

Stefano Faralli
CURRICULUM VITÆ

PART 1 - GENERAL INFORMATION

Full name Stefano Faralli
orcid <http://orcid.org/0000-0003-3684-8815>
E-mail stefano.faralli@unitelma.it
Home page <https://www.unitelmasapienza.it/it/contenuti/personale/stefano-faralli>
Spoken languages Italian (native language), English and French.

PART 2 - EDUCATION

Oct. 2014 PhD in Computer Science, Sapienza University of Rome.
May. 2005 BS + MS in Computer Science, Sapienza University of Rome.

PART 3 - APPOINTMENTS

CURRENT

- 01/11/2017 -
Researcher at University of Rome Unitlema Sapienza, Italy
Duties included research and teaching.

RESEARCH FELLOWSHIPS AND PhD

- 01/06/2015 - 30/10/2017
Post-doctoral position under the supervision of Professor Simone Paolo Ponzetto
University of Mannheim, Germany, Institut für Informatik und Wirtschaftsinformatik
Duties included research, undergraduate and graduate teaching, student mentoring.
- 01/01/2014 - 31/12/2014
Research fellow, under the supervision of Professors: Roberto Navigli and Paola Velardi
Sapienza University of Rome, Dip. Informatica
- 01/11/2011 - 20/02/2015
PhD student under the supervision of Professors: Roberto Navigli and Paola Velardi
Sapienza University of Rome, Dip. Informatica
- 01/01/2011 -31/12/2013
Research fellow under the supervision of Professors: Roberto Navigli and Paola Velardi
Sapienza University of Rome, Dip. Informatica
- 01/04/2008 -31/03/2009
Research fellow under the supervision of Professor: Augusto Celentano
Università "Ca' Foscari" Venezia, Dip. Informatica

RESEARCH COLLABORATION ACTIVITIES AND EXPERIENCE

- 2007 - 2010
Company: Communication System s.r.l. in Roma
Collaboration: software design and development, project analyst, data analyst.
- 2009
Chelsea Art Museum, New York, NY USA and Virginia Commonwealth University, Richmond, VA USA
Collaboration: software design and development for real-time virtual puppetry performances [Conferences 16, 17, 18]
- 2007 - 2008
Company: Università IUAV di Venezia
Collaboration: Natural Interaction system design and development fellow in the project: Esplorazione interattiva di modelli digitali tridimensionali: il caso del teatro la Fenice di Venezia. [Book Chapters 1
- 2006 - 2007
Company: Dipartimento di Informatica dell'Università degli studi di Roma La Sapienza
Collaboration: Cultural Heritage distributed interactive systems [Conferences 20, 21, 22]
- 2005 - 2006
Company: Dipartimento di Informatica dell'Università degli studi di Roma La Sapienza and Fondazione Archeologica Etruria Meridionale (FAEM) and Galatour s.r.l Cerveteri (RM) and ECOMEDIA s.c.r.l Roma
Collaboration: Design and development of Multilingual Simultaneous Transmission (MUST). MUST is a location-aware wireless system able to stream multiple audio track. [Conferences 25, 26]
- 2004 - 2006
Company: Dipartimento di Informatica dell'Università degli studi di Roma La Sapienza
Collaboration: Design and development of a framework for multimodal distributed interaction systems. [Journals 5],[Conferences 18, 19, 24, 27]

PART 4 - RESEARCH INTERESTS

My research interests are across three areas: Data and Web Science (DWS), Natural Language Processing (NLP) and Human Computer Interaction (HCI). I'm interested on interdisciplinary studies involving NLP approaches in Data Sciences tasks. Thus, including investigations on Ontology Learning, Word Sense Disambiguation, Semantic Social Network user profiling and classification, Recommender Systems, Distributional Semantics, Graph Mining. I'm also fascinated by the challenging research of Web-scale natural language processing approaches. I cultivate long-term collaborations in the field of Art and Science, and the applications in Drama Therapy. I have a long experience on national and international projects. Including projects supported by Italian institutions (i.e., PRIN-MIUR), German Institutions (i.e., Deutsche Forschungsgemeinschaft DFG), USA institutions (i.e., VCU Presidential Research Quest) and European institutions (i.e., European Research Council ERC).

PART 4.1 - PROJECTS

EUROPEAN INSTITUTIONS:

- Research fellow - MultiJEDI (FP7-IDEAS-ERC under grant agreement no. 259234) is a 5-year ERC Starting Grant (2011-2016) headed by Prof. Roberto Navigli at the Linguistic Computing Laboratory of the Sapienza University of Rome. The project has two main objectives: creating large-scale lexical resources for dozens of languages, and enabling multilingual text understanding.

GERMAN INSTITUTIONS:

- Postdoctoral researcher - Joining Ontologies and semantics INduced from Text (JOIN-T) DFG Projectnumber: 259256643.

ITALIAN INSTITUTIONS:

- Research fellow in the project: Esplorazione interattiva di modelli digitali tridimensionali: il caso del teatro la Fenice di Venezia. Progetto, costruzione e test di una stazione monoutente stereoscopica multimodale e multimediale, nell'ambito della ricerca Prin VIA Architettura Virtuale Interattiva, coordinata dal prof. Riccardo Migliari, 2006-08 (2005087291 - 002).
- Research fellow - CHAT, MIUR 297/99.

OTHER INTERNATIONAL INSTITUTIONS:

- Project Advisor for VoicingElder, award-VCU Presidential Research Quest Found. http://www.research.vcu.edu/vpr/research_fund/.

PART 5 - SCIENTIFIC ACTIVITIES

PART 5.1 - CHAIR

2015 - Co-organizer of SemEval 2015: task 17 <http://alt.qcri.org/semeval2015/task17/>, the most important public challenge of computational semantic analysis systems.

2013 - Publication co-chair for the ACL conference <http://www.aclweb.org/anthology/P/P13/P13-1000.pdf>

PART 5.2 - PROGRAM COMMITTEES

Regularly invited to serve as a PC member of well-established international conferences. A partial list of events I have been involved in includes:

ACL	Annual Meeting of the Association for Computational Linguistics
IJCAI	International Joint Conference on Artificial Intelligence
ISWC	International Semantic Web Conference
AAAI	AAAI International Conference on Artificial Intelligence
COLING	International Conference on Computational Linguistics
EACL	European Chapter of the Association for Computational Linguistics
NAACL	International Conference of the North American Chapter of the Association for Computational Linguistics
EMNLP	International Conference on Empirical Methods in Natural Language Processing
CIKM	ACM International Conference on Information and Knowledge Management
ESWC	Extended Semantic Web Conference
LREC	Language Resources and Evaluation Conference

PART 5.3 - JOURNAL REVIEW

Regularly invited to serve as a reviewer of well-established international journals. A partial list of events I have been involved in includes:

KAIS	Knowledge and Information Systems
JWS	Journal of Web Semantics
CL	Computational Linguistics
JNLE	Journal of Natural Language Engineering
AIJ	Journal of Artificial Intelligence

PART 6 - TEACHING EXPERIENCE

2017- - (ASSISTANT) - Machine Learning - University of Rome Unitelma Sapienza
2015-2017 - (ASSISTANT) - Knowledge Management - Data and Web Science Group - University of Mannheim
2015-2017 - (ASSISTANT) - Text Analytics - Data and Web Science Group - University of Mannheim
2015-2017 - (ASSISTANT) - Web Mining - Data and Web Science Group - University of Mannheim
2006-2009 - (TEACHER) - Informatica di base, c/o SSAB - Sapienza University of Rome
2007-2009 - (TEACHER) - Informatica per la specialistica, c/o SSAB - Sapienza University of Rome
2008-2009 - (TEACHER) - Informatica per il restauro, c/o Universit Ca' Foscari, Venezia
2008-2009 - (ASSISTANT) - Laboratorio di Web-design, c/o Universit IUAV Venezia

PART 7 - PUBLICATIONS

According to Google Scholar, <https://scholar.google.com/citations?user=3SGt4IEAAAAJ> my H-index is 9 and my i10-index is 8. Additionally I co-authored 3 journal papers and 5 conference papers currently under review. In what follows (A*) indicates the A* rank according to VQR 2011-2014 journals and conferences classification and (A) the A ranking according to <http://www.core.edu.au/conference-portal>.

JOURNALS:

1. Stefano Faralli, Giovanni Stilo, Paola Velardi. Automatic acquisition of a taxonomy of microblogs users interests. *Web Semantics: Science, Services and Agents on the World Wide Web*. 45:23–40. 2017.
2. Federico Nanni, Laura Dietz, Stefano Faralli, Goran Glava and Simone Paolo Ponzetto. Capturing interdisciplinarity in academic abstracts. *D-lib magazine (22#)*, Corporation for National Research Initiatives, [Reston, VA], 2016. <http://www.dlib.org/dlib/september16/nanni/09nanni.html>
3. Stefano Faralli, Giovanni Stilo and Paola Velardi. Recommendation of microblog users based on hierarchical interest profiles. *Social Netw. Analys. Mining*, 5:1, 25:1- 25:23. 2015.
4. (A*) Paola Velardi, Stefano Faralli, Roberto Navigli. *OntoLearn Reloaded: A Graph-based Algorithm for Taxonomy Induction*. *Computational Linguistics*, 39(3), MIT Press, 2013, pp. 665-707.
5. Augusto Celentano, Stefano Faralli, Fabio Pittarello: The Situation Lens: A Metaphor for Personal Task Management on Mobile Devices. *Journal of Computing Science and Engineering (JCSE)* 3(4): 238-259 (2009).
6. Paolo Bottoni, Stefano Faralli, Anna Labella, Alessio Malizia, Mario Pierro, Semi Ryu. *CoPuppet: Collaborative Interaction in Virtual Puppetry*. In: *Transdisciplinary Digital Art. Sound, Vision and the New Screen*, Randy Adams, Steve Gibson and Stefan Mller Arisona eds., pp.326-341, CCIS, volume 7, Springer, 2008.
7. Paolo Bottoni, Marina Cammilli, Stefano Faralli: Generating Multimedia Content with Cellular Automata. *IEEE MultiMedia* 11(4): 78-83 (2004).

BOOK CHAPTERS:

1. Stefano Faralli. *Prospettiva dinamica interattiva. La tecnologia dei videogiochi per l'esplorazione dei modelli 3D di architettura*. Riccardo Migliari. pp 218-223, Kappa, 2009. <https://sapienza.pure.elsevier.com/it/publications/introduzione-alla-prospettiva-dinamica-interattiva>

CONFERENCES:

1. (A) Stefano Faralli, Alexander Panchenko, Chris Biemann and Simone Paolo Ponzetto *The ContrastMedium algorithm : taxonomy induction from noisy knowledge graphs with just a few links*. In: *15th Conference of the European Chapter of the Association for Computational Linguistics : proceedings of conference, volume 1: Long Papers; 590-600*. Association for Computational Linguistics, Stroudsburg, PA, 2017.

2. (A) Alexander Panchenko, Eugen Ruppert, Stefano Faralli, Simone Paolo Ponzetto and Chris Biemann Unsupervised does not mean uninterpretable : the case for word sense induction and disambiguation. In: 15th Conference of the European Chapter of the Association for Computational Linguistics : proceedings of conference, volume 1: Long Papers; 86-98. Association for Computational Linguistics, Stroudsburg, PA, 2017.
3. Petar Ristoski, Stefano Faralli, Simone Paolo Ponzetto and Heiko Paulheim Large-scale taxonomy induction using entity and word embeddings. In: WI 2017 : proceedings of the International Conference on Web Intelligence, Leipzig, Germany, August 23-26, 2017; 81-87. ACM, New York, NY, 2017.
4. (A*) Stefano Faralli, Alexander Panchenko, Chris Biemann and Simone Paolo Ponzetto Linked disambiguated distributional semantic networks. In: Lecture notes in computer science The Semantic Web - ISWC 2016 : 15th International Semantic Web Conference, Kobe, Japan, October 17-21, 2016, Proceedings, Part II; pp. 56-64. Springer, Cham, 2016.
5. Julian Seitner, Christian Bizer, Kai Eckert, Stefano Faralli, Robert Meusel, Heiko Paulheim and Simone Paolo Ponzetto A large DataBase of hypernymy relations extracted from the Web. In: Proceedings of the Tenth International Conference on Language Resources and Evaluation (LREC 2016) : May 23-28, 2016, Portoro, Slovenia; pp. 360-367. European Language Resources Association, ELRA-ELDA, Paris, 2016.
6. Camilo Thorne, Stefano Faralli and Heiner Stuckenschmidt Cross-Evaluation of entity linking and disambiguation systems for clinical text annotation. In: SEMANTiCS 2016 : 12th International Conference on Semantic Systems : Leipzig, Germany September 12 - 15, 2016 : proceedings; pp. 169-172. ACM, New York, NY, 2016.
7. (A*) Stefano Faralli, Giovanni Silo, Paola Velardi. Large Scale Homophyly Analysis in Twitter using a Twixonomy. Proceedings of the IJCAI'15 Proceedings of the 24th International Conference on Artificial Intelligence, pp.2334-2340, Buenos Aires, Argentina July 25 - 31, 2015.
8. Stefano Faralli, Giovanni Stilo and Paola Velardi. A Semantic Recommender for Micro-blog Users. 2015 IEEE International Congress on Big Data, New York, NY, 2015, pp. 55-62.
9. Stefano Faralli, Giovanni Silo, Paola Velardi. What Women Like: A Gendered Analysis of Twitter Users' Interests based on a Twixonomy. Proceedings of the Ninth International AAAI Conference on Web and Social Media. 2015.
10. Stefano Faralli. Domain Ontology Learning from Scratch with Applications. Ph.D. Thesis. Sapienza University of Rome. 2015.
11. (A) Stefano Faralli and Roberto Navigli. Growing Multi-Domain Glossaries from a Few Seeds with Probabilistic Topic Models. Proc. of the 2013 Conference on Empirical Methods in Natural Language Processing (EMNLP 2013), Seattle, USA, October 18-21, pp. 170-181. 2013.
12. (A*) Flavio De Benedictis, Stefano Faralli and Roberto Navigli. GlossBoot: Bootstrapping Multilingual Domain Glossaries from the Web. Proc. of the 51st Annual Meeting of the Association for Computational Linguistics (ACL 2013), Sofia, Bulgaria, August 4-9, 2013, pp. 528-538. 2013.
13. (A) Stefano Faralli, Roberto Navigli. A New Minimally-Supervised Framework for Domain Word Sense Disambiguation. Proc. of the 2012 Conference on Empirical Methods in Natural Language Processing (EMNLP 2012), Jeju, Korea, July 12-14, pp. 1411-1422. 2012.
14. Paola Velardi, Roberto Navigli, Stefano Faralli and J M Ruiz-Martinez. A New Method for Evaluating Automatically Learned Terminological Taxonomies. Proceedings of the 8th Conference on International Language Resources and Evaluation (LREC 2012), Istanbul, Turkey, May 21-27, 2012.
15. (A*) Roberto Navigli, Paola Velardi, Stefano Faralli. A Graph-based Algorithm for Inducing Lexical Taxonomies from Scratch. In Proc. of the 22nd International Joint Conference on Artificial Intelligence (IJCAI 2011), Barcelona, Spain, July 19-22th, 2011.

16. (A) Roberto Navigli, Stefano Faralli, Soroa A., Lopez de Lacalle O., Agirre E. Two Birds with One Stone: Learning Semantic Models for Text Categorization and Word Sense Disambiguation. Proceedings of ACM International Conference on Information and Knowledge Management (CIKM 2011), Glasgow, 2011.
17. Semi Ryu, Stefano Faralli, Crying With the Virtual, in Proceedings of the International Symposium on Electronic Art (ISEA 2011), Istanbul, 2011.
18. Semi Ryu, Stefano Faralli, SAE-GURIMJA: Three shadows, Proceedings of the 2nd international congress Computer Art Congress Toluca and Mexico City. March 26 - 28, 2008 Edited by Khaldoun Zreik and Everardo Reyes Garca
19. Semi Ryu, Stefano Faralli. Experimental Virtual Wayang. In Proceedings of ISEA2008, ISBN:978-981-08-0768-9, pp. 396-398, Singapore 2008.
20. Semi Ryu, Stefano Faralli, Paolo Bottoni, Anna Labella. From Traditional to Virtual Interactive Puppetry: A Comprehensive Approach. In Proceedings of ISEA2008, pp. 396-398, Singapore 2008.
21. Paolo Bottoni, Stefano Faralli, Anna Labella, Alessio Malizia, Mario Pierro, Semi Ryu. CoPuppet: Collaborative Interaction in Virtual Puppetry. Proc. DAW '07: www.digitalartweeks.ethz.ch/docs/daw07proc/paper-ryu.pdf
22. Paolo Bottoni, Anna Labella, Alessio Malizia, and Claudio Scozzafava. 2006. CHAMBRE: integrating multimedia and virtual tools. In Proceedings of the Working Conference on Advanced Visual interfaces (Venezia, Italy, May 23 - 26, 2006). AVI '06. ACM Press, New York, NY, pp. 285-292. 2006.
23. Paolo Bottoni, Stefano Faralli, Anna Labella, Mario Pierro, "Mapping with planning agents in the Max/MSP environment: the GO/Max language ", Proc NIME 2006, pp.322- 325, 2006.
24. Paolo Bottoni, Alessandro Cinnirella, Stefano Faralli, Patrick Maurelli, Emanuele Panizzi, Rosa Trinchese, "Multimedia Annotation of Geo-Referenced Information Sources", B. Günsel et al. (eds.), Proc. MRCS 2006, LNCS 4105, pp.675682, Springer, 2006.
25. Paolo Bottoni, Stefano Faralli, Anna Labella, Mario Pierro, Claudio Scozzafava, Interactive Composition, Performance and Music Generation through Iterative Structures, In proc of ACM Multimedia, S Barbara. 2006.
26. Alessandro Cinnirella. Stefano Faralli, Anna Labella, Patrick Maurelli, Mario Pierro and Flavio Rosa, MUST System - Location Based Services and Multilingual Simultaneous Transmission for Tourist Fruition, In proc of CIPA/VAST, Nicosia Cyprus. 2006.
27. Alessandro Cinnirella, Stefano Faralli, Anna Labella, Patrick Maurelli, Mario Pierro and Flavio Rosa, Multimedia Annotation through WebGIS and Mobile Devices:Wireless Infrastructure Project for the UNESCO Site in Cerveteri Italy, In proc of CIPA/VAST, Nicosia Cyprus. 2006.
28. Paolo Bottoni, Stefano Faralli, Anna Labella,Claudio Scozzafava: CHAMBRE: A distributed environment for the production of multimedia events, DMS'2004. Proceedings of the 10th International Conference on Distributed Multimedia Systems, San Francisco, pp.51-56. 2004.

SYSTEM DEMONSTRATIONS:

1. (A*) Stefano Faralli, Roberto Navigli. A Java Framework for Multilingual Definition and Hypernym Extraction. Proc. of the 51st Annual Meeting of the Association for Computational Linguistics, System Demonstrations (ACL 2013), Sofia, Bulgaria, August 4-9, pp. 103-108. 2013.

POSTERS:

1. (A*) Stefano Faralli, Christian Bizer, Kai Eckert, Robert Meusel and Simone Paolo Ponzetto A Web application to search a large repository of taxonomic relations from the Web. In: CEUR workshop proceedings ISWC-P&D 2016 : Proceedings of the ISWC 2016 Posters & Demonstrations Track co-located with 15th International Semantic Web Conference (ISWC 2016) Kobe, Japan, October 19, 2016; Paper 58. RWTH, Aachen, 2016.

2. (A*) Jonas Bulegon Gassen, Stefano Faralli, Simone Paolo Ponzetto and Jan Mendling Who-Does-What: a knowledge base of people's occupations and job activities. In: CEUR workshop proceedings ISWC-P&D 2016 : Proceedings of the ISWC 2016 Posters & Demonstrations Track co-located with 15th International Semantic Web Conference (ISWC 2016) Kobe, Japan, October 19, 2016; Paper 65. RWTH, Aachen, 2016.

WORKSHOPS:

1. (A) Alexander Panchenko, Stefano Faralli, Simone Paolo Ponzetto and Chris Biemann Using linked disambiguated distributional networks for word sense disambiguation. In: EACL 2017 Workshop on Sense, Concept and Entity Representations and their Applications : proceedings of the workshop, April 4, 2017 Valencia, Spain; 72-78. Association for Computational Linguistics, Stroudsburg, PA, 2017.
2. Stefano Faralli, Giorgia Di Tommaso and Paola Velardi Semantic enabled recommender system for micro-blog users. In: IEEE International Conference on Data Mining Workshops (ICDMW 2016) : Dec. 12 -15, 2016, Barcelona, Spain ; proceedings; 992-998. IEEE Computer Society, 2016.
3. (A)(Candidate for best ISWC 2016 Challenge paper) Stefano Faralli and Simone Paolo Ponzetto DWS at the 2016 Open Knowledge Extraction Challenge : a hearst-like pattern-based approach to hypernym extraction and class induction. In: Communications in computer and information science Semantic Web Challenges : Third SemWebEval Challenge at ESWC 2016, Heraklion, Crete, Greece, May 29 - June 2, 2016, Revised Selected Papers; 48-60. Springer International Publishing, Cham, 2016.
4. (A) Alexander Panchenko, Stefano Faralli, Eugen Ruppert, Steffen Remus, Hubert Naets, Cdrick Fairon, Simone Paolo Ponzetto and Chris Biemann TAXI at SemEval-2016 Task 13: a taxonomy induction method based on lexico-syntactic patterns, substrings and focused crawling. In: The 10th International Workshop on Semantic Evaluation : Proceedings of the Workshop : Sem-Eval-2016 : June 16-17, 2016, San Diego, California, USA; 1196-1203. Association for Computational Linguistics, Stroudsburg, Pa., 2016.
5. (A) Georgeta Bordea, Paul Buitelaar, Stefano Faralli, Roberto Navigli. Semeval-2015 task 17: Taxonomy Extraction Evaluation (TExEval), Proceedings of the 9th International Workshop on Semantic Evaluation Association for Computational Linguistics. 2015.
6. Augusto Celentano, Stefano Faralli, Fabio Pittarello: The Situation Lens: Looking into Personal Service Composition. ER Workshops 2008: pp.165-174. 2008.