, 2-4 June. 2020.

The 29TH ACM International Conference on Information and knowledge management (CIKM 2020), 19-23 Oct. 2020.

Semantics EU 2020, 7-10 Sept. 2020, Amsterdam, NL.

The Web Conference 2020 (Semantics and Knowledge track). 20-24 April 2020. Taipei

2019   The 15th International Conference, SEMANTiCS 2019, Karlsruhe, Germany, September 9–12, 2019.

WOP 2019. The 10th Workshop on Ontology and Semantic Web Pattern @ ISWC 2019. October 2019. Auckland, New Zealand.

The Sixth Italian Conference on Computational Linguistics (CLIC-it). 13-15 Nov. 2019. Bari, Italy.

2018   The 15th Extended Semantic Web Conference. Poster and Demo Track. ESWC 2018. June 3rd 2018 - June 7th 2018. Heraklion, Crete, Greece.

WOP 2018. The 9th Workshop on Ontology and Semantic Web Pattern @ ISWC 2018. October 2018. Monterey, California ,USA.

2017   The 16th International Semantic Web Conference.Poster and Demo Track. ISWC 2017. 21-25 October 2017. Vienna, Austria.

WOP 2017. The 8th Workshop on Ontology and Semantic Web Pattern @ ISWC 2017. October 2017. Vienna, Austria.

Poster and Demo Track. ESWC 2017. The 14th Extended Semantic Web Conference. May 28th 2017 - June 1st 2017. Portoroz, Slovenia.

2016　EKAW 2016. The 20th International Conference on Knowledge Engineering and Knowledge Management. 19-23 November 2016. Bologna, Italy.

Pattern Track. WOP 2016. The 7th Workshop on Ontology and Semantic Web Pattern @ ISWC 2016. 18th October 2016. Kobe, Japan.

Poster and Demo Track. ISWC 2016. The 15th International Semantic Web Conference. 17-21 October 2016. Kobe, Japan.

Reviewer　*Journals*: Journal of Web Semantics, Journal of Applied Ontologies, Journal of Data Semantics, Semantic Web Journal, ACM Journal on Computing and Cultural Heritage.

Conference and Workshops: ESWC 2016 Posters and Demos, IJCAI 2017, KSEM 2017, ER 2017, IJCAI 2018, IJCAI 2018, IEEE Big Data Congress 2018, AAAI 2019.

INSTITUTIONAL ACTIVITIES

Selection committees

20 Jun 2024　Member of the Selection Committee for the Teaching Assignment Call (ref. 154987 - Department of Moder Languages, Literatures, and Cultures - University of Bologna)

22 Nov 2023　Member of the selection committee for the call for assigning a research assistant position position (ref. ass-fil2023-7 - Dipartimento di Filologia, Letteratura e Linguistica - University of Pisa)

6 Sep 2023　Member of the selection committee for the call for assigning a research assistant position position (ref. ISTC-AdR-368- 2023-RM - Istituto di Scienze e Tecnologie della Cognizione)

16 Dec 2022　Member of the selection committee for the call for assigning a post-doc position (ref. ISTC-AdR-327-2022-RM - Istituto di Scienze e Tecnologie della Cognizione)

25 Nov 2022　Member of the selection committee for assigning a tutor position (tutorato) for the a.y. 2022/23 - bando rep. n. 6884 Prot. 283544 del 2/11/2022 - Università di Bologna

27 Oct 2022　Member of the selection committee for the call for assigning a CTER position (ref. 367.281 CTER SAC - Consiglio Nazionale delle Ricerche)

21 Mar 2022　Member of the selection committee for assigning a tutor position (tutorato) for the a.y. 2021/22 - bando rep. n. 1073 Prot. 40606 del 22/02/2022 - Università di Bologna

16 Feb 2022　Member of the selection committee for the call for assigning a post-doc position (ref. Protocollo num. 37 Rep. 1 Fascicolo 6097060 del 18/01/2022 - Univerisità di Bologna)

12 Jan 2022　Member of the selection committee for the call for assigning a research assistant position (ref. Protocollo num. 2143 Rep. 3 Fascicolo 6420332 del 06/12/2021 - Univerisità di Bologna)

17 Dec 2021   Member of the selection committee for assigning a tutor position (tutorato) for the a.y. 2021/22 - bando rep. n. 7870 Prot. n. 299568 del 24/11/2021 - Università di Bologna

21 May 2021   Member of the selection committee for the call for assigning a research assistant position (ref. ISTC-AdR-299- 2021-RM del 28/04/2021 - Istituto di Scienze e Tecnologie della Cognizione)

CONSULTING

Oct 2022   Revision of Computer Science Questionnaire for Ales s.r.l.

PERSONAL SKILLS

Mother tongue   Italian

Other languages

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
C1	C1	C1	C1	C1

(English)

Preliminary English Test (PET) - University of Cambridge ESOL Examination

Date of Examination: June (B) 2006. Place of Entry: Castrovillari (CS)

Reference Number: 066IT0805028. Accreditation Number: 100/2031/7

Date of Issue 17/07/06 Certificate Number 0015892122

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user
Common European Framework of Reference for Languages

Driving licence   B

European Computer Driving License (ECDL)   ECDL Test Passed on 30/05/2006 (Ref. IT1129942)

ADDITIONAL INFORMATION

Technical Skills   Skills are self-assessed by using the following rating scale: 5-Expert, 4-Professional, 3-User, 2-Learner, 1-Newbie.
Programming Languages: Java (Expert), Python (User), C++ (Newbie), C (Learner)
Web Languages and Formats: HTML (Expert), XML (Expert), Javascript (Expert), PHP (Newbie), XSL (User), JSON (Expert), CSV (Expert)
Semantic Web Languages: RDF (Expert), OWL (Expert), SPARQL(Expert), RDF-HDT (Expert)
Databases: MySQL (User), RocksDB (User), PostgreSQL (User)
Semantic Web Technologies: Apache Jena (Expert), Fuseki (User), Virtuoso (User), LODView (User), D2RQ (User), LODE (User), Protege (User), RML (User), SPARQL Generate (User)
textbfMachine Learning Technologies: WEKA (User), TensorFlow (Newbie), gensim (User), scikit-learn (User)
Business Process Modelling Languages: BPMN (User), PROForma (Learner)
Modelling Graphical Languages: ER (User), UML (User), ODM (User), Graffoo (User)
IDE: Eclipse (User), Netbeans (User), IntelliJIDEA (User), PyCharm (User)
Diagrams editors: Yed (User), Microsoft Visio (User), Bizagi (User)
Versioning: Git (User), SVN (User)
Logic programming: Prolog (Newbie)
Other Frameworks I have been using (as "User"): Apache Web Server, Docker, Apache Manifold, Apache ActiveMQ, WSO API Manager, Bootstrap, D3Js, eXistDB, JCodeModel, Jersey, Jetty Server, Swagger, CrowdFlower (FigureEight), Stanford CoreNLP, NLTK, ApacheMaven, Latex