

ROBERTO NAVIGLI

CURRICULUM VITÆ

Roma, 4 ottobre 2022

Part I – General Information

Full Name	Roberto Navigli
Citizenship	Italian
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Spoken languages	Italian, English, French
Sito Web	http://wwwusers.diag.uniroma1.it/navigli

Part II – Education

Type	Year	Institution	Notes (Degree, Experience, etc.)
Ph.D.	2007	Sapienza	PhD in Computer Science, advisor: prof. Paola Velardi. Thesis: "Structural Semantic Interconnections: a Knowledge-Based WSD Algorithm, its Evaluation and Applications", Winner of the 2017 AI*IA "Marco Cadoli" national prize for the best PhD thesis in AI.
University graduation	2001	Sapienza	Master degree in Computer Science, 110/110 cum laude. Thesis: "An automatic algorithm for domain ontology learning", supervisor: prof. Paola Velardi.

Part III – Appointments

III(A) – Academic and Spinoff Appointments

Start	End	Institution	Position
09/2017	today	Sapienza	full professor , Dipartimento di Ingegneria Informatica, Automatica e Gestionale (previously at Dipartimento di Informatica), Università di Roma "La Sapienza".
03/2016	today	Babelscape	co-founder ,
12/2010	08/2017	Sapienza	associate professor , Dipartimento di Informatica, Università di Roma "La Sapienza".
03/2007	12/2010	Sapienza	assistant professor , Dipartimento di Informatica, Sapienza.
05/2003	03/2007	Sapienza	research fellow , Dipartimento di Informatica, Sapienza.

III(B) – Other Appointments

Start	End	Institution	Position
05/2000	04/2003	YH Reply S.p.A. Roma	software engineer

III(C) – Research visits and stays

Start	End	Institution	Position
01/2015	01/2015	Center for Advanced Studies (CAS), LMU, Germany	Invited Visiting Fellow
2010	2012	University of Wolverhampton (UK)	Visiting professor
11/2009	12/2009	University of Edinburgh (UK)	Visiting researcher
01/2009	02/2009	University of Edinburgh (UK)	Visiting researcher
09/2008	09/2008	University of Sussex (UK)	Visiting research fellow
01/2008	02/2008	University of Edinburgh (UK)	Visiting researcher
11/2006	05/2007	University of Sussex (UK)	Visiting research fellow
01/2006	04/2006	University of Edinburgh (UK)	Visiting researcher

III(D) – Institutional activities

Start	End	Activity
2012	2021	Referente del Dipartimento per l'orientamento e le scuole superiori, inclusa l'organizzazione di Porte Aperte alla Sapienza e altre attività tra cui seminari divulgativi presso le scuole e Alternanza Scuola Lavoro.
2015	2021	Docente responsabile dell'organizzazione della giornata di orientamento OpenDI.
2013	2018	Membro della commissione di dottorato di Dipartimento.
2010	2014	Membro della commissione scientifica di Dipartimento.
2011	2014	Membro della commissione biblioteca di Dipartimento.
2009	2009	Co-organizzatore del Workshop del Dipartimento di Informatica.
2008	2008	Membro della commissione giudicatrice per l'ammissione al XXIV ciclo di Dottorato di Ricerca.
2007	2009	Referente per il sito web del Dipartimento.
2007	2010	Membro della Commissione Percorsi d'Eccellenza.
2007	2021	Membro del Collegio di Dottorato in Informatica.

III(E) – Habilitations

Year	Habilitation
2012	Italian habilitation to full professor with maximum score.
2014	Qualification française à professeur des universités , French habilitation to full professor.

Part IV – Teaching experience

Year	Institution	Lecture/Course
2022	Sapienza	Docente del corso di Elective in AI (in inglese, laurea magistrale in AI & Robotics).
2022	Sapienza	Docente del corso di Fondamenti di Informatica (I anno del Corso di Laurea in Ingegneria Gestionale).
2022	Sapienza	Docente del corso di Natural Language Processing (in inglese, laurea magistrale in AI & Robotics + Engineering in Computer Science).
2021	Sapienza	Docente del corso di Metodologie di Programmazione (primo anno, laurea triennale in informatica).
2021	Sapienza	Docente del corso di Natural Language Processing (in inglese, laurea magistrale in informatica).
2020	Sapienza	Docente del corso di Metodologie di Programmazione (primo anno, laurea triennale in informatica).
2020	Sapienza	Docente del corso di Natural Language Processing (in inglese, laurea magistrale in informatica).
2019	Sapienza	Docente del corso di Metodologie di Programmazione (primo anno, laurea triennale in informatica).
2019	Sapienza	Docente del corso di Natural Language Processing (in inglese, laurea magistrale in informatica).
2018	Sapienza	Docente del corso di Metodologie di Programmazione (primo anno, laurea triennale in informatica).
2018	Sapienza	Docente del corso di Natural Language Processing (in inglese, laurea magistrale in informatica).
2017	Sapienza	Docente del corso di Metodologie di Programmazione (primo anno, laurea triennale in informatica).
2017	Sapienza	Docente del corso di Natural Language Processing (in inglese, laurea magistrale in informatica).
2016	Berlino, Germania	Docente selezionato di un tutorial di 3 ore sul tema "Semantic Representations of Word Senses and Concepts" ad ACL, conferenza di riferimento dell'NLP (con Camacho-Collados, Iacobacci e Pilehvar). Il tutorial ha avuto il numero eccezionale di 166 partecipanti , il secondo maggior numero di partecipanti su 8 tutorial.
2016	Sapienza	Docente del corso di Metodologie di Programmazione (primo anno, laurea triennale in informatica).
2016	Sapienza	Docente del corso di Natural Language Processing (in inglese, laurea magistrale in informatica).
2016	Sapienza	Docente di due lezioni introduttive all'informatica, LUISS Summer School.
2015	Unitelma Sapienza	Docente scelto per le registrazioni del corso di Metodologie di Programmazione in teledidattica, Sapienza-Unitelma.
2015	Sapienza	Docente del corso GameInvaders di programmazione videogiochi da zero per studenti dei licei romani (11 lezioni da 2 ore ciascuna).
2015	Sapienza	Docente del corso di Metodologie di Programmazione.
2015	Sapienza	Docente del corso di Natural Language Processing (in inglese).
2015	Sapienza	Docente di un lezione introduttiva all'informatica, LUISS Summer School.
2015	EUROLAN School	Docente invitato presso la scuola estiva 12th EUROLAN Summer School, Sibiu, Romania (corso: 3 ore).
2014	Sapienza	Docente del corso di Metodologie di Programmazione.
2014	Sapienza	Docente del corso di Natural Language Processing (in inglese).
2014	Sapienza	Docente di un lezione introduttiva all'informatica, LUISS Summer School.
2013	Sapienza	Docente del corso di Metodologie di Programmazione.
2013	Sapienza	Docente del corso di Elaborazione del Linguaggio Naturale (insegnato in inglese).
2013	Università di Bari	Docente invitato di un tutorial di 3 ore sulla semantica computazionale tenuto nell'ambito dei Laboratori dal Basso.
2012	Sapienza	Docente del corso di Metodologie di Programmazione.

2012	Sapienza	Docente del corso di Elaborazione del Linguaggio Naturale (insegnato in inglese).
2011	Univ. of Ljubljana	Docente ESSLLI (European Summer School on Language, Logic and Information), scuola estiva di riferimento per NLP e logica.
2010	Univ. of Copenhagen	Docente ESSLLI (European Summer School on Language, Logic and Information), scuola estiva di riferimento per NLP e logica.
2010	Sapienza	Docente del corso di Apprendimento Automatico (terzo anno, laurea triennale in informatica).
2009	Sapienza	Docente del corso di Apprendimento Automatico.
2009	Borovets, Bulgaria	Docente invitato di un tutorial di 3 ore tenuto su metodi basati su grafi per l’NLP tenuto presso la conferenza RANLP (Recent Advances in Natural Language Processing).
2008	U. Basque Country	Docente invitato di una lezione introduttiva di 3 ore sulla Word Sense Disambiguation.
2008	Sapienza	Docente del corso di Apprendimento Automatico.
2007	Sapienza	Docente del corso di Laboratorio di Programmazione (primo anno, laurea triennale in informatica).
2007	Sapienza	Esercitatore del corso di Architetture degli Elaboratori (primo anno, laurea triennale in informatica).
2007	Sapienza	Esercitatore del corso di Programmazione II (primo anno, informatica).
2006	Sapienza	Esercitatore del corso di Architetture degli Elaboratori.
2006	Sapienza	Esercitatore del corso di Programmazione II.
2005	Sapienza	Esercitatore del corso di Architetture degli Elaboratori.
2004	Sapienza	Esercitatore del corso di Architetture degli Elaboratori.
2004	Sapienza	Esercitatore del corso di Programmazione II.
2003	Sapienza	Esercitatore del corso di Architetture degli Elaboratori.

Supervision of **more than 100 B.Sc. and M.Sc. students** in computer science on Natural Language Processing, AI, video game programming and other topics.

Part V – Society memberships, Awards and Honors

V(A) – Awards and Prizes

Year	Title
2022	ACL Best Resource Paper Award: DiBiMT: A Novel Benchmark for Measuring Word Sense Disambiguation Biases in Machine Translation
2021	NAACL Outstanding Paper Award: Unifying Cross-Lingual Semantic Role Labeling with Heterogeneous Linguistic Resources
2021	Both ERCs selected among the 15 ERC projects that have transformed science , top 1% of ERC projects. https://www.uniroma1.it/en/notizia/two-sapienzas-erc-projects-have-transformed-science
2020	Listed by Stanford among the World's Top 2% scientists https://www.uniroma1.it/en/notizia/sapienza-world-ranking-scientist
2018	IJCAI 2018 Early Career Spotlight , invited talk.
2017	Winner of the Artificial Intelligence Journal Prominent Paper Award 2017 .
2017	First Italian to have won two prestigious ERC grants in computer science , an ERC Starting Grant (1.3 million euros) and an ERC Consolidator Grant (1.5 million euros).
2017 and 2019	Member of the ERC Starting Grant evaluation panel (PE6 - computer science) since 2017. "Each ERC panel consists of a chairman and 10-16 members. The Panel Chair and the Panel Members are selected by the ERC Scientific Council on the basis of their scientific reputation . For each call, 25 high-level panels of eminent scientists and scholars have been assembled to take overall responsibility for the selection of the most promising candidates that will receive these significant grants."
2015	Winner of the META prize 2015 as the creator of BabelNet, "awarded on an annual basis to outstanding products or services supporting the European Multilingual Information Society". META (Multilingual Europe Technology Alliance) is an association with 817 members, including universities and companies. http://www.meta-net.eu/meta-prize
2013	Winner of a Google Focused Research Award (with Hans Uszkoreit and Feiyu Xu, 2013-2016) in Natural Language Understanding: "Language Understanding cum Knowledge Yield (LUcKY)".
2014	Winner of an Ateneo "Award" 2014 project.
2014	Best poster award at SEMANTiCS 2014 , "Three birds (in the LLOD cloud) in one stone: BabelNet, Babelfy and the Wikipedia Bitaxonomy", joint with T. Flati.
2013	Best paper award nominee at ACL 2013 , "Align, Disambiguate and Walk", joint with M. T. Pilehvar and David Jurgens.
2013	Winner of the biennial AI*IA "Marco Somalvico" National Prize in AI for young researchers (under 35) who carried out research in Italy and provided a significant personal contribution to the field of AI.
2012	Winner of one of the 32 Sapienza Research fellowship for scientific research reserved to under-40 professors .
2010	First Italian researcher to win an ERC Starting Grant in Computer Science (1.3M euros).
2010	"What's up - Giovani Talenti" International Prize for scientific research , Campidoglio, Rome, 2010
2007	Winner of AI*IA "Marco Cadoli" National Prize for the Best Ph.D. Thesis in AI .
2008	Winner of a short visit research grant , Royal Society of Edinburgh.
2006	Winner of a mobility grant , INTEROP Network of Excellence.

V(B) – Editorial Boards, Editorships, Advisory Boards, Chairs, Program Committees

Year	Title
2021	Program Chair di ACL 2021, conferenza di riferimento dell’NLP.
2020-2023	Action Editor di Transactions of the Association for Computational Linguistics (MIT Press), rivista di riferimento dell’NLP.
2021	Area Chair di IJCAI 2021, conferenza di riferimento di AI
2021	Area Chair di AAAI 2020 (American Association of Artificial Intelligence).
2020	Area Chair di IJCAI 2020, conferenza di riferimento di AI
2020	Area Chair di ECAI 2020 (European Conference on Artificial Intelligence).
2020	Senior Program Committee member di AAAI 2020 (American Association of Artificial Intelligence).
2019	Area Chair di AAAI 2019 (American Association of Artificial Intelligence).
2019	Senior Program Committee member di IJCAI 2019, conferenza di riferimento di AI.
2018-today	Member of the steering committee of the CINI National Laboratory on Artificial Intelligence and Intelligent Systems.
2013-2020	Associate Editor di Artificial Intelligence (Elsevier), rivista di riferimento nell’IA.
2014-2021	Standing Elite Reviewer di <i>Transactions of the Association for Computational Linguistics</i> (TACL), rivista di riferimento per l’NLP per ”conference-length papers”.
2018	Area Chair di IJCAI-ECAI 2018 (International Joint Conference on Artificial Intelligence), conferenza di riferimento di AI.
2018	Senior Program Committee member di AAAI 2018 (American Association of Artificial Intelligence), conferenza di riferimento di AI.
2017	Senior Program Committee member di AAAI 2017 (American Association of Artificial Intelligence), conferenza di riferimento di AI.
2016	Special track chair per il trattamento automatico del multilinguismo di ESWC 2017 (Extended Semantic Web Conference), conferenza sul Web Semantico.
2016	Area chair di CLIC 2016 (Italian Conference on Computational Linguistics).
2016	Area chair di COLING 2016 (26th International Conference on Computational Linguistics).
2016	Area chair di *SEM 2016, conferenza di NLP nell’area di Lexical resources, linked data, ontologies.
2015-2016	Advisory Board member di EACL (European Chapter of the Association for Computational Linguistics).
2010-2020	Editorial Board member di Natural Language Engineering (Cambridge University Press).
2015	Membro del comitato editoriale dello special issue su Knowledge graphs, Journal of Web Semantics (Elsevier).
2015	Guest editor di Web Semantics (Elsevier), rivista di riferimento per il Web Semantico.
2014-2015	Membro del comitato direttivo dell’Associazione Italiana per l’Intelligenza Artificiale.
2014-today	Advisory Board member dello Special Interest Group on the Lexicon (SIGLEX).
2014	Program chair di *SEM 2014, conferenza di NLP e computational lexical semantics.
2013	Area chair di *SEM 2013, conferenza di NLP e computational lexical semantics.
2013	Guest editor di Artificial Intelligence (Elsevier).
2013	Publication chair di ACL 2013, conferenza di riferimento per l’NLP.
2013	Lab chair di CLEF 2013 (Cross Language Evaluation Forum).
2012	Track chair di WWW 2012, conferenza di riferimento per il Web.
2012-today	Membro dell’Editorial Board della serie di libri Text, Speech and Language Technology (Springer).
2011-2013	Membro dell’Editorial Board (2011-2013) di Computational Linguistics (MIT Press), rivista di riferimento per l’NLP.
2011	Senior Program Committee member di IJCAI (International Joint Conference on Artificial Intelligence), conferenza di riferimento di Intelligenza Artificiale.
2010	Area chair di ACL 2010, conferenza di riferimento per l’NLP.
2010-today	Membro dell’Advisory Board della collana di NLP, John Benjamins.
2009	Senior Program Committee member di IJCAI (International Joint Conference on Artificial Intelligence), conferenza di riferimento di Intelligenza Artificiale.
2007-2010	Membro dell’Executive Board dello Special Interest Group on the Lexicon (SIGLEX).

2007-today	Session Chair per conferenze e workshop, tra cui: ACL 2014, WWW 2012, EACL 2009, RANLP 2009, Semeval-2007.
2006-today	Membro dei comitati di programma delle maggiori conferenze di elaborazione del linguaggio naturale, tra cui: ACL (2006-oggi), NAACL (2010-oggi), EACL (2009-oggi), COLING (2006-oggi), EMNLP (2006-oggi), RANLP (2007-oggi), FLAIRS (2006-2008, 2011) e di intelligenza artificiale IJCAI (2009-oggi) e AAAI (2011-12, 2015-oggi).
2005-today	Revisore per numerose riviste internazionali: ACM Surveys, ACM TOIS, ACM TSLP, AIJ, Computational Linguistics, CSL, IEEE TKDE, IEEE Intelligent Systems, DKE, Journal of Data Semantics, IEEE Computer, Information Systems, VLDB Journal, ACM TKDD, IEEE Transactions on ASLP, TACL, JAIR, ACM TWeb.

V(C) – Invited/Keynote Talks at Conferences, Workshops and Summer Schools

Year	Type	Conference
2022	invited speaker	Fourth Iberoamerican and Third Indo-American Conference Knowledge Graph and Semantic Web Conference (KGSWC), Madrid, 21-23 November 2022
2022	invited speaker	2022 Conference of European Statistics Stakeholders (CESS), Rome, 20-22 October 2022
2022	invited speaker	Multilingual Digital Terminology Today conference, Padua, 16-17 June 2022
2021	invited speaker	SBU NLP Talk Series, online, 23 June 2021
2021	invited speaker	Evening Speech at the AILC Lectures on Computational Linguistics, Rome, Italy, 16 June 2021
2021	invited speaker	Goldman Sachs.
2021	invited speaker	Facebook Artificial Intelligence Research (FAIR) seminars.
2021	invited speaker	Joint Workshop on Multiword Expressions and Electronic Lexicons (MWE-LEX), Barcelona, Spain.
2020	invited speaker	2020 International Conference on Computational Linguistics and Natural Language Processing (CLNLP), Seoul, South Korea.
2020	invited speaker	5th SwissText & 16th KONVENS (SwissText+KONVENS 2020), Zurich, Switzerland.
2020	Invited speaker	Applied Machine Learning Days (AMLDD) at EPFL, Lausanne, Switzerland.
2020	invited speaker	Convegno dell'Associazione per l'Informatica Umanistica e la Cultura Digitale (AIUCD), Milan, Italy
2019	invited speaker	Artificial Intelligence Symposium organized by the European Academy of Science
2019	invited speaker	European Research Council, Brussels, Belgium, 20 September 2019.
2018	invited speaker	EduIA - First Italian Conference on Education and AI, Roma Tre.
2018	invited speaker	TranslatingEurope, Istituto di Alti Studi SSML Carlo Bo.
2018	invited	Dagstuhl Seminar on “Knowledge Graphs”, Schloss Dagstuhl.
2018	keynote speaker	2018 Conference Chinese Knowledge Graph and Semantic Computing (CCKS), Tianjin, China.
2018	invited speaker	Early Career Spotlight track at IJCAI-ECAI 2018, Stockholm, Sweden.
2018	keynote speaker	2018 International Conference on Statistical Analysis of Textual Data (JADT), Rome, Italy.
2017	invited speaker	Conference on Computational Approaches to Diversity in Interaction and Meaning, Venice, Italy.

2017	keynote speaker	39th Conference on Translating and the Computer, London, UK.
2017	keynote speaker	Recent Advances in Natural Language Processing (RANLP 2017), Varna, Bulgaria.
2017	keynote speaker	3rd International Workshop on Natural Language Processing for Informal Text (NLPIT 2017) joint with The International Conference on Web Engineering (ICWE 2017), Rome, Italy.
2017	keynote speaker	1st Workshop on Sense, Concept and Entity Representations and their Applications (SENSE) joint with EACL 2017, Valencia, Spain.
2016	invited speaker	Inaugural Conference of the Artificial Intelligence Research Institute (AIRI), South Korea, 11th October 2016.
2016	invited speaker	WebNLG workshop: 2nd International Workshop on Natural Language Generation and the Semantic Web, Edinburgh, UK, September 6, 2016.
2016	invited speaker	European Union Intellectual Property Office (EUIPO), 28th June, 2016.
2016	invited speaker	DigiCosme Research Days 2016, evento annuale tenuto dai membri del laboratorio d'eccellenza DigiCosme, Centrale-Supélec.
2016	invited speaker	Luxembourg BabelNet workshop, workshop monotematico sulla ricerca del prof. Navigli organizzato congiuntamente da EU Commission, EU Parliament e EU Publications Office, 2-3 marzo 2016.
2016	invited guest & speaker	Evento annuale ICT4INTEL, organizzato dal Sistema di informazione per la sicurezza della Repubblica.
2016	invited	Google NLP Workshop 2016, Londra, 2016.
2015	keynote speaker	DRONGO language festival, Utrecht, Netherlands.
2015	invited speaker	Oxford Global Languages Symposium, Oxford (UK), organizzato da OUP.
2015	invited speaker	4th eLex conference on Electronic Lexicography in the 21st century: Linking lexical data in the digital age.
2015	invited speaker	5th Lisbon Machine Learning School (LxMLS), Lisbon, Portugal.
2015	invited professor	12th EUROLAN Summer School, Sibiu, Romania.
2015	invited speaker	11th Summer School on Ontology Engineering and the Semantic Web (SSSW), Bertinoro, Italy.
2015	invited speaker	TALN 2015 – 22ème Conférence sur le Traitement Automatique des Langues Naturelles, Caen, France.
2015	keynote speaker	21st International Conference on Computational Linguistics (DIALOG), Moscow, Russia.
2015	invited speaker	Multilingual Web Access (MWA) 2015 Workshop – colocated with WWW 2015, Firenze.
2014	keynote speaker	NLP & DBpedia 2014 Workshop – colocated with ISWC 2014, Riva Del Garda, Italy.
2014	invited speaker	Workshop on Cognitive Aspects of the Lexicon (CogALex-IV), Dublin, Ireland.
2014	keynote speaker	30th Spanish Conference on Natural Language Processing (SEPLN), Girona, Spain.
2013	invited speaker	6th International Joint Conference on Natural Language Processing (IJCNLP 2013), Nagoya, Japan.
2013	keynote speaker	10th International Conference on Terminology and Artificial Intelligence, Paris, France.
2013	keynote speaker	14th International Conference on Intelligent Text Processing and Computational Linguistics (CICLing), Samos, Greece.
2013	keynote speaker	3rd Workshop on Data Extraction and Object Search (DEOS), Oxford, UK.
2013	invited tutorialist	Laboratori dal Basso, Università di Bari.

2012	invited	Dagstuhl Seminar su “The Multilingual Semantic Web”, Schloss Dagstuhl.
2012	invited speaker	3rd Workshop on the Multilingual Semantic Web, Boston, USA.
2011	invited	Google EMEA NLP Faculty Summit, Zurich, Switzerland.
2012	invited speaker	6th International Workshop on Uncovering Plagiarism, Authorship, and Social Software Misuse (PAN’12), Rome, Italy.
2012	invited speaker	3rd Italian Information Retrieval Workshop (IIR 2012), Bari, Italy.
2012	invited speaker	38th International Conference on Current Trends in Theory and Practice of Computer Science (SOFSEM 2012), Špindlerův Mlýn, Czech Republic.
2011	keynote speaker	Recent Advances in Natural Language Processing (RANLP 2011), Borovets, Bulgaria.
2010	invited speaker	Workshop AI*IA 2010 on Human Language Technologies for Italian, Brescia, Italy.

Ha inoltre tenuto **seminari di ricerca su invito** presso **oltre 30 università e istituti di ricerca**: U. of Prague, U. of Helsinki, CNRS Orsay/Paris Sud, U. Grenoble, U. Hannover, U. Fribourg, U. Paris 7, LMU Munich, Bing Munich, U. Bologna, U. Paris 13, U. Darmstadt, Max Planck Institute Saarbrücken, U. Politecnica de Madrid, UZH - Universität Zürich, National University of Ireland, Galway (DERI), Columbia U., U. Oxford, DFKI Berlin, U. Bari, U. Milano Bicocca, U. Politecnica de Valencia, U. Sheffield, U. Calabria, U. Trento, U. Heidelberg, U. Cambridge, U. Wolverhampton, U. Edinburgh, U. Basque Country, U. Sussex, IRST-ITC, U. Tor Vergata, IASI-CNR, ISTC-CNR.

V(D) – Press coverage

Some newspaper articles which cover prof. Navigli’s scientific results:

- **Focus interview, 13/08/2022**, on the future of intelligent personal assistants: “Come si addestra un software [di conversazione]” e “Le prossime frontiere”
- Articolo su **Il Messaggero del 17/05/2021**: Così le macchine decifreranno le lingue per noi
- Articolo su **Il Tascabile Treccani del 15/06/2018**: Come salvare una lingua?
- Articolo su **The Guardian del 23/02/2018**: Inside the OED: can the world’s biggest dictionary survive the internet?
- Articolo su **Dnevnik del 02/03/2018**: Računalnik učimo brati časopisne članke (We teach computers to read newspaper articles).
- Articolo su **ANSA del 23/02/2017**: Wikipedia, è ‘guerra’ invisibile tra i robot correttori.
- Articolo sul **TIME del 23/05/2016**: “Redefining the modern dictionary”.
- Articolo su **La Nazione/Il Resto del Carlino/Il Giorno/Quotidiano Nazionale del 3/12/2015**: “La lingua universale nasce in Rete: BabelNet, il dizionario del sapere”.
- Intervista su **Slator.com, 24/11/2015**: “Deep Insights on Big News: Experts React to Spain’s \$100M Language Tech Investment”.
- Articolo su **Slator.com, 29/10/2015**: “EU’s BabelNet Is Starting to Break through to Business Applications”.
- Articolo su **TAUS review, April 2015**: “BabelNet – How the World Can Help Disambiguate Words”.
- Articolo su **Repubblica del 2/11/2014**: “Lost in translation”, relativo alle risorse computazionali allo stato dell’arte per la traduzione.
- Articolo su **Corriere della Sera del 12/9/2010**: “Quei tre supercervelloni: quando il talento paga”, relativo al progetto ERC Starting Grant.

Part VI – Funding Information [grants as PI-principal investigator or I-investigator]

VI(A) – Project Portfolio

Finanziamenti ottenuti per un **totale di circa 4 milioni di euro (personal share)**:

Year	Title	Program	Grant value
2022-2025	CREATIVE:CRoss-modal understanding and gEnerATIOn of Visual and tExtual content	PRIN	ca. 897,000 euro (personal share: ca. 321,000 euro)
2021-2022	Universal Semantic Annotator (USeA)	UE European Language Grid	113,000 euro (personal share)
2019-2022	PerLIR: Personal Linguistic resources in Information Retrieval	PRIN	324,000 euro (personal share: 100,640 euro)
2018-2022	European Lexicographic Infrastructure (ELEXIS), contract n. 731015 (Sapienza coordinator)	EU Infrastructure Project	4,999,967 euro ca. (personal share: ca. 450,000 euro)
2017-2022	Multilingual Open-text Unified Syntax-independent SEmantics (MOUSSE), contract 726487 (PI)	ERC Consolidator Grant in “Computer science and informatics”	1,500,000 euro ca.
2015-2017	SINAPSI (PI for NLP)	Joint Project CINI-Sapienza	300,000 euro (personal share: 100,000 euro)
2013-2016	Language Understanding cum Knowledge Yield (LUcKY) (Co-PI with Hans Uszkoreit and Feiyu Xu, DFKI Berlin)	Google Focused Research Award in “Natural Language Understanding”	222,000 USD (personal share: 37,000 USD)
2013-2015	Linked Data as an enabler of cross-media and multilingual content analytics for enterprises across Europe (LIDER), contract number 610782 (Sapienza PI)	EU FP7 ICT-2013.4.1	1,482,000 euro (personal share: ca. 90,000 euro)
2011-2016	Multilingual Joint word sensE DIambiguation (MultiJEDI), contract number 259234 (PI)	ERC Starting Grant in “Computer science and informatics”	1,300,000 euro ca.
2016	Gamification for Supporting Cross-Lingual Learning in Higher Education (PI)	Sapienza Project 2015	10,000 euro
2015	Women and Social Leadership (WeSocial) (PI)	Sapienza Project ”Awards” 2014	36,925 euro
2013	Combining the Structure and Content of Social Networks for Acquiring Novel, Up-to-date Knowledge (PI)	Sapienza Project 2012	13,500 euro
2012	Mining the Web to Acquire Multicultural and Multilingual Semantic Networks (PI)	Sapienza Project 2011	28,600 euro
2011	Acquisizione Automatica di Glossari e Ontologie Multilingue e Multimediali (PI)	Sapienza Project 2010	35,000 euro
2010	Analisi di reti sociali basata sul contesto (PI)	Sapienza Project 2009	41,600 euro

VI(B) – Technological Transfer

Co-founder (75% share) of Babelscape srl (<http://babelscape.com>), a **Sapienza startup company**, thanks to which he demonstrated **strong abilities in the technological transfer of the scientific research** carried out in the multilingual NLP lab. The company has several contracts with big companies and public bodies.

Part VII – Research Activities

This part is in Italian.

Keywords	Brief Description
Natural Language Processing (NLP)	La ricerca si colloca nell'ambito dell'elaborazione del linguaggio naturale, area dell'informatica e dell'Intelligenza Artificiale che riguarda il trattamento del testo e ha come obiettivo la comprensione automatica dello stesso.
Word Sense Disambiguation (WSD) & Induction	Tra gli obiettivi primari, ho lavorato e tuttora lavoro alla risoluzione automatica dell'ambit� lessicale, un problema che � alla base della comprensione del testo. Abbiamo affrontato tale problema proponendo tecniche algoritmiche innovative basate sulla conoscenza, che permettono quindi di superare i limiti dei sistemi supervisionati, tra cui la necessit� di annotare manualmente grandi quantit� di frasi in ogni lingua, e ottenere prestazioni oltre lo stato dell'arte. Ho lavorato al problema anche da angolazioni differenti, quali l'induzione dei significati che una parola pu� esprimere con algoritmi basati su grafi e la proposta di un nuovo paradigma di disambiguazione basato sulla sostituzione lessicale, ora molto popolare nella comunit� scientifica.
Taxonomy and Ontology Learning	Un secondo obiettivo fondamentale della mia ricerca � quello di abilitare il ragionamento automatico permettendo una navigazione strutturata della conoscenza: per creare strutture tassonomiche ed ontologiche, anche specializzate, abbiamo proposto nuove tecniche algoritmiche basate su grafi, come OntoLearn e OntoLearn Reloaded, cos� come un algoritmo per la tassonomizzazione completa di una risorse enciclopedica come Wikipedia (la Wikipedia Bitaxonomy).
Knowledge Acquisition	Pi� in generale, ho affrontato il tema dell'acquisizione della conoscenza su larga scala, mediante approcci innovativi che hanno permesso la creazione della pi� grande rete semantica multilingue, BabelNet, a partire dall'integrazione automatica di oltre 10 risorse di conoscenza differenti (WordNet, Wikipedia, Wiktionary, Wikidata e molte altre). BabelNet � oggi una risorsa popolarissima non solo nell'ambito dell'NLP ma anche di molte altre aree dell'IA. A complemento di tali approcci abbiamo proposto algoritmi originali di Open Information Extraction che, mettendo insieme l'analisi sintattica e semantica, possono estrarre milioni di relazioni semantiche tra concetti ed entit�.
Multilinguality	Negli ultimi anni, anche grazie alla creazione di BabelNet, si � aperta un'intera nuova direzione di ricerca che mira a sviluppare algoritmi per l'NLP multilingue e che sto esplorando con il mio gruppo di ricerca. Tali algoritmi hanno la peculiarit� di incrociare le informazioni disponibili nelle diverse lingue, apprendendo automaticamente modelli che, da una parte, tengono conto delle complessit� di ciascuna lingua e, dall'altra, fanno leva sulle loro interazioni per migliorare le prestazioni nella comprensione del linguaggio. L'algoritmo di punta, Babelfy, non � attualmente comparabile con alcun risultato in letteratura: � infatti l'unico algoritmo in grado di effettuare disambiguazione ed entity linking congiuntamente e in qualsiasi lingua, permettendo inoltre la disambiguazione di un testo che usi lingue miste. Inoltre sono stati proposti numerosi approcci di rappresentazione lessico-semantica della conoscenza, alcuni dei quali che astraggono dalla lingua di partenza.
Semantic Web	Un obiettivo primario della mia ricerca � quello di rendere semantico il Web, abilitando cos� l'indicizzazione semantica, il trattamento e la ricerca di contenuti online per concetti ed entit�. Oltre a quanto riassunto sopra, abbiamo lavorato su problematiche di modellazione delle risorse di conoscenza, collegamento ad altre risorse e indicizzazione semantica di documenti utilizzando dati linguistici linkati (linguistic linked data).

Part VIII – Summary of Scientific Achievements

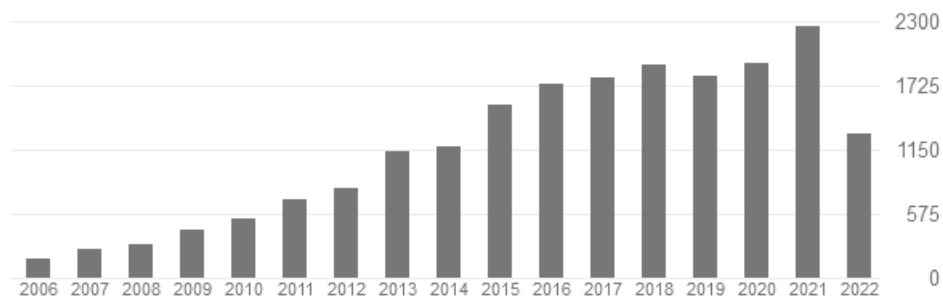
VIII(A) – Bibliometrics

Co-author of more than 200 publications, out of which:

Product type	Number	Database	Start	End
Journal papers [international]	37	Google Scholar	2002	2022
Conference papers [international]	174	Google Scholar	2002	2022
Workshop papers [international]	22	Google Scholar	2003	2022
Book chapters [scientific]	5	Google Scholar	2004	2022

- **57 papers on A*-class journals and conferences** according to the Australian CORE classification and **Q1** according to Scimago (among which: 1 ACM Computing Surveys, 2 IEEE Transactions on Pattern Analysis and Machine Intelligence, 5 Computational Linguistics, 7 Artificial Intelligence Journal, 1 Information Systems, 1 Knowledge-based Systems; 26 ACL, 10 IJCAI, 3 WWW, 7 AAAI).
- **38 papers on A-class journals and conferences** (among which: 2 Natural Language Engineering, 1 JAIR, 2 IEEE Intelligent Systems; 8 EACL, 3 NAACL, 12 EMNLP, 3 COLING, 4 ISWC, 2 CIKM, 1 ECAI).

Total Citations	20518
Hirsch (H) index	64



Citations retrieved from Google scholar.

- **Creation and management of the Sapienza NLP group**, currently with 1 post-doc and 11 Ph.D. students plus numerous visitors, all with publications in the top conferences and results beyond the state of the art. Former students and collaborators now work at **Amazon, Microsoft Bing, Huawei, University of Cambridge, University of Helsinki, University of Mannheim**, among others. A list of Ph.D. students (excluding those who just started) follows:
 1. Simone Tedeschi: *NER e Entity linking multilingue* (37esimo ciclo);
 2. Pere-Lluís Huguet Cabot: *multilingual Information Extraction* (37esimo ciclo);
 3. Alessandro Sciré: *Text summarization multilingue* (37esimo ciclo);
 4. Stefan Bejgu: *Multilingual semantic representations* (37esimo ciclo);
 5. Riccardo Orlando: *Multilingual Natural Language Understanding* (37esimo ciclo);
 6. Cesare Campagnano: *Semantic Role Labeling with applications* (36esimo ciclo);
 7. Carlos Abelardo Lorenzo Martinez: *Multilingual Semantic Parsing* (36esimo ciclo);
 8. Simone Conia: *Multilingual Semantic Role Labeling* (35esimo ciclo);
 9. Edoardo Barba: *Multilingual Word Sense Disambiguation and Alignment* (35esimo ciclo);
 10. Federico Martelli: *Multilingual Word-in-Context Disambiguation* (35esimo ciclo);
 11. Luigi Procopio: *Disambiguation and Semantic Parsing* (35esimo ciclo);
 12. Niccolò Campolungo: *Machine Translation and Word Sense Disambiguation* (35esimo ciclo);
 13. Bianca Scarlini: *the knowledge acquisition bottleneck and new explicit representations of meaning* (34esimo ciclo);
 14. Michele Bevilacqua: *state-of-the-art word sense disambiguation* (34esimo ciclo);
 15. Rexhina Blloshmi: *cross-lingual semantic parsing* (34esimo ciclo);
 16. Caterina Lacerra: *neural lexical substitution* (34esimo ciclo);
 17. Andrea Di Fabio: *multilingual resources for semantic role labeling* (33esimo ciclo);
 18. Marco Maru: *new approaches to Word Sense Disambiguation* (33esimo ciclo);
 19. Tommaso Pasini: *multilingual Word Sense Disambiguation on a large scale* (31esimo ciclo);
 20. Ignacio Iacobacci: *neural networks for novel representations of meanings* (30esimo ciclo);
 21. José Camacho-Collados (partial supervision): *multilingual knowledge-based semantic representations of meaning* (30esimo ciclo) – **winner of a Google Ph.D. fellowship**;
 22. Alessandro Raganato: *a full-fledged multilingual pipeline beyond the state of the art* (30esimo ciclo), now postdoc at the University of Helsinki;
 23. Claudio Delli Bovi: *integrating syntax and semantics for large-scale Web information extraction* (30esimo ciclo), now Applied Scientist in Natural Language Understanding at Amazon;
 24. Daniele Vannella: *automatic acquisition and enrichment of large knowledge bases* (28esimo ciclo);
 25. Tiziano Flati: *Learning of a Multilingual Bitaxonomy of Wikipedia and its Application to Semantic Predicates* (27esimo ciclo);
 26. Andrea Moro: *Natural Language Understanding: from Raw Text to Disambiguated Concepts, Entities and Relations* (27esimo ciclo), ora software engineer presso Microsoft Bing, Londra;
 27. Mohammad Taher Pilehvar: *Semantic Signatures: Rich and Flexible Representations of Lexical Meanings* (27esimo ciclo), now research associate at the University of Cambridge;
 28. Stefano Faralli: *Ontology Learning from Scratch* (27esimo ciclo), now researcher at Sapienza-Unitelma (formerly postdoc at the University of Mannheim);
- **External member** of several PhD committees: Université de Fribourg, Université de Grenoble, University of Coimbra, University of Melbourne, Roma Tor Vergata, University of Darmstadt, University of Canterbury, Universidad Politecnica de Catalunya, University of Munich LMU, University of Trento, La Trobe University.
- **Evaluator** for several research schemes: ERC Starting Grant, ERC Consolidator Grant, Future Emerging Technologies (FET), French ANR, Croatian, Portuguese, Belgian, Polish, Israeli projects, Italo-German projects and projects from Aix-Marseille and Università di Verona.
- **Workshop co-organizer**: "Semantics-Driven Statistical Machine Translation Theory and Practice (S2MT)", colocated with ACL 2015.

- **Workshop co-organizer:** “TEXAS: Taxonomy Extraction with Applications in Semantics”, colocated with EMNLP 2014.
- **Workshop co-organizer:** “Collaboratively-built knowledge sources and Artificial Intelligence”, colocated with AAAI 2010.

Publications

Publications with around 90 co-authors:

E. Agirre – University of the Basque Country, Spain, *C. Baron* – U. Leipzig, Germany, *M. Baroni* – U. Trento, *N. Bel* – U. Pompeu Fabra, Spain, *B. Berendt* – Humboldt University, Berlin, *P. Bottoni* – Sapienza, *S. Brody* – U. Edinburgh, *M. Brümmer* – U. Leipzig, Germany, *J. Camacho-Collados* – Sapienza, *D. Ceccarelli* – ISTI CNR, Pisa, *F. Cecconi* – Sapienza, *P. Cimiano* – U. Bielefeld, Germany, *L. Cinque* – Sapienza, *M. Cornolti* – U. Pisa, *G. Crisafulli* – Sapienza, *A. Cucchiarelli* – U. Politecnica delle Marche, *M. Curzi* – U. Politecnica delle Marche, *P. D’Amadio* – Sapienza, *F. D’Antonio* – U. Politecnica delle Marche, *F. De Benedictis* – Sapienza, *O. De Lacalle* – U. Basque Country, Spain, *A. De Nicola* – IASI CNR Roma, *C. Delli Bovi* – Sapienza, *A. Di Marco* – Sapienza, *M. Ehrmann* – Sapienza, *L. Espinosa-Anke* – U. Pompeu Fabra, Spain, *S. Faralli* – Sapienza, *M. Federico* – FBK, *P. Ferragina* – U. Pisa, *N. Ferro* – U. Padova, *T. Flati* – Sapienza, *P. Forner* – FBK, *A. Gangemi* – ISTC CNR Roma, *O. Hargraves* – Lexicographer, *L. Hennig* – DFKI, Germany, *E. Hovy* – ISI University of Southern California, *I. Iacobacci* – Sapienza, *D. Jurgens* – Sapienza/McGill, *B. Keller* – U. Sussex, *S. Krause* – DFKI, Germany, *M. Lapata* – U. Edinburgh, *C. Lemke* – U. Leipzig, Germany, *H. Li* – DFKI, Germany, *K. Litkowski* – CL Research, *B. Magnini* – FBK, *A. Malizia* – Universidad Carlos III de Madrid, *D. McCarthy* – U. Sussex, *J. McCrae* – U. Bielefeld, Germany, *S. Mendes* – Universidade de Lisboa, *M. Missikoff* – IASI CNR Roma, *A. Moro* – Sapienza, *H. Müller* – HES-SO, Svizzera, *F. Neri* – U. Politecnica delle Marche, *S. Neculescu* – U. Pompeu Fabra, Spain, *A. Ngonga Ngomo* – U. Leipzig, Germany, *R. Paredes* – Universidad Politecnica de Valencia, *F. Parisi Presicce* – Sapienza, *T. Pasini* – Sapienza, *R. Passonneau* – Columbia University, USA, *M. Petit* – U. Namur, *M. T. Pilehvar* – Sapienza, *S. Ponzetto* – U. Heidelberg, *A. Raganato* – Sapienza, *S. O. Rezende* – University of Sao Paulo, *G. Rizzo* – Eurecom, France, *F. Ronzano* – U. Pompeu Fabra, Spain, *R. G. Rossic* – University of Sao Paulo, *P. Rosso* – U. Politecnica de Valencia, *J. M. Ruiz-Martínez* – University of Murcia, *H. Sack* – U. di Potsdam, Germany, *H. Saggion* – U. Pompeu Fabra, Spain, *D. Scarfini* – Sapienza, *R. A. Sinoara* – University of Sao Paulo, *A. Soroa* – U. Basque Country, Spain, *R. Speck* – U. Leipzig, Germany, *B. Stein* – Bauhaus-Universität Weimar, *F. Suchanek* – Télécom ParisTech, France, *L. Telesca* – Sapienza, *D. Toscani* – Sapienza, *R. Tronci* – EURECOM, France, *D. Tufis* – RACAI, Romania, *R. Usbeck* – U. Leipzig, Germany, *H. Uszkoreit* – DFKI, Germany, *D. Vannella* – Sapienza, *P. Velardi* – Sapienza, *D. Weissenborn* – DFKI, Germany, *L. Wesemann* – U. Leipzig, Germany, *F. Xu* – DFKI, Germany.

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