

ARMANDO STELLATO

CURRICULUM VITAE

PERSONAL INFORMATION

Name	ARMANDO STELLATO
Nationality	Italian
Place and Date of Birth	
Tax Code	
Work Address	Department of Enterprise Engineering, University of Rome, Tor Vergata, Via del Politecnico 00133 ROMA (ITALY)
Work Phone	+39 0672597330 (office) / +39 0672597332 (lab)
E-mail	stellato@uniroma2.it
Web Page	http://art.uniroma2.it/stellato

CURRENT POSITION

Name and Address of the Employer	Università degli Studi di Roma Tor Vergata, Via Cracovia 50, 00133, Roma
Job Title	Associate Professor at Università degli Studi di Roma, Tor Vergata
Main Activities and Responsibilities	▪ Scientific Research (1) ▪ Teaching (1) ▪ Projects Coordination and Management (1) ▪ Technical-Scientific Consultancy in the area of Linked Data, Linked Data Publication, Knowledge Modeling and Management, Software Engineering (2)

ACADEMIC EDUCATION

2022, July 22 - present	Associate Professor at Università degli Studi di Roma "Tor Vergata"
2019, July 22 – 2022, July 21	Assistant Professor at Università degli Studi di Roma "Tor Vergata" (RTD-B)
2018, October, 8 – 2019, July 22 and 2013, May the 2 nd – 2018, May, 1 st	Assistant Professor at Università degli Studi di Roma "Tor Vergata" (RTD-A)
2012, July – 2013, February	Research Fellow
2009, September – 2015, March	Consultant for the Food and Agriculture Organization (FAO) of the United Nations
2006, 17 October – 2011 February	Research Associate
2006, 16 May	PhD in Ingegneria Informatica e dell'Automazione at Università degli studi di Roma Tor Vergata
2002, September	Title of Engineer (able to conduct professional activity as an Engineer)
2002, 3 April	Full Diplom (MSc) in Engineering, Computer Science at the University of Rome, Tor Vergata Dissertation: Ontological Mediation between Linguistic Agents

RESEARCH INTERESTS

Research Activity

I am associate professor, since July 2022, at the Department of Enterprise Engineering of the University of Rome Tor Vergata and member of the Artificial Intelligence group at Tor Vergata (ART) since 2002.

My research activity revolves around the areas of Knowledge Engineering Knowledge Acquisition and Knowledge Based Systems, bringing in solutions and approaches from the fields of Machine Learning, Natural Language Processing and Software Engineering.

My PhD thesis, in 2004, focused on semantic integration at large, through the exploitation of lexical information and resources, and envisioning a future web in which lexical resources would play a fundamental role in semantic mediation activities, performed by autonomous agents being able to identify the context of a communication between peers and support with their reconciliation skills. Today, part of this vision is becoming true, thanks to initiatives such as the Linguistic Linked Open Data (<http://www.linguistic-lod.org/>) and to models for representation of lexical knowledge such as OntoLex-Lemon (<https://www.w3.org/community/ontolex/>) to the development of which I actively participated. The other part, the lexical/semantic mediation, which I described also in a later work [16] following my PhD dissertation, is still a vision, though the building blocks for its realization are also being laid down. The metadata module of OntoLex, called LIME (LInguistic METadata) [22], which I contributed to the OntoLex working group, is in fact bringing to a standard much of the ideas I described 10 years before.

My proficiencies in Software Engineering have been useful in identifying reproducible processes and actors that can enable interesting ecosystems for carrying out AI tasks such as Knowledge Acquisition and Integration on an industry scale. I am leading the CODA project (<http://art.uniroma2.it/coda/>) with the intent to give birth to a reusable platform for knowledge acquisition from unstructured content, building on top of already existing platforms for Unstructured Information Management such as Apache UIMA (<http://uima.apache.org/>). CODA applies the same principles of the Semantic Web (e.g. “everything is a URI”, “follow your nose”, etc..) to a platform for sharing Knowledge Acquisition components associated to target ontologies and being described themselves in terms of ontology vocabularies. CODA is not yet mature for the “community vision” representing its ultimate direction, though it already represents a useful piece of software adopted in other more notable projects, such as Semantic Turkey [15] and VocBench [5][37].

VocBench, a collaborative web-platform for knowledge management and acquisition based on Semantic Web standards, represents a successful open-source project that has gathered a large community of stakeholders, ranging from scientists to companies and large organizations producing linked open data. My experiences with international organizations (which led to the following results [10][12][13]) convoluted into the project together with my expertise in Knowledge Engineering, towards the realization of a platform offering innovative research results while keeping steadily on the ground of the requirements expressed by this community. Since the end of 2020, VocBench is being accompanied by ShowVoc, a complementary system born with knowledge sharing and publication in mind.

A further area of interest, unfortunately only lightly touched in my research life, is represented by Information Retrieval in Music, with particular attention to symbolic notation and the identification of music genre and other related categories. The analysis of music pieces expressed through symbolic notation (as in the MIDI format, or other standards such as MusicXML) allows the researcher to focus on the most inherent structural and semantic aspects of music, disburdened from the influence that the sound spectrum also has.

In my short participation to the Music IR community, I have managed to participate to a Information Categorization contest, with interesting results [89] and to publish a work on Music IR based on Machine Learning techniques [92] which is still today one of the most cited work in the area.

Activity in Industry

I'm the legal owner of Lore Star srl, a company acting on development and consultancy in the fields of Semantic Web, NLP and Knowledge Based Systems.

I'm also one of the 5 associates of DEVIT srls, a university spin-off working on other related topics of my research activity. The company is currently under procedure of accreditation as an official spin-off of the University of Rome Tor Vergata

SCIENTIFIC PUBLICATIONS

Bibliometric Indices

Based on Google Scholar: <https://scholar.google.it/citations?user=zqXIClOAAAAAJ&hl=it>

h-index: 20

i10-index: 40

on Scopus: h-index: 14

Journals

- [1] Stellato, A., Fiorelli, M.: LegalHTML: Semantic mark-up of legal acts using web technologies. *Computer Law & Security Review* 51(105888) (2023)
- [2] A. Stellato e M. Fiorelli, «LegalHTML: Semantic Mark-up of Legal Acts using Web Technologies,» *Computer Law & Security Review*, vol. 51, 2023
- [3] Imma Subirats-Coll et al., "AGROVOC: The Linked Data Concept Hub for Food and Agriculture," *Computers and Electronics in Agriculture*, 2022.
- [4] C. Caracciolo, S. Aubin, C. Jonquet, E. Amdouni, R. David, L. Garcia, B. Whitehead, C. Roussey, A. Stellato e F. Villa, "39 Hints to Facilitate the Use of Semantics for Data on Agriculture and Nutrition" *Data Science Journal*, DOI: 10.5334/DSJ-2020-047, vol. 19, n. 1, p. 47, 2020.
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- [7] Manuel Fiorelli, Maria Teresa Pazienza, Armando Stellato, and Andrea Turbati, Version Control and Change Validation for RDF Datasets, Metadata and Semantic Research, *Communications in Computer and Information Science* vol. 755, Springer International Publishing, pp. 1-12, 2017. doi:10.1007/978-3-319-70863-8_1
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- [9] Manuel Fiorelli, Maria Teresa Pazienza, Armando Stellato. A Flexible Approach to Semantic Annotation Systems for Web Content. *Intelligent Systems in Accounting, Finance and Management*. DOI: 10.1002/isaf.1362. 22,65–79, 2015
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- [11] M. Fiorelli, M.T. Pazienza, A. Stellato and A. Turbati CODA: Computer-aided ontology development architecture, *IBM Journal of Research and Development*, doi:10.1147/JRD.2014.2307518, 58, 2, 1-12, March, 2014
- [12] Caterina Caracciolo, Armando Stellato, Ahsan Morshed, Gudrun Johannsen, Sachit Rajbhandari, Yves Jaques and Johannes Keizer The AGROVOC Linked Dataset, *Semantic Web Journal*, doi:10.3233/SW-130106, 4, 3, 341–348,2013
- [13] Caterina Caracciolo, Armando Stellato, Ahsan Morshed, Gudrun Johannsen, Sachit Rajbhandari, Yves Jacques and Johannes Keizer Thesaurus Maintenance, Alignment and Publication as Linked Data - The AGROVOC Use Case, *International Journal of Metadata, Semantics and Ontologies*, pp. 65-75, v. 7, Issue 1, Inderscience Publishers, DOI:

[14] Armando Stellato, Dictionary, Thesaurus or Ontology? Disentangling our choices in the Semantic Web Jungle. *Journal of Integrative Agriculture*. Volume 11, Issue 5, Pages 710–719. Elsevier (publ.). [http://dx.doi.org/10.1016/S2095-3119\(12\)60060-4](http://dx.doi.org/10.1016/S2095-3119(12)60060-4). May 2012.

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Books

[17] Pazienza, M., Stellato, A., eds.: *Semi-Automatic Ontology Development: Processes and Resources*. IGI Global, ref: <http://www.igi-global.com/book/semi-automatic-ontology-development/58294>), 376 pp, DOI: 10.4018/978-1-4666-0188-8, ISBN13: 9781466601888, ISBN10: 1466601884, EISBN13: 9781466601895, IGI Global (publ.) February, 2012

Book Chapters

[18] Andreea Diosteanu, Armando Stellato, Andrea Turbati SODA A Service Oriented Data Acquisition Framework, in (M.T.Pazienza, A. Stellato, eds.) *Semi-Automatic Ontology Development: Processes and Resources*; doi:10.4018/978-1-4666-0188-8.ch003, pp 48-77 IGI Global (publ.), February, 2012

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[20] Wehnert, S., Fiorelli, M., Picca, D., De Luca, E.W., Stellato, A.: LIRAI'24: 2nd Workshop on Legal Information Retrieval meets Artificial Intelligence., New York, NY, USA, pp.390–392 (2024)

[21] De Luca, E.W., Fiorelli, M., Picca, D., Stellato, A., Wehnert, S.: *Legal Information Retrieval meets Artificial Intelligence (LIRAI)*., New York, NY, USA (2023)

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[22] Stellato, A., Fiorelli, M., Lorenzetti, T., Turbati, A.: Lifting Spreadsheets Made Easy: Combining Power and Magic in Sheet2RDF. In Garoufallou, E., Sartori, F., eds. : *Metadata and Semantic Research*. In proceedings of the Metadata and Semantic Research Conference (MTSR 2023). *Communications in Computer and Information Science*. 2048. Springer Nature Switzerland (2024), pp.135-146

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- [28] M. Fiorelli e A. Stellato, «Lifting Tabular Data to RDF: A Survey,» in Communications in Computer and Information Science, vol. 1355 CCIS, Madrid, Springer Science and Business Media Deutschland GmbH, 2021, pp. 85-96. Proceedings of the 14th Metadata and Semantic Research International Conference, MTSR 2020
- [29] M. Fiorelli, A. Stellato, T. Lorenzetti, A. Turbati, P. Schmitz, E. Francesconi, N. Hajlaoui e B. Batouche, «Editing OntoLex-Lemon in VocBench 3,» in LREC 2020 - 12th International Conference on Language Resources and Evaluation, Conference Proceedings, N. Calzolari, F. Bechet, P. Blache, K. Choukri, C. Cieri, T. Declerck, S. Goggi, H. Isahara, B. Maegaard, J. Mariani, H. Mazo, A. Moreno, J. Odijk e S. Piperidis, A cura di, European Language Resources Association (ELRA), pp. 7194-7203
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- [32] Schmitz, P., Francesconi, E., Hajlaoui, N., Batouche, B., Stellato, A., Semantic interoperability of multilingual language resources by automatic mapping. Proceedings of EGOVIS 2018. Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics) 11032 LNCS, pp. 153-163, 2018
- [33] Armando Stellato, Manuel Fiorelli, Andrea Turbati, Tiziano Lorenzetti, Peter Schmitz, Enrico Francesconi, Najeh Hajlaoui, Brahim Batouche. Dataset Alignment and Lexicalization to Support Multilingual Analysis of Legal Documents. Series: Lecture Notes in Computer Science and Lecture Notes in Artificial Intelligence, volume 10791. International Workshop on AI Approaches to the Complexity of Legal Systems (AICOL 2017). Springer Cham, pp 257-271 (2018)
- [34] Fiorelli, M., Lorenzetti, T., Pazienza, M.T., Stellato, A.: Assessing VocBench Custom Forms in Supporting Editing of Lemon Datasets. In: Language, Data, and Knowledge. Series: Lecture Notes in Computer Science. First International Conference, LDK 2017, Galway, Ireland, June 19-20, 2017, Proceedings. 10318. Springer Cham, Galway, Ireland (2017), pp.237-252
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for Collaborative Development of Multilingual Thesauri. 12th Extended Semantic Web Conference, ESWC2015, Portoroz, Slovenia, 31st May – 4th June, 2015,

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- [68] Maria Teresa Pazienza, Armando Stellato and Andrea Turbati PEARL: ProjEction of Annotations Rule Language, a Language for Projecting (UIMA) Annotations over RDF Knowledge Bases, International Conference on Language Resources and Evaluation (LREC 2012), Istanbul, May, 2012
- [69] Caterina Caracciolo, Ahsan Morshed, Armando Stellato, Gudrun Johannsen and Johannes Keizer Thesaurus Maintenance, Alignment and Publication as Linked Data. The AGROVOC use case. In Proceedings of the Metadata and Semantics Research Conference 2011 (MTSR2011) Yaşar University, İzmir, Turkey, October 12-14, 2011
- [70] Johannes Keizer, Armando Stellato, Ahsan Morshed, Gudrun Johannsen, Yves Jacques, Caterina Caracciolo, Sachit Rajbhandari and Imma Subirats. A Collaborative Framework for Managing and Publishing KOS, The 10th European Networked Knowledge Organisation Systems (NKOS) Workshop, Berlin, Germany, September, 2011
- [71] Manuel Fiorelli, Maria Teresa Pazienza, Steve Petruzza, Armando Stellato and Andrea Turbati Computer-aided Ontology Development: an integrated environment, New Challenges for NLP Frameworks 2010 (held jointly with LREC2010), Mediterranean Conference Centre, Valletta, Malta, May, 18, 2010
- [72] Armando Stellato, Heiko Stoermer, Stefano Bortoli, Noemi Scarpato, Andrea Turbati, Paolo Bouquet and Maria Teresa Pazienza Maskkot – An Entity-centric Annotation Platform In Proceedings of the International Conference on Language Resources and Evaluation (LREC 2010) Mediterranean Conference Centre, Valletta, Malta May 19-21, 2010
- [73] Maria Teresa Pazienza, Noemi Scarpato, Armando Stellato, Andrea Turbati A Desktop-Integrated Semantic Platform for Personal Information Management, Workshop on Semantic

- [74] Marco Bianchi, Mauro Draoli, Giorgio Gambosi, Maria Teresa Pazienza, Noemi Scarpato and Armando Stellato ICT tools for the discovery of semantic relations in legal documents , 2nd International Conference on ICT Solutions for Justice, Skopje, Macedonia, September, 24th, 2009
- [75] Francesca Fallucchi, Maria Teresa Pazienza, Noemi Scarpato, Armando Stellato. Semantic Turkey: A new web experience in between Ontology Editing and Semantic Annotation. To Proceedings of the Fourth International Conference on Web Information Systems and Technologies (WEBIST 2008), Funchal, Madeira – Portugal, 4-7 May, 2008
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- [77] Savino Sguera, Philippe Ombredanne, Maria Teresa Pazienza, Armando Stellato. Software Semantic Provisioning: Actually Reusing Software. Proceedings of the Third International Conference on Evaluation of Novel Approaches to Software Engineering (ENASE 2008), Funchal, Madeira – Portugal, 4-7 May, 2008
- [78] Maria Teresa Pazienza, Armando Stellato, Alexandra Tudorache. JMWNL: An extensible multilingual library for accessing wordnets in different languages. Proceedings of the Sixth International Conference on Language Resources and Evaluation (LREC 2008), Marrakech (Morocco), 28-30 May, 2008
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- [82] Armando Stellato, Alessandro Oltramari. Enriching Ontologies with Linguistic Content: an Evaluation Framework. Fourth Workshop on Interfacing Ontologies and Lexical Resources for Semantic Web Technologies (OntoLex2008), Marrakech (Morocco), 31 May, 2008
- [83] Maria Teresa Pazienza, Armando Stellato, Alexandra Tudorache. Flames, Risk Discussions, No Flames Recognition in Forums. Workshop on Sentiment Analysis: Emotion, Metaphor, Ontology and Terminology (EMOT 2008) 27 May, 2008, Marrakech, Morocco
- [84] Maria Teresa Pazienza, Armando Stellato, Fabio Massimo Zanzotto NEED New E-learning Environment and Demonstrators TICE Méditerranée 2007 (TICEMED 2007) Campus Scientifique de Saint Jérôme de l'Université Paul Cézanne, Marseille, May 31-June 2, 2007
- [85] Maria Teresa Pazienza, Armando Stellato. Exploiting Linguistic Resources for building linguistically motivated ontologies in the Semantic Web. Second Workshop on Interfacing Ontologies and Lexical Resources for Semantic Web Technologies (OntoLex2006), held jointly with LREC2006, Magazzini del Cotone Conference Center, Genoa, Italy, 24-26 May 2006
- [86] Maria Teresa Pazienza, Armando Stellato. Linguistic Enrichment of Ontologies: a methodological framework. Second Workshop on Interfacing Ontologies and Lexical

Resources for Semantic Web Technologies (OntoLex2006), held jointly with LREC2006, Magazzini del Cotone Conference Center, Genoa, Italy, 24-26 May 2006

- [87] Maria Teresa Pazienza, Armando Stellato The Protégé Ontoling Plugin - Linguistic Enrichment of Ontologies in the Semantic Web. *In Poster&Demo proceedings of 4th International Semantic Web Conference (ISWC-2005)* Galway, Ireland, November, 2005
- [88] Maria Teresa Pazienza, Armando Stellato, Lina Henriksen, Patrizia Paggio, Fabio Massimo Zanzotto Ontology Mapping to support multilingual ontology-based question answering *In Poster&Demo proceedings of 4th International Semantic Web Conference (ISWC-2005)* Galway, Ireland, November, 2005
- [89] Roberto Basili, Alfredo Serafini, Armando Stellato Extracting Music Features With MidXLog 1st Music Information Retrieval Evaluation eXchange (MIREX2005) held in conjunction with the 6th ISMIR Conference London, UK, September 14, 2005
- [90] Maria Teresa Pazienza, Armando Stellato, Lina Henriksen, Patrizia Paggio, Fabio Massimo Zanzotto Ontology Mapping to support ontology-based question answering Proceedings of the second MEANING workshop Trento, Italy, February, 2005
- [91] M. T. Pazienza, A. Stellato, M. Vindigni, F. M. Zanzotto "XeOML: An XML-based extensible Ontology Mapping Language", Workshop on Meaning Coordination and Negotiation, held in conjunction with 3rd International Semantic Web Conference (ISWC-2004) Hiroshima, Japan, November 8, 2004
- [92] R. Basili, A. Serafini, A. Stellato "Classification of Musical Genre: A Machine Learning Approach" ISMIR 2004: 5th International Conference on Music Information Retrieval Barcelona, Spain, October 13, 2004
- [93] F.M. Zanzotto, A. Stellato "Exploiting the Semantic Fingerprint for Tagging "Unseen" Words", Beyond Named Entity Recognition: Semantic labelling for NLP tasks Workshop held jointly with LREC2004 LISBON, Portugal, May 2004
- [94] M.T. Pazienza, A. Stellato, M. Vindigni, "Purchasing the Web: an Agent based E-retail System with Multilingual Knowledge" WI2003 Workshop on Applications, Products and Services of Web-based Support Systems Halifax, Canada, October 13, 2003.
- [95] M.T. Pazienza, A. Stellato, M. Vindigni "Combining Ontological Knowledge and Wrapper Induction techniques into an e-retail System" ATEM2003 Workshop on Adaptive Text Extraction and Mining, Cavtat-Dubrovnik, Croatia, September 22, 2003.
- [96] Manuel Fiorelli, Armando Stellato, Tiziano Lorenzetti, Andrea Turbati, Peter Schmitz, Enrico Francesconi, Najeh Hajlaoui, Brahim Batouche. Towards OntoLex-Lemon editing in VocBench 3. XXVIII Convegno Internazionale ASS.I.TERM Terminologie e risorse linguistiche per comunicare in Europa. Salerno, 17-18 Maggio, 2018
- [97] Stellato, A., Stoermer, H., Bortoli, S., Scarpato, N., Turbati, A., Bouquet, P., et al. (2010). MASKKOT: A Tool for Annotating Entities through the OKKAM Service. In Proceedings of the 6th Workshop on Semantic Web Applications and Perspectives (SWAP2010). Bressanone, Italy
- [98] Maria Teresa Pazienza, Armando Stellato, Andrea Turbati Linguistic Watermark 3.0: an RDF framework and a software library for bridging language and ontologies in the Semantic Web Semantic Web Applications and Perspectives, 5th Italian Semantic Web Workshop (SWAP2008) s-UN, Rome, Italy, 15-17 December, 2008
- [99] Maria Teresa Pazienza, Noemi Scarpato, Armando Stellato, Andrea Turbati Din din! The (Semantic) Turkey is served! Semantic Web Applications and Perspectives, 5th Italian Semantic Web Workshop (SWAP2008) FAO-UN, Rome, Italy, 15-17 December, 2008

National Conferences

- [100] Alessandro Oltramari and Armando Stellato. Ontologies and Linguistic Resources: Integration, Representation, Settings and Objectives. 10th Congress of Italian Association for Artificial Intelligence (AIIA2008) Cagliari, Italy, September 10-12, 2008
- [101] S. Sguera, A. Stellato, P. Ombredanne, M. T. Pazienza. Software Semantic Provisioning: actually reusing software Semantic Web Applications and Perspectives, 4th Italian Semantic Web Workshop (SWAP2007) Bari, Italy, December 18-20, 2007
- [102] D. Griesi, M. T. Pazienza, A. Stellato Gobbleing over the Web with Semantic Turkey Semantic Web Applications and Perspectives, 3rd Italian Semantic Web Workshop (SWAP2006), Scuola Normale Superiore, PISA, 18-20 December, 2006
- [103] S. Sguera, A. Stellato, D. Griesi, M.T. Pazienza. "J-ALINAs: A JADE-based Architecture for Linguistic Agents" Dagli oggetti agli agenti (WOA2006), Catania (Italy), 26/27 September 2006
- [104] Maria Teresa Pazienza, Armando Stellato Linguistically motivated Ontology Mapping for the Semantic Web Semantic Web Applications and Perspectives, 2nd Italian Semantic Web Workshop (SWAP2005) Trento, Italy, December 14-16, 2005
- [105] M.T. Pazienza, A. Stellato, M. Vindigni "ALINAs: un'architettura multilayer ad agenti per il supporto alla comunicazione linguistica" Dagli oggetti agli agenti (WOA2002), Milano (Italy), 18 November 2002

TEACHING:

Academic Boards

- Member, from 2022, of the board for the PhD in "Data Science" of the University of Rome Tor Vergata. (<https://datasciencephd.uniroma2.it/collegio-docenti/>)
- Member, from 2018 to 2019, of the board for the PhD in "Enterprise Engineering" of the University of Rome Tor Vergata.

Academic Teaching

- Teaching course on Ingegneria della Conoscenza (Knowledge Engineering) for the Computer Science faculty at University of Rome Tor Vergata (A.A. 2021-22, 2022-23)
- Teaching course on Intelligenza Artificiale 2 (Artificial Intelligence 2) for the Computer Science faculty at University of Rome Tor Vergata (A.A. 2019-20, 2020-21, 2021-22)
- Teaching course on Linguaggi e Metodologie di Programmazione – 1° emicorso, Programmazione OO (Languages and Methodologies of Programming – 1° emi-course: OO Programming) for the Computer Science faculty at the university of Rome Tor Vergata (A.A. 2013-14, 2014-15, 2015-16, 2016-17, 2017-18, 2018-19, 2020-21, 2021-22)
- Teaching course on Fondamenti di Informatica II (online) (Computer Science Fundamentals) for the Engineering of Computer Science faculty at the university of Rome Tor Vergata (A.A. 2005-2006, 2006-2007, 2007-2008, 2008-2009, 2009-2010)
- Docente di corso integrativo dal titolo "Supporti alla gestione di ontologie" per il corso ufficiale di "Gestione dei Dati e della Conoscenza", presso la Facoltà di Ingegneria dell'Università di Roma "Tor Vergata", per il corso di laurea in Ingegneria Informatica (AA. 2008-2009, 2009-2010)
- Docente del corso di "Elementi di Informatica" presso la Facoltà di Lettere dell'Università di Roma "Tor Vergata". Il corso è stato impartito nell'ambito di un Master in "Gestione della produzione audiovisiva". Argomenti del corso: Fondamenti di Informatica, Basi di dati, gestione di file Multimediali (AA. 2005-2006, 2007-2008).
- Docente di corso integrativo dal titolo "Supporti alla gestione di ontologie" per il corso ufficiale di "Sistemi basati su Conoscenza", presso la Facoltà di Ingegneria dell'Università di Roma

“Tor Vergata”, per il corso di laurea in Ingegneria Informatica (AA. 2004-2005, 2005-2006, 2006-2007, 2007-2008)

- Docente di corso integrativo dal titolo “Parser robusti per sistemi NLP” per il corso ufficiale di “Intelligenza Artificiale”, presso la Facoltà di Ingegneria dell'Università di Roma “Tor Vergata”, per il corso di laurea in Ingegneria Informatica (AA. 2007-2008, 2008-2009, 2009-2010)
- Docente di corso integrativo dal titolo “Sistemi Di Elaborazione Delle Informazioni” per il corso ufficiale di “Sistemi Di Elaborazione Delle Informazioni”, presso la Facoltà di Medicina dell'Università di Roma “Tor Vergata”, per il corso di laurea in Ingegneria Informatica (AA. 2007-2008, 2008-2009, 2009-2010)
- Docente di corso integrativo dal titolo “Strutture dati evolute in C++” per il corso ufficiale di “Fondamenti di Informatica 2”, corso di laurea in Ingegneria Informatica, presso la Facoltà di Ingegneria dell'Università di Roma “Tor Vergata”, per il corso di laurea in Ingegneria Informatica (AA. 2001-2002, 2002-2003)
- Docente di corso integrativo dal titolo “Strutture dati evolute in C++” per il corso ufficiale di “Fondamenti di Informatica 2”, corso di laurea in Ingegneria Gestionale, presso la Facoltà di Ingegneria dell'Università di Roma “Tor Vergata”, per il corso di laurea in Ingegneria Informatica (AA. 2001-2002, 2002-2003)
- Esercitatore a contratto nel corso di Fondamenti di Informatica I presso la Facoltà di Economia dell'Università di Brescia (A.A. 2004-2005)
- Esercitatore del corso di Fondamenti di Informatica II presso la Facoltà di Ingegneria dell'Università di Roma Tor Vergata, per il corso di laurea in Ingegneria Informatica (A.A. 2003-2004, 2004-2005)
- Esercitatore nel corso di “Abilità Informatiche” presso la Facoltà di Lettere dell'Università di Roma “Tor Vergata”, per tutti i corsi di laurea in Lettere (AA. 2004-2005, 2005-2006)
- Attività didattica integrativa nel corso di “Laboratorio di Applicazioni Informatiche” presso la Facoltà di Ingegneria dell'Università di Roma Tor Vergata, per il corso di laurea in Ingegneria Informatica (A.A. 2009-2010)
- Attività didattica integrativa nel corso di “Basi di Dati” presso la Facoltà di Ingegneria dell'Università di Roma Tor Vergata, per il corso di laurea in Ingegneria Informatica (A.A. 2003-2004)
- Attività didattica integrativa nel corso di “Fondamenti di Informatica I” presso la Facoltà di Ingegneria dell'Università di Roma Tor Vergata, per il corso di laurea in Ingegneria Informatica (A.A. 2003-2004)
- Attività didattica integrativa nel corso di “Intelligenza Artificiale” presso la Facoltà di Ingegneria dell'Università di Roma Tor Vergata, per il corso di laurea in Ingegneria Informatica (A.A. 2002-2004)
- Attività didattica integrativa nel corso di “Sistemi Basati su Conoscenza” presso la Facoltà di Ingegneria dell'Università di Roma Tor Vergata, per il corso di laurea in Ingegneria Informatica (A.A. 2002-2003)
- Course on Open Data for the P.A., in the area “Gestione e Trasparenza dei Dati Informatici delle PA (Open Data)”, title: “da Open Data a Linked Open Data: un percorso a 5 stelle per dati aperti”. Held at the University of Rome Tor Vergata, and funded by the Istituto Nazionale di Previdenza Sociale (INPS) in the context of the “Valore PA” initiative.
- Course on “Foundamentals of Java technology”, client Banca D'Italia, on behalf of Performa s.r.l. (2003)
- Course on “Java Programming”, on behalf of Performa s.r.l. (2003)

Teaching in/for Industry/Public
Administration

SCIENTIFIC COLLABORATIONS WITH ORGANIZATIONS, RESEARCH CENTERS AND INDUSTRY

Direction of Collaboration Activities
with Public and Private Institutions

- Course on "Databases and Microsoft Access" for RAI (Radio Audizioni Italiane), on behalf of Performa s.r.l. (2002)
- Diverse teaching duties in the area of Office Automation and Programming in the year before 2002

- FAO (2009-2015): scientific consultancy for the Food and Agriculture Organization (FAO), as Semantic Architect. The subject of the collaboration concerned:
 - Remodeling of FAO thesauri and vocabularies (AGROVOC, Authority Control System, Biotech, Land and Water) by adopting W3C ontology and thesauri modeling vocabularies (RDFS, OWL, SKOS, SKOS-XL)
 - Publishing the above vocabularies according to Linked Open Data Best practices
 - VocBench thesauri management platform (until version 1.3, before developed of VocBench v2.0 was completely taken in charge by me and my research group)
 - Identifying and solving performance issues
 - Revising the architecture
- Scientific/technology consultancy for Camporlecchio Educational, in the area of Knowledge Representation and Systems for Knowledge Management (2006-2007)
- Scientific/technology consultancy for E.S.E Engineering, in the area of Knowledge Representation and Systems for Knowledge Management (2006-2007)

Knowledge Transfer, Studies and
Development for Organizations and
Industries

- Service contracts (1st in 2017, 2nd in 2018. Then a three years contract (then amended and extended for further 2 years) since 2019 in between FAO (customer) and University of Rome Tor Vergata (provider), coordinated by me, for maintenance and publication of the Agrovoc linked open dataset and other related resources
- FAO&Tor Vergata Framework Agreement: scientific coordinator in four letter of agreements between the University of Rome Tor Vergata and the Food and Agriculture Organization of the United Nations (FAO) for the realization of the collaborative editing platform VocBench. (1st Letter of Agreement in 2018, duration: 1 year, 2nd Letter of Agreement, 2019, duration 1year, third LoA in 2021, duration 18 months, fourth LoA in 2023 until June 2024). Topic: supporting the development and publication as Linked Open Data of domain vocabularies for Statistics
- Consultancy for a conjoint work for United Nations / European Parliament (funded by the EP) with the aim of defining a distributed architecture based on Linked Open Data for the management of document bases for the two organizations (September 2018, January 2019).
- Consultancy for GelbeSeiten (German Yellow Pages) for the realization of a porting of their yellow pages thesaurus on RDF, adopting different standards such as OWL/SKOS/SKOS-order to manage the content of their thesaurus through the VocBench 3 platform (February-March/2018)XL, other RDF vocabularies (iso-thes) and developing new custom ones for their needs, in

- Collaboration with agency “Fondazione con il Sud” concerning the supervision of the development works for the platform Chairos for the management of calls for tender, performed by company Intema(15/12/2016-31/12/2017)
- Collaboration with agency “Fondazione con il Sud” concerning 3 different scopes: 1) support to drafting of specifications for a call for tender for the development of a platform for the management of call for tenders 2) support to evaluation of proposals for the call for tender 3) support to the phases of installation and testing of the system developed by the company which awarded the tender (23/05/2016-31/12/2016)
- Scientific lead for University of Rome Tor Vergata in a Framework Service Contract between the University of Rome Tor Vergata and the Publications Office of the EU with title: "Provision of services regarding the PMKI project within the ISA2 framework". The PMKI (Public Multilingual Knowledge Infrastructure) project is funded by the EU ISA² program: "Interoperability solutions for public administrations, businesses and citizens". The PMKI action aims to create a knowledge management infrastructure for language resources, providing services for technical formats harmonization, multilingual localization and editing, semantic mapping between concepts of different resources, as well as improving language resources interoperability (13/09/2017 – 12/09/2019)
- VB3 Project: Development of the VocBench 3 Platform, funded by the ISA² program by application of the Publications Office of the EU, through subcontracting of the Publication Office's service provider Infeurope (2016-09 – 2018-7-31)
- FAO&Tor Vergata Framework Agreement: scientific coordinator in two framework agreements between the University of Rome Tor Vergata and the Food and Agriculture Organization of the United Nations (FAO) for the realization of the collaborative editing platform VocBench. (1st Letter of Agreement in 2012, duration: 9 months, 2nd Letter of Agreement, 2014, duration 9 months, PO NUMBER 307143)
- Collaboration with the University of Rome “Tor Vergata” for a “Survey on policies and technologies for Earth Science metadata, semantics and ontology: finding aid toolkit development and adaptation” (in the context of work packages WP15 and WP21 of the SCIDIP-ES project, see list of projects below). (01/07/2012-28/02/2013)
- Activity of “Supporto e coordinamento allo studio ed alla progettazione di metodi e tecniche per la ricerca semantica di informazioni nei materiali Web e il loro utilizzo nei dialoghi.” for CERTIA (Centro per la Ricerca lo Sviluppo la Formazione nelle Tecnologie e Applicazioni Informatiche) (20th December 2012 – 15th April 2013)
- ESA: consultancy for the European Space Agency (ESA) – on behalf of its provider "INTECS Informatica e Tecnologie del Software s.p.a." – for the realization of a semantic search engine integrating data and images produced by means of geo-acquisition satellite systems with metadata retrieved from the Linked Open Data (3rd February 2011 – 31st December 2011)
- Consultancy for the European Space Agency (ESA), through its provider “University of Rome Tor Vergata” for “Integrazione del tool di annotazione semantica Semantic Turkey nello scenario di Environmental Monitoring del progetto D4Science” (19th June 2008 – 30th November 2008)
- Collaboration with the “University of Rome Tor Vergata” for “Making a Firefox-based Semantic Annotation tool compliant with the UIMA annotation format” (01/03/2008 – 31/03/2008)
- Consultancy for the European Space Agency (ESA), through its provider “University of Rome Tor Vergata” for “Supporto alle attività di importazione automatica di ontologie ESA nel tool Semantic Turkey” (15th September 2007 – 30th October 2007)
- Consultancy on “analisi delle metodologie e sistemi esistenti per il supporto alla creazione di ontologie” for CERTIA (Centro per la Ricerca lo Sviluppo la Formazione nelle Tecnologie e Applicazioni Informatiche). (20 October 2006 – 20th December 2006)

PARTICIPATION TO AND COORDINATION OF RESEARCH PROJECTS

International Research Projects

- Realization of a knowledge management system for the analysis of hydrogeologic scenery in Italy, on behalf of University of Tor Vergata, client: Agenzia per la protezione dell'Ambiente e del Territorio (APAT). (26/09/2006 – 04/02/2007)
 - Progetto di un motore di ricerca avanzato con funzioni di personalizzazione della ricerca e di accesso alle risorse disponibili basate sulle esigenze del singolo utente. Realizzazione del knowledge management component del sistema. Per conto dell'Università di Tor Vergata, committente: agenzia FILAS (contratto C5748-2005). (14/02/2006 – 13/07/2006)
 - R&D collaboration with the "University of Rome Tor Vergata" for "Valutazione, Testing Funzionale e Validazione delle librerie di Ontology-driven Information Extraction" (05/12/2005 – 04/05/2006)
 - R&D collaboration with the "University of Rome Tor Vergata" for "analisi e implementazione di un tool per la mediazione ontologica" (25/06/2004 – 24/09/2004)
 - Collaboration with the "University of Rome Tor Vergata" for "attività di analisi e sviluppo di metodologie per l'integrazione di ontologie nel dominio universitario" (05/02/2004 – 04/11/2004)
 - R&D collaboration with the "University of Rome Tor Vergata" for "attività di analisi e sviluppo di un componente di un sistema di Information Extraction basato su metodologie di Wrapper Induction" (12/05/2003 – 31/08/2003)
 - Collaboration with the "University of Rome Tor Vergata" for "attività di studio del tool Protégé e sviluppo software di customizzazione dello stesso tool a supporto del prototipo CROSSMARC" (10/10/2002 – 10/02/2003)
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- KATY: "Knowledge At the Tip of Your fingers: Clinical Knowledge for Humanity" H2020-SC1-FA-DTS-2020-1, Grant Agreement 101017453. Role: WP Leader, total financing: 8,5M€ <https://katy-project.eu/> (Jan 2021 - Dec 2024)
 - SemaGrow: "Data Intensive Techniques to Boost the Real-Time Performance of Global Agricultural Data Infrastructures" Grant Agreement 318497 <http://semagrow.eu> (1st Nov 2012 – 1st Nov 2015 – ext. June 2016). *Coordinator for the University of Rome Tor Vergata.* 3.146.747 €
 - AgInfra: "Promoting data sharing and development of trust in agricultural sciences". Grant Agreement 283770 <http://aginfra.eu> (Oct 2011 – Oct 2014)
 - SCIDIP-ES: "SCience Data Infrastructure for Preservation - Earth Science. Project ID: 283401 EU Call INFRA-2011-1.2.2 Data infrastructures for e-Science (1-Sept-2011 - 31 Aug 2014)
 - INSEARCH: "Supporting SMEs innovation processes through advanced IT search systems". Grant Agreement: 262491. EU Project Theme: "Research for SMEs" (Dicembre 2010 – Dicembre 2012)
 - Diligent (IST-004260): realizzazione di un sistema per l'annotazione semantica di contenuti dal portale di conoscenza Impect (per conto di Università di Tor Vergata, sub contractor del partner di progetto ESA: European Space Agency) (2007)
 - Neon "NeOn: Lifecycle Support for Networked Ontologies". Integrated Project (IST-2005-027595): contributi alla realizzazione di sistemi di alignment tra thesauri. <http://www.neon-project.org/> (March 1, 2006 – February 28th, 2010)

National Research Projects

- CUSPIS-Galileo (GJU/05/2412/CTR/CUSPIS): applicazioni satellitari a supporto della salvaguardia e della fruizione del patrimonio culturale (24/06/2005 – 30/03/2007)
- PrestoSpace (FP6-507336): An integrated solution for Audio-visual preservation and access <http://www.prestospace.org/> (February 1st 2004 – June 1st 2007)
- MOSES MODular and Scalable Environment for the Semantic web (IST-2001-37244) (September 1st 2002 – February 2nd 2005)
- CROSSMARC Cross-lingual multi-agent retail comparison (IST-2000-25366) (2001 – 2003)

INDUSTRY PROJECTS

Projects

- HTML5 Semantic Layer for Legal Documents. A feasibility study funded by the Publications Office of the EU (2021-12 - present)
- PMKI: Development of a Semantic Elicitation Platform, funded by the DIGITAL programme of the EU by application of the Publications Office of the EU, through subcontracting of the Publication Office's service provider Infeurope (2021-09 - present)
- VB3 and ShowVoc: Development of the VocBench 3 and ShowVoc Platforms, funded by the DIGITAL programme of the EU by application of the Publications Office of the EU, through subcontracting of the Publication Office's service provider Infeurope (2021-09 - present)
- BE-LISA. Development of a series of improvements on 5 software characterizing the Life Watch ecosystem, in the context of the BE-LISA project
- USDA Consultancy. Consultancy for the US Department of Agriculture on the use of VocBench for maintenance of their vocabularies and ontologies (2021 – present)
- Development of a open knowledge base based on semantic standards for the foundation "Fondazione con il Sud" (2020-09 – 2021-12)
- Normattiva Open Document. A contract with Istituto Poligrafico e Zecca dello Stato (IPZS) for porting legal documents of italian acts into the Akoma Ntoso standard, to be published on the government portal <https://www.normattiva.it/> (2019 – present)
- VB3: Development of the VocBench 3 Platform, funded by the ISA2 program by application of the Publications Office of the EU, through subcontracting of the Publication Office's service provider Infeurope (2019-09 - 2021-07)
- PMKI: Development of the PMKI Platform, funded by the ISA2 program by application of the Publications Office of the EU, through subcontracting of the Publication Office's service provider Infeurope (2019-09 - 2021-07)

AWARDS AND EXPERIENCES

Paper Awards

- Best Paper Award at the Metadata and Semantics Research (MTSR) Conference 2019

International Awards	▪ Winner of an IBM award for IBM UIMA Innovation Awards 2007, with a project on Semantic Annotation. See http://semanticturkey.uniroma2.it/extensions/uimast/ for the published tool which has followed this grant
Invited/Keynote Speeches	▪ Invited talk at the Pacific Rim International Workshop on Applied Knowledge Graphs (PRIWAKG-2023), co-located with the 20th Pacific Rim International Conference on Artificial Intelligence, PRICAI 2023.. Title of the speech: "VocBench 3 & ShowVoc: Towards an Open-source Ecosystem for Knowledge Management and Publication". 16th of November, 2023 ▪ Invited talk at SemTech4STLD, co-located with the Extended Semantic Web Conference 2023, ESWC2023. Title of the speech: "A Coordinated Ecosystem of Systems and Models for Maintenance and Publication of Data, Metadata and Legal Documents in the European Commission" 28th of May 2023 ▪ Keynote speech at NKOS 2021. Title of the speech: "An ecosystem of KOS tools". 22nd of September 2021 (online, during COVID-19 pandemic) ▪ Invited talk at SemTech 2020. Title of the speech: "An Environment for Seamless Modeling of Ontologies, Thesauri and Lexicons". 22nd of February 2021 (online, during COVID-19 pandemic) ▪ Keynote speaker at the 4th Workshop on the Multilingual Semantic Web (MSW4). Title of the speech: "A Language-Aware Web will give us a bigger and better Semantic Web". 1st of June, 2015 ▪ Keynote speaker at the 10th International Workshop on Ontology Content (OnToContent 2014). Title of the speech: "Towards Computer-aided Ontology Development: linking data...and users...and machines". 27th of October, 2014 ▪ Invited Speaker at the "LDBC2014 Fourth TUC Meeting". Title of the speech: "VocBench 2.0: A Collaborative Environment for SKOS/SKOS-XL Management: scalability and (inter)operability challenges". Amsterdam, 3rd of April, 2014. ▪ Keynote Speaker at the "2010 International Symposium on Agricultural Ontology Service (AOS)". Title of the speech: "Thesauri building with SKOS" (30/31 Ottobre, 2010, Beijing, China) ▪ Keynote Speaker at the "Workshop of Knowledge Organization and Knowledge Link 2010". Title of the speech: "Modeling Ontologies and Thesauri in the Web of Data" (22 Ottobre, 2010, Beijing, China)
Seminars/Lectures/Tutoring	▪ Lecturer at the LWE (LifeWatch ERIC) Intensive School, September 25-29 2023, Lecce, Italy. ▪ Seminar at the Chengdu Documentation and Information Center of the Chinese Academy of Science on "A Coordinated Ecosystem of Services and Models for Maintenance and Publication of Data, Metadata and Documents in Large Organizations", August 24 2023, Chengdu, China. ▪ Invited Lecturer/Tutor at the 5th Summer Datathon on Linguistic Linked Open Data (SD-LLOD'23), June 11 - 16 2023, Castel Luznica, Croatia ▪ Invited Seminar at the University of Udine on "sviluppo di risorse semantiche per il web dei dati: ontologie, tesauri, lessici" (9th January 2023) ▪ Invited Seminar at the University of Salerno on "Dal documento al dato e dal dato al documento: Accessibilità e semantica nella gestione di dati e documenti istituzionali" (21st October 2022) ▪ Invited Lecturer/Tutor at the 4th Summer Datathon on Linguistic Linked Open Data (SD-LLOD'22), May 29 - Jun 3 2022, Madrid

	- Invited Lecturer/Tutor at the EUROLAN 2021 Introduction to Linked Data for Linguistics Training School (8-12 February, 2021) - Seminar at the Publications Office of the European Union on Thesauri Management with VocBench (19-29 October, 2020) - Tutorial on "VocBench 3: Collaborative Development of Thesauri, Ontologies, Lexicons and RDF datasets for the Semantic Web (System Demonstration)" at the MTSR 2019 conference (30 October, 2019) - Seminar at the Chengdu Documentation and Information Center of the Chinese Academy of Science on "VocBench 3: Pushing Collaborative Development of Thesauri, Ontologies and Lexicons Further Beyond", November 06 2018, Chengdu, China - Series of Seminars at the Georg Eckert Institute for International Textbook Research, Germany on "Semantic Web and Linked Open Data: motivations, solutions, models and technologies. Applications for Document Retrieval". (11-14 October 2016) - Seminar at the University of Potsdam with the following title: "Knowledge Acquisition for Linked Data: Linked Data for Knowledge Acquisition" (9 Nov 2012), followed by a tutorial about the use of Linked Data and Semantic Web models for Knowledge Representation in the domain of Cultural Heritage, held for the Interdisciplinary „Interflex" Course, with the Faculty of Conservation and Restoration of the University of Applied Sciences Potsdam: semantic documentation of the conservation (Semantische Dokumentation in der Restaurierung) (Master - German/English). - Seminar at the Laboratory for Applied Ontology (LOA) of Trento, Italy. Title of the seminar: <i>"A Web of Data for humans and machines? The importance of "Awareness" in Language, Resources and Systems"</i> (1st July, 2008)
Panels and Round Tables	- Invited Panelists on "Convergence of Knowledge Graphs and Large Language Models " held on 17th November 2023 at the 20th Pacific Rim International Conference on Artificial Intelligence, PRICAI 2023 - Invited Panelists on "Semantics to enable sharing and interoperability of data in agriculture. What do we need?" held on 24th November 2016 at the 10th edition of the Metadata and Semantics Research Conference (MTSR'16) Chaired by Sophie Aubin and Caterina Caracciolo, Panellist: Anne Toulet, <u>Armando Stellato</u>, Catherine Roussey, Christian Pichot, Elizabeth Arnaud, Ferdinando Villa and Johannes Keizer.
Webinars	- LOTICO Community Web Seminar on "Introducing VocBench 3, a Collaborative Editor for Semantic Resources" 22nd of April 2021 - Series of 4 ISKO (International Standards for Knowledge Organization) webinars on VocBench 3 (first one on 6th of April 2021) - VOCBENCH 2.0: A Collaborative Environment for Management of SKOS/SKOS-XL Concept Schemes. 4th March, 2015
Events, schools, etc..	- Second European Summer School on Ontological Engineering and the Semantic Web (SSSW-2004). 18th-24th July 2004 - Cercedilla (Spain). - Summer Convention on Information Extraction (SCIE-2002). Frascati, Italy, 2012.
Previous Applications	Classificato secondo idoneo al concorso per una posizione di ricercatore terzo livello presso il Consiglio Nazionale delle Ricerche (codice concorso 364.27, bando del 24/10/2007, risoluzione del 18/05/2010). <i>Area Scientifica</i>: Scienze Informatiche. Codice riferimento TN78/1. <i>Tematica di lavoro</i>: Tecniche, sistemi, architetture, interfacce, metodi di analisi ontologica e risorse linguistiche per la modellazione, la gestione, l'accesso intelligente e l'integrazione semantica di contenuti presenti sul web, nelle biblioteche digitali, negli archivi del patrimonio informativo di organizzazioni complesse

Further Certifications

Organization/Participation of
Conferences as Chair/
Program Committee
Reviewing activity for Journals
etc..

- “Basic Security in the Field – Staff Safety, Health and Welfare” rilasciato dalle Nazioni Unite il 7 Giugno 2010
- Program chair for the following conferences:
 - Metadata and Semantics Research Conference (MTSR); in 2016 (10th edition) <http://www.mtsr-conf.org/2016/archived/index.php/organization.html>
- Special Track Chair for the following conferences:
 - Metadata and Semantics Research Conference (MTSR); from 2017 to current date (updated 2023)
Special Track on Metadata & Semantics for Open Repositories, Research Information Systems & Data Infrastructures
<http://mtsr-conf.org/index.php/tracks/open-repositories>
- Area chair for the following conferences:
 - LREC-Coling 2024. Area chair on track: “LC12 – Knowledge Discovery/Representation”
 - Extended Semantic Web Conference (ESWC), Project Networking chair in 2023 <https://2023.eswc-conferences.org/organising-committee/>
 - Italian Conference on Computational Linguistics (CLiC-it), area Semantics and Knowledge Acquisition; in 2015
- Chair/Organizer for the following workshops
 - LIRAI'23 Legal Information Retrieval meets Artificial Intelligence
 - VocBench 3 day; in 2016
 - Lifecycling Knowledge Graphs: Managing Information from Extraction to Curation (@ ENDORSE 2021)
- Program Committee member in the following conferences and workshops:
 - ACL - 2014 - Annual Meeting of the Association for Computational Linguistics
 - AIUCD – 2021 - DH per la società: e-guaglianza, partecipazione, diritti e valori nell'era digitale
 - AIW – 2012 – Artificial Intelligence Workshops
 - AOS - 2010-2011-2012-2013 (2012 is part of AIW2012) - International Workshop on Agricultural Ontology Services
 - CaRR - 2011-2012-2014-2015 - Context-awareness in Retrieval and Recommendation
 - CLiC-it – 2015 – 2021 Italian Conference on Computational Linguistics, track "Semantics, Knowledge Representation"
 - Coling – 2008 – International Conference on Computational Linguistics
 - DATA – 2023-24-25
 - DATASET – 2017 - International Symposium on Designing, Validating, and Using Datasets
 - DesWeb - 2010-2011 – International Workshop on *Data Engineering meets the Semantic Web*
 - DHC – 2016 – Digital Humanities and Digital Curation
 - EKAW – 2018 2020 2022 – International Conference on Knowledge Engineering and Knowledge Management
 - ENASE – 2015-2016-2017 - Evaluation of Novel Software Approaches to Software Engineering

- ESWC - 2014-2015-2016-2017-2018-2019-2020-2021-2022-2023--2024 - Extended Semantic Web Conference
- GenSW – 2017 – Generalizing knowledge: from Machine Learning and Knowledge Representation to the Semantic Web
- IMMM – 2016-2017 – International Conference on Advances in Information Mining and Management
- In-Olive workshop – 2017 – data integration in agriculture, food and environment using ontologies (held in conjunction with EFITA 2017)
- ISWC – 2017-2018-2019-2020-2021-2022-2023-2024 – International Semantic Web Conference
- KONVENS – 2012 - Conference on Natural Language Processing
- LDK – 2017-2019 - 2021– 2023 Conference on Language, Data and Knowledge
- LDL - 2015 – 2016 – 2018 - 2020 – 2022 – 2024 Linked Data in Linguistics
- LODItalia - 2014 - Linked Open Data Day Italia
- LOTKS – 2017 – Workshop on Language, Ontology, Terminology and Knowledge Structures
- LREC – 2014 – 2016 – 2018 – 2020 – 2022 Language Resources and Evaluation Conference
- LREC-Coling – 2023
- MEDES - 2015 – 2016 - International Conference on Management of computational and collective Intelligence in Digital EcoSystem - Special Track on Agriculture Early Warning Computing and Collective Intelligence
- Metadata & Semantics for Agriculture, Food & Environment - 2013
- MSW - 2015 - Multilingual Semantic Web
- MTSR - 2012-2013-2014-2016-2017-2018-2019-2020 (inside special session AgroSEM and/or on the main track) - International Conference on Metadata and Semantic Research
- NKOS 2016-2017-2018-2022-2023-2024 - European Networked Knowledge Organization Systems Workshop
- OntoContent 2007-2008 - 2012-2013-2014-2015-2016 - Ontology content and evaluation in Enterprise
- OntoLex 2007-2008-2010
- OntoLex Model 2017
- OR – 2018-2019-2020-2021 – Open Repositories Conference
- PRICAI – 2023 – Pacific-Rim International Conference on Artificial Intelligence
- PRIWAKG – 2023 – Pacific-Rim International Workshop on Applied Knowledge Graphs
- SALES - 2009 - International Workshop on Semantic-Web Architectures for Large Enterprise Systems
- SASWeb - 2011-2012 - International Workshop on Semantic Adaptive Social Web
- SEM - 2015 - Joint Conference On Lexical And Computational Semantics
- SML2OD - 2013 - 1st International Workshop on "Semantic Machine Learning and Linked Open Data for Agricultural and Environmental Informatics
- SML – 2016 – Workshop on Semantic Machine Learning (SML 2016)
- SPIM - 2010-2011-2012 - International Workshop on Semantic Personalized Information Management
- STAKE - 2010-2011-2012 - International Conference on Semantic Technology and Knowledge Engineering
- SWAE – 2008 – Semantic Web Architectures for Enterprises
- SWAP - 2008-2010 - Semantic Web Application and Perspectives
- SWEA – 2008 – Engineered Applications of Semantic Web
- TKE – 2016 – International Congress on Terminology and Knowledge Engineering
- UNM - 2010 - International Workshop on Uncertainty in Network Mining
- WissOrg – 2015 – 2021 Wissensorganisation '<yy>: Lexical Resources for Knowledge Organization"
- WWW (now TheWebConf) – 2018-2019-2020-2025 World Wide Web Conference

Participation to
international committees/groups
for the definition of standards

- Area Editor of the Journal of Web Semantics
(<https://www.sciencedirect.com/journal/journal-of-web-semantics/>)
- Member of the Editorial Board of the journal of Information Processing in Agriculture
(<https://www.sciencedirect.com/journal/information-processing-in-agriculture>)
- Member of the Editorial Board of the International Journal on Semantic Web and Information Systems
(<https://www.igi-global.com/journal/international-journal-semantic-web-information/>)
- Member of the Editorial Board (specifically, Associated Editor) of the International Journal of Metadata, Semantics and Ontologies
(<http://www.inderscience.com/jhome.php?jcode=ijmso>) from 20/09/2016 until 30/09/2020
- Founding Editor Board Member of the "Computer Science Applications" journal
(<http://www.iospublishing.org/computer-science-applications/>)
- Reviewer for the following journals:
 - Applied Ontology
 - Computational Intelligence
 - Computer Law & Security Review: The International Journal of Technology
 - Data and Knowledge Engineering
 - Journal on Data Semantics (JODS)
 - International Journal of Metadata, Semantics and Ontologies
 - Journal of Information Science
 - Information Systems
 - Law and Practice
 - Scientific Data
 - Open Journal of Semantic Web (OJSW)
 - International Journal of Semantic Web and Information Systems
 - Journal of Systems and Software
 - WIREs Data Mining and Knowledge Discovery
- He has been reviewer for several other conferences such as the International Joint Conference on Artificial Intelligence (IJCAI) and congresses and conferences of the Associazione Italiana per L'intelligenza Artificiale (AIIA) and many others.
- **Research Data Alliance – Agriculture Data Interest Group:** From November 2016 to December 2018, I have been *chairing* the Agriculture Data Interest Group, an interest group of the Research Data Alliance (<https://www.rd-alliance.org/>) working as an umbrella for several working groups working on semantic standards for the Agriculture community. The Research Data Alliance (RDA) is an international organization - comprising individuals, organizations and policy makers representing multiple industries and disciplines - focused on the development of infrastructure and community activities aimed to reduce barriers to data sharing and exchange, and promote the acceleration of data driven innovation worldwide.
- **Ontolex:** I've been member of Community Group of the World Wide Web Consortium (W3C) Ontolex (<https://www.w3.org/community/ontolex/>) for the whole duration of the project (2012-2015). Objective of the group is the realization of a suite of vocabularies for describing interfaces between ontologies and lexicons. The final specification is available at: <https://www.w3.org/2016/05/ontolex/>. I have contributed to the definition of the core Lemon/Ontolex model, and specifically contributor and responsible for the metadata module LIME (see below).
- **Lime:** a Linguistic Metadata Vocabulary. Contributed to the Community Group of the World Wide Web Consortium (W3C) Ontolex (<https://www.w3.org/community/ontolex/>) as the metadata module for the Ontolex model. (specification at: <https://www.w3.org/2016/05/ontolex/#metadata-lime>)

- **VocBench:** a web-based, multilingual, collaborative development platform for managing OWL ontologies, SKOS(/XL) thesauri, Ontolex-lemon lexicons and generic RDF datasets
<http://vocbench.uniroma2.it/>
- **ShowVoc:** a web-based, multilingual, platform for publishing and consulting OWL ontologies, SKOS(/XL) thesauri, Ontolex-lemon lexicons and generic RDF datasets
<http://showvoc.uniroma2.it/>
- **Semantic Turkey:** a Semantic Web Knowledge Management and Acquisition tool
<http://semanticturkey.uniroma2.it/>
- **CODA:** an extension of the UIMA (Unstructured Information Management Architecture) architecture and framework for projecting information extracted from unstructured content sources onto RDF knowledge repositories.
<http://art.uniroma2.it/coda/>
- **Sheet2RDF:** a platform for acquisition and transformation of datasheets into RDF. Available also as a plugin for Semantic Turkey and RDF.
<http://art.uniroma2.it/sheet2rdf/>
- **OntoLing:** a tool for Linguistic Enrichment of ontologies (available as extension for different ontology development platforms)
<http://art.uniroma2.it/ontoling>
- **OWL ART API:** API for accessing and managing RDF. These API provide various implementations for several existing triple stores (Sesame2, Allegrograph, Jena, Protege) and allow RDF management for all existing standard vocabularies of the RDF family (RDF, RDFS, OWL, SKOS, SKOS-XL)
<http://art.uniroma2.it/owlart/>
- **JMWNL:** Java (Multi)WordNet Library: a set of extensions to the JMWNL library allowing access to WordNets for different languages (currently supports EuroWordNet)
<http://art.uniroma2.it/jmwnl/>
- **RangeAnnotator:** The RangeAnnotator extension transforms Semantic Turkey into a true Semantic Annotation System, by replacing the standard annotation mechanism with one producing RangeAnnotations (through use of W3C standard: x-pointers)
<http://semanticturkey.uniroma2.it/extensions/rangeannotator/>
- The **UIMAST (UIMA-ST Integration)** extension is an ongoing attempt to integrate the Apache UIMA Framework into Semantic Turkey. On the one hand the extension turns Semantic Turkey into a full-fledged UIMA development environment and on the other hand it uses UIMA technologies to automatically generate metadata about web pages.
<http://semanticturkey.uniroma2.it/extensions/uimast/>
- **OBi-WAN:** Ontology-Based Wrapper Induction. A tool based on prolog technology implementing Soderland's wrapper induction techniques where Semantic lookup foreseen by Soderland's algorithms is boosted by available ontology content. (recently dismissed)
<http://art.uniroma2.it/obiwan/>

The VocBench project in particular represents an important and interesting achievement, in which different solutions adopted in other projects converge. VocBench is indeed supported by the RDF Management platform Semantic Turkey and includes systems for the acquisition and management of unstructured information such as CODA and Sheet2RDF. VocBench has met large acknowledgment on a world-wide scale, reaching the status of recommended platform by the EU for the P.A.s of all of its member states for the collaborative management of public datasets and being adopted by many organizations, agencies and companies needing a robust and advanced platform for managing ontologies, thesauri and lexicons. Some of these include:

- Food and Agriculture Organization (FAO) > AGROVOC, Biotechnology, Land and Water, FAO Topics

PERSONAL BACKGROUND

NATIVE LANGUAGE

BOARD

SELF-EVALUATION

*European Level***English****Chinese****Spanish**

- EU Documentation Office > EUROVOC
- US Department of Agriculture (USDA) > NALT (National Agricultural Library Thesaurus) and other thesauri/ontologies
- United Nations Environment Programme (UNEP) > InforMEA, in the context of MEA, the Information and Knowledge Management Initiative
- Italian Senate > TESEO
- European Environment Agency (EEA) > GEMET
- Harvard University > Unified Astronomy Thesaurus (UAT)
- EC Parliament Library
- Institut National de la Recherche Agronomique (INRA) > in the context of AnaEE France project (ecosystems and biodiversity thesaurus) and Délégation à l'information scientifique et technique (DIST)
- CABI
- United Nations Convention to Combat Desertification (UNCCD)
- Scottish Government > Gov metadata
- Columbia University > IEDA Thesaurus

Italiano

Understanding				Spoken				Written	
Ascolto		Lettura		Interazione orale		Produzione orale			
C1	Advanced	C2	Advanced	C1	Advanced	C1	Advanced	C1	Advanced
A1	Base	A1	Base	A1	Base	A1	Base	A1	Base (mostly pinyin)
A1	Base	A1	Base	A1	Base	A1	Base	A1	Base

CAPACITÀ E COMPETENZE
TECNICHE

- Conoscenza e utilizzo dei seguenti linguaggi di programmazione:
 - Java, ampiamente esplicata sia a livello di sviluppo, che a livello didattico, nei diversi corsi dei quali sono stato docente.
 - C/C++, esplicata per lo più a livello didattico (è il linguaggio adottato nei corsi di Fondamenti di Informatica all'Università di Tor Vergata e dei quali sono stato esercitatore e sono tuttora docente), anche se non sono estraneo ad un uso concreto del linguaggio.
 - Prolog, da me ampiamente adottato nell'ambito dello sviluppo di sistemi intelligenti (è inoltre il linguaggio insegnato nei corsi di Sistemi basati su conoscenza e Intelligenza Artificiale all'Università di Tor Vergata, corsi nei quali ho fornito ausilio didattico)
 - Pascal
 - JavaScript
 - Python (base)
- Ottima conoscenza dei principi di programmazione:
 - Logica
 - Tradizionale (Strutturata / Ad Oggetti)
- Buona conoscenza del linguaggio per la descrizione di modelli software UML
- Buona conoscenza degli standard di management e pubblicazione di progetti in ambienti aperti:
 - Sistemi per la gestione, pubblicazione e linkage di progetti, basati sul paradigma "convention over configuration": principalmente *Maven*
 - Versioning del codice: CVS, SVN etc...
 - Ambienti per la pubblicazione di progetti open-source: google-code, source-forge
- Ottima conoscenza dei linguaggi per la rappresentazione della conoscenza: OWL, RDF, RDFS per il Web Semantico (sia a livello di utilizzo che di sviluppo). SKOS per la modellazione di sistemi per la gestione di conoscenza. RDFa e Microformats per l'embedding di strutture semantiche all'interno di pagine Web. SPARQL per l'interrogazione di dati RDF. XML, DTD e XML Schema. Famiglia di trasformatori basati su stylesheet XSL (XSLT, CSS)
- Ottima conoscenza di sistemi per la rappresentazione e editing di ontologie, come Protege e Top Braid Composer, sia come utilizzatore, che come sviluppatore (sono autore di diversi plugin per Protege condivisi all'interno della comunità di ricerca del web semantico, tra cui OntoLing, un plugin di Protege per l'arricchimento linguistico di ontologie). Sono inoltre principale autore e sviluppatore di un sistema – Semantic Turkey – per l'ontology editing, semantic bookmarking e semantica annotation, per il quale sono state prodotte diverse pubblicazioni scientifiche a riguardo nelle più note conferenze in area di Web Semantico (vedi il mio elenco pubblicazioni, in particolare ESWC07 e SWAP2006, e in prossima pubblicazione: Semantic Web Journal).
- Ottima conoscenza di paradigmi e tecnologie Web 2.0, AJAX, social web frameworks etc..
- Buona conoscenza delle tecnologie di sviluppo di applicazioni Web in ambiente Java EE:
 - Java Server Pages (JSP)
 - Java Server Faces (JSF)
 - Facelets
- Buona conoscenza di Javascript, XUL (XML user-Interface Language) e XUL per estensioni Firefox
- Ottima conoscenza di sistemi, librerie e toolkit per il Machine Learning: Weka, YALE, YASMET
- Ottima familiarità con sistemi operativi Windows serie Win 9x e Serie NT, sia client che server, buona conoscenza di piattaforme Linux
- Applicazioni di Office Automation in ambiente Windows

- Buona conoscenza di protocollo MIDI (e sue estensioni) e specifici software (SONAR, Cakewalk, Wavelab etc...) utilizzati in ambito musicale (sono musicista a livello amatoriale e ho svolto ricerca nell'ambito della categorizzazione automatica di brani musicali, vedi pubblicazioni in merito)

Il sottoscritto dichiara, ai sensi del D.P.R. n.445/2000, e consapevole che le dichiarazioni mendaci sono punite ai sensi del codice penale e delle leggi speciali in materia:

che le informazioni fornite nel presente Curriculum Vitae sono vere e complete

Roma

Faithfully,

01/10/2024

Armando Stellato