

# ROBERTO NAVIGLI

## CURRICULUM VITÆ

Roma, 17 luglio 2018

### Part I – General Information

Full Name	Roberto Navigli
Citizenship	italiana
E-mail	navigli@di.uniroma1.it
Spoken languages	italiano, inglese, francese
Sito Web	<a href="http://wwwusers.di.uniroma1.it/~navigli">http://wwwusers.di.uniroma1.it/~navigli</a>

### Part II – Education

Type	Year	Institution	Notes (Degree, Experience, etc.)
University graduation	2001	Sapienza	Laurea in Informatica, <b>110 e lode</b> . Tesi: “Un algoritmo automatico per l’apprendimento di ontologie di dominio”, relatore: prof.ssa Paola Velardi.
Ph.D.	2007	Sapienza	Dottorato in Informatica (XIX ciclo), supervisor: prof.ssa Paola Velardi. Tesi: “Structural Semantic Interconnections: a Knowledge-Based WSD Algorithm, its Evaluation and Applications”, <b>Vincitore del premio AI*IA per Neo-Dottori di Ricerca “Marco Cadoli” 2007 per la miglior tesi di dottorato in Intelligenza Artificiale.</b>

### Part III – Appointments

#### III(A) – Academic Appointments

Start	End	Institution	Position
09/2017	oggi	Sapienza	<b>professore ordinario</b> (INF/01) Dipartimento di Informatica, Università di Roma “La Sapienza”.
12/2010	08/2017	Sapienza	<b>professore associato</b> (INF/01) Dipartimento di Informatica, Università di Roma “La Sapienza”.
03/2007	12/2010	Sapienza	<b>ricercatore universitario</b> (INF/01), Dipartimento di Informatica, Sapienza.
05/2003	03/2007	Sapienza	titolare di un <b>assegno di ricerca</b> dal titolo <i>Apprendimento automatico di ontologie e loro utilizzo in applicazioni di Intelligent Information Retrieval e Semantic Web</i> , Dipartimento di Informatica, Sapienza.

#### III(B) – Other Appointments

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

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	oggi	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	oggi	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	oggi	Membro del Collegio di Dottorato in Informatica.

III(E) – Habilitations

Year	Habilitation
tornata 2012	<b>Abilitazione italiana a professore ordinario</b> , ottenendo già nel 2013 il <b>massimo punteggio possibile</b> nella valutazione, avendo tutti gli aspetti della valutazione giudicati dalla commissione nazionale pienamente adeguati.
tornata 2014	<b>Qualification française à professeur des universités</b> , abilitazione francese corrispondente a quella italiana a professore ordinario.

## Part IV – Teaching experience

Year	Institution	Lecture/Course
2016	Berlino, Germania	<b>Docente</b> 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 <b>il numero eccezionale di 166 partecipanti</b> , il secondo maggior numero di partecipanti su 8 tutorial.
2016	Sapienza	<b>Docente</b> del corso di Metodologie di Programmazione (primo anno, laurea triennale in informatica).
2016	Sapienza	<b>Docente</b> del corso di Natural Language Processing (in inglese, laurea magistrale in informatica).
2016	Sapienza	<b>Docente</b> di due lezioni introduttive all'informatica, LUISS Summer School.
2015	Unitelma Sapienza	<b>Docente</b> scelto per le registrazioni del corso di Metodologie di Programmazione in teledidattica, Sapienza-Unitelma.
2015	Sapienza	<b>Docente</b> del corso GameInvaders di programmazione videogiochi da zero per studenti dei licei romani (11 lezioni da 2 ore ciascuna).
2015	Sapienza	<b>Docente</b> del corso di Metodologie di Programmazione.
2015	Sapienza	<b>Docente</b> del corso di Natural Language Processing (in inglese).
2015	Sapienza	<b>Docente</b> di un lezione introduttiva all'informatica, LUISS Summer School.
2015	EUROLAN School	<b>Docente invitato</b> presso la scuola estiva 12th EUROLAN Summer School, Sibiu, Romania (corso: 3 ore).
2014	Sapienza	<b>Docente</b> del corso di Metodologie di Programmazione.
2014	Sapienza	<b>Docente</b> del corso di Natural Language Processing (in inglese).
2014	Sapienza	<b>Docente</b> di un lezione introduttiva all'informatica, LUISS Summer School.
2013	Sapienza	<b>Docente</b> del corso di Metodologie di Programmazione.
2013	Sapienza	<b>Docente</b> del corso di Elaborazione del Linguaggio Naturale (insegnato in inglese).
2013	Università di Bari	<b>Docente invitato</b> di un tutorial di 3 ore sulla semantica computazionale tenuto nell'ambito dei Laboratori dal Basso.
2012	Sapienza	<b>Docente</b> del corso di Metodologie di Programmazione.
2012	Sapienza	<b>Docente</b> del corso di Elaborazione del Linguaggio Naturale (insegnato in inglese).
2011	Univ. of Ljubljana	<b>Docente ESSLLI</b> (European Summer School on Language, Logic and Information), scuola estiva di riferimento per NLP e logica.
2010	Univ. of Copenhagen	<b>Docente ESSLLI</b> (European Summer School on Language, Logic and Information), scuola estiva di riferimento per NLP e logica.
2010	Sapienza	<b>Docente</b> del corso di Apprendimento Automatico (terzo anno, laurea triennale in informatica).
2009	Sapienza	<b>Docente</b> del corso di Apprendimento Automatico.
2009	Borovets, Bulgaria	<b>Docente invitato</b> 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	Sapienza	<b>Docente</b> del corso di Apprendimento Automatico.
2008	U. Basque Country	<b>Docente invitato</b> di una lezione introduttiva di 3 ore sulla Word Sense Disambiguation.
2007	Sapienza	<b>Docente</b> del corso di Laboratorio di Programmazione (primo anno, laurea triennale in informatica).
2007	Sapienza	<b>Esercitatore</b> del corso di Architetture degli Elaboratori (primo anno, laurea triennale in informatica).
2007	Sapienza	<b>Esercitatore</b> del corso di Programmazione II (primo anno, informatica).
2006	Sapienza	<b>Esercitatore</b> del corso di Architetture degli Elaboratori.
2006	Sapienza	<b>Esercitatore</b> del corso di Programmazione II.
2005	Sapienza	<b>Esercitatore</b> del corso di Architetture degli Elaboratori.
2004	Sapienza	<b>Esercitatore</b> del corso di Architetture degli Elaboratori.
2004	Sapienza	<b>Esercitatore</b> del corso di Programmazione II.
2003	Sapienza	<b>Esercitatore</b> del corso di Architetture degli Elaboratori.

Inoltre ha supervisionato **oltre 70 studenti di laurea triennale e di laurea specialistica/magistrale** seguiti su tematiche di elaborazione del linguaggio naturale, intelligenza artificiale, programmazione di videogiochi con scopo e altre tematiche (si veda la seconda parte del CV per i dettagli).

## Part V – Society memberships, Awards and Honors

V(A) – Awards and Prizes

Year	Title
2018	<b>IJCAI 2018 Early Career Spotlight.</b>
2017	Vincitore del <b>Artificial Intelligence Journal Prominent Paper Award 2017.</b>
2015	<b>Vincitore del META prize 2015</b> quale creatore di BabelNet, "awarded on an annual basis to outstanding products or services supporting the European Multilingual Information Society". META (Multilingual Europe Technology Alliance) è un'associazione che conta 817 membri, tra università e aziende. <a href="http://www.meta-net.eu/meta-prize">http://www.meta-net.eu/meta-prize</a>
2013	Primo italiano vincitore di un <b>Google Focused Research Award</b> (con Hans Uszkoreit e Feiyu Xu, 2013-2016) nell'area del Natural Language Understanding dal titolo "Language Understanding cum Knowledge Yield (LUcKY)".
2014	Vincitore di un <b>progetto Ateneo "Award" 2014.</b>
2014	<b>Best poster award at SEMANTiCS 2014</b> per il paper "Three birds (in the LLOD cloud) in one stone: BabelNet, Babelfy and the Wikipedia Bitaxonomy", scritto con T. Flati.
2013	<b>Best paper award nominee at ACL 2013</b> per il paper "Align, Disambiguate and Walk", scritto con M. T. Pilehvar e David Jurgens.
2013	Vincitore del <b>Premio Biennale AI*IA "Marco Somalvico" in Intelligenza Artificiale</b> per giovani ricercatori (under 35) che abbiano svolto la propria attività di ricerca in Italia e che abbiano apportato un contributo personale significativo all'Intelligenza Artificiale.
2012	Vincitore di uno dei 32 <b>assegni di ricerca Sapienza a sostegno di ricerca per docenti di ruolo "under 40"</b> .
2010	<b>Primo ricercatore italiano a vincere un ERC Starting Grant in informatica</b> (1.3M euro).
2010	<b>Premio internazionale "What's up - Giovani Talenti" per la ricerca</b> , ricevuto in Campidoglio nell'ambito del Premio Minerva 2010.
2007	Vincitore del <b>Premio Nazionale AI*IA "Marco Cadoli" per la Miglior Tesi di Dottorato in Intelligenza Artificiale.</b>
2008	<b>Vincitore di uno short visit grant</b> , Royal Society of Edinburgh.
2006	<b>Vincitore di un mobility grant</b> , INTEROP Network of Excellence.

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

Year	Title
2018-oggi	<b>Member of the steering committee</b> of the CINI National Laboratory on Artificial Intelligence and Intelligent Systems.
2013-oggi	<b>Associate Editor</b> di Artificial Intelligence (Elsevier), rivista di riferimento nell'IA.
2014-oggi	<b>Standing Elite Reviewer</b> di <i>Transactions of the Association for Computational Linguistics</i> (TACL), rivista di riferimento per l'NLP per "conference-length papers".
2018	<b>Area Chair</b> di IJCAI-ECAI 2018 (International Joint Conference on Artificial Intelligence), conferenza di riferimento di AI.
2018	<b>Senior Program Committee member</b> di AAAI 2018 (American Association of Artificial Intelligence), conferenza di riferimento di AI.
2017	<b>Senior Program Committee member</b> di AAAI 2017 (American Association of Artificial Intelligence), conferenza di riferimento di AI.
2016	<b>Special track chair</b> per il trattamento automatico del multilinguismo di ESWC 2017 (Extended Semantic Web Conference), conferenza sul Web Semantico.
2016	<b>Area chair</b> di CLIC 2016 (Italian Conference on Computational Linguistics).
2016	<b>Area chair</b> di COLING 2016 (26th International Conference on Computational Linguistics).
2016	<b>Area chair</b> di *SEM 2016, conferenza di NLP nell'area di Lexical resources, linked data, ontologies.
2015-2016	<b>Membro dell'Advisory Board di EACL</b> (European Chapter of the Association for Computational Linguistics).
2010-2018	<b>Membro dell'Editorial Board</b> di Natural Language Engineering (Cambridge University Press).
2015	<b>Membro del comitato editoriale dello special issue</b> su Knowledge graphs, Journal of Web Semantics (Elsevier).
2015	<b>Guest editor</b> di Web Semantics (Elsevier), rivista di riferimento per il Web Semantico.
2014-2015	<b>Membro del comitato direttivo</b> dell'Associazione Italiana per l'Intelligenza Artificiale.
2014-oggi	<b>Membro dell'Advisory Board</b> dello Special Interest Group on the Lexicon (SIGLEX).
2014	<b>Program chair</b> di *SEM 2014, conferenza di NLP e computational lexical semantics.
2013	<b>Area chair</b> di *SEM 2013, conferenza di NLP e computational lexical semantics.
2013	<b>Guest editor</b> di Artificial Intelligence (Elsevier).
2013	<b>Publication chair</b> di ACL 2013, conferenza di riferimento per l'NLP.
2013	<b>Lab chair</b> di CLEF 2013 (Cross Language Evaluation Forum).
2012	<b>Track chair</b> di WWW 2012, conferenza di riferimento per il Web.
2012-oggi	<b>Membro dell'Editorial Board</b> della serie di libri Text, Speech and Language Technology (Springer).
2011-2013	<b>Membro dell'Editorial Board</b> (2011-2013) di Computational Linguistics (MIT Press), rivista di riferimento per l'NLP.
2011	<b>Senior Program Committee member</b> di IJCAI (International Joint Conference on Artificial Intelligence), conferenza di riferimento di Intelligenza Artificiale.
2010	<b>Area chair</b> di ACL 2010, conferenza di riferimento per l'NLP.
2010-oggi	<b>Membro dell'Advisory Board</b> della collana di NLP, John Benjamins.
2009	<b>Senior Program Committee member</b> di IJCAI (International Joint Conference on Artificial Intelligence), conferenza di riferimento di Intelligenza Artificiale.
2007-2010	<b>Membro dell'Executive Board</b> dello Special Interest Group on the Lexicon (SIGLEX).
2007-oggi	<b>Session chair</b> per conferenze e workshop, tra cui: ACL 2014, WWW 2012, EACL 2009, RANLP 2009, Semeval-2007.
2006-oggi	Membro dei <b>comitati di programma</b> delle maggiori conferenze di elaborazione del linguaggio naturale, tra cui: ACL (2006-2016), NAACL (2010-2016), EACL (2009-17), COLING (2006-2016), EMNLP (2006-16), RANLP (2007-13), FLAIRS (2006-2008, 2011) e di intelligenza artificiale IJCAI (2009-15) e AAAI (2011-12, 2015-17).
2005-oggi	Revisore per numerose riviste internazionali: ACM Surveys, ACM TOIS, ACM Transactions SLP, Artificial Intelligence, Computational Linguistics, Computer Speech and Language, IEEE TKDE, IEEE Intelligent Systems, Data and Knowledge Engineering, Journal of Data Semantics, IEEE Computer, Information Systems, VLDB Journal, ACM Transactions on Speech and Language Processing, ACM Transactions on Knowledge Discovery from Data, IEEE Transactions on ASLP TACL, JAIR, ACM TWeb.

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

Numerosi **talk invitati in sessione plenaria** alle seguenti conferenze, workshop, scuole estive ed eventi di rilievo scientifico (maggiori dettagli nella seconda parte del CV):

Year	Type	Conference
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**: CNRS Orsay/Paris Sud, 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

Articoli, allegati in fondo al CV, che hanno coperto i risultati ottenuti in [11, 18, 100] e complessivamente i risultati scientifici del progetto ERC:

- 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 oltre 3.5 milioni di euro (personal share)**:

Year	Title	Program	Grant value
2018-2022	European Lexicographic Infrastructure (ELEXIS), contract number 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 number 726487 (PI)	<b>ERC Consolidator Grant</b> in “Computer science and informatics”	1,500,000 euro ca.
2015-2017	SINAPSI (PI per l’NLP)	Progetto congiunto CINI-Sapienza	300,000 euro (personal share: 100,000 euro)
2013-2016	Language Understanding cum Knowledge Yield (LUcKY) (Co-PI con Hans Uszkoreit e Feiyu Xu, DFKI Berlin)	<b>Google Focused Research Award</b> 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)	<b>ERC Starting Grant</b> in “Computer science and informatics”	1,300,000 euro ca.
2016	Gamification for Supporting Cross-Lingual Learning in Higher Education (PI)	Progetto di Ateneo 2015	10,000 euro
2015	Women and Social Leadership (WeSocial) (PI)	Progetto di Ateneo ”Awards” 2014	36,925 euro
2013	Combining the Structure and Content of Social Networks for Acquiring Novel, Up-to-date Knowledge (PI)	Progetto di Ateneo 2012	13,500 euro
2012	Mining the Web to Acquire Multicultural and Multilingual Semantic Networks (PI)	Progetto di Ateneo 2011	28,600 euro
2011	Acquisizione Automatica di Glossari e Ontologie Multilingue e Multimediali (PI)	Progetto di Ateneo 2010	35,000 euro
2010	Analisi di reti sociali basata sul contesto (PI)	Progetto Università 2009	41,600 euro

### VI(B) – Technological Transfer

Docente proponente e co-fondatore (al 75%) della **startup Sapienza Babelscape srl**, grazie alla quale ha dimostrato **forti capacità di trasferimento tecnologico della ricerca scientifica svolta**. L’azienda attualmente ha diversi contratti all’attivo e negoziazioni in corso con grandi aziende ed enti pubblici.

## Part VII – Research Activities

Una descrizione dettagliata delle attività è riportata nella seconda parte del curriculum.

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'ambiguità lessicale, un problema che è 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 necessità di annotare manualmente grandi quantità 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 può esprimere con algoritmi basati su grafi e la proposta di un nuovo paradigma di disambiguazione basato sulla sostituzione lessicale, ora molto popolare nella comunità scientifica.
Taxonomy and Ontology Learning	Un secondo obiettivo fondamentale della mia ricerca è 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, così come un algoritmo per la tassonomizzazione completa di una risorsa enciclopedica come Wikipedia (la Wikipedia Bitaxonomy).
Knowledge Acquisition	Più in generale, ho affrontato il tema dell'acquisizione della conoscenza su larga scala, mediante approcci innovativi che hanno permesso la creazione della più 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 è 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 entità.
Multilinguality	Negli ultimi anni, anche grazie alla creazione di BabelNet, si è 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 peculiarità di incrociare le informazioni disponibili nelle diverse lingue, apprendendo automaticamente modelli che, da una parte, tengono conto delle complessità 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 è attualmente comparabile con alcun risultato in letteratura: è 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.
Semantic Web	Un obiettivo primario della mia ricerca è quello di rendere semantico il Web, abilitando così l'indicizzazione semantica, il trattamento e la ricerca di contenuti online per concetti ed entità. 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

Autore di oltre 130 pubblicazioni tra cui:

Product type	Number	Database	Start	End
Journal papers [international]	28	Google Scholar	2002	2016
Conference papers [international]	77	Google Scholar	2002	2016
Workshop papers [international]	22	Google Scholar	2003	2016
Book chapters [scientific]	5	Google Scholar	2004	2016

- **44 paper su riviste e conferenze di classe A\*** secondo la classificazione australiana CORE: 14 paper su riviste del massimo livello scientifico (1 ACM Computing Surveys, 2 IEEE TPAMI, 5 Computational Linguistics, 5 Artificial Intelligence, 1 Information Systems) e 30 paper a conferenze del massimo livello scientifico (19 ACL, 7 IJCAI, 2 WWW, 2 AAI).
- **20 paper su riviste e conferenze di classe A** secondo la classificazione CORE: 4 paper su riviste di classe A (1 Natural Language Engineering, 1 JAIR, 2 IEEE Intelligent Systems) e 16 paper a conferenza (4 EACL, 2 NAACL, 4 EMNLP, 1 COLING, 2 ISWC, 2 CIKM, 1 ECAI).

Total Citations (**)	10956
Hirsch (H) index (**)	49



- (\*) Calcolato utilizzando gli Impact Factor ISI Thomson delle riviste nell'anno di pubblicazione, tranne per il 2016 per il quale si è utilizzato l'IF del 2015. (\*\*) Google Scholar al 02/08/2018.

## VIII(B) – Other international achievements

Ulteriori dettagli vengono forniti nella seconda parte del CV:

- **Creazione e gestione di un gruppo di ricerca**, con 3 post-doc e **supervisione di 10 dottorandi** più numerosi visitatori, tutti con pubblicazioni nelle migliori conferenze e con risultati oltre lo stato dell'arte. Gli studenti già dottorati lavorano ora a **Microsoft Bing, University of Cambridge** e **University of Mannheim**:
  1. Federico Scozzafava: *semantic parsing e disambiguazione basati sulla conoscenza* (33esimo ciclo);
  2. Valentina Pyatkin: *semantic parsing neurale e basato sulla conoscenza* (32esimo ciclo);
  3. Tommaso Pasini: *multilingual Word Sense Disambiguation on a large scale* (31esimo ciclo);
  4. Ignacio Iacobacci: *reti neurali per l'elaborazione del linguaggio naturale* (30esimo ciclo);
  5. Alessandro Raganato: *una pipeline completa e multilingue di NLP oltre lo stato dell'arte* (30esimo ciclo), ora postdoc presso l'Università di Helsinki;
  6. Claudio Delli Bovi: *integrazione di sintassi e semantica computazionale per l'estrazione di informazioni dal Web su larga scala* (30esimo ciclo), ora Applied Scientist in Natural Language Understanding at Amazon;
  7. Daniele Vannella: *acquisizione e arricchimento automatico di grandi basi di conoscenza* (28esimo ciclo);
  8. Tiziano Flati: *Learning of a Multilingual Bitaxonomy of Wikipedia and its Application to Semantic Predicates* (27esimo ciclo);
  9. Andrea Moro: *Natural Language Understanding: from Raw Text to Disambiguated Concepts, Entities and Relations* (27esimo ciclo), ora software engineer presso Microsoft Bing, Londra;
  10. Mohammad Taher Pilehvar: *Semantic Signatures: Rich and Flexible Representations of Lexical Meanings* (27esimo ciclo), ora research associate per 3 anni presso l'Università di Cambridge;
  11. Stefano Faralli: *Apprendimento automatico di ontologie da zero* (27esimo ciclo), ora ricercatore presso Sapienza-Unitelma (precedentemente postdoc all'Università di Mannheim);
- **Membro esterno** di numerose commissioni di dottorato in diverse università in Europa e Australia: 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, Università di Trento, La Trobe University.
- **Valutatore invitato di progetti** per numerosi schemi di ricerca: ERC Starting Grant, ERC Consolidator Grant, ANR francese, progetti croati, portoghesi, belgi, polacchi, israeliani, Aix\*Marseille, Università di Verona, progetti italo-tedeschi.
- **Co-organizzatore del workshop** Semantics-Driven Statistical Machine Translation Theory and Practice (S2MT), collocato con ACL 2015.
- **Co-organizzatore del workshop EMNLP 2014** su “TEXAS: Taxonomy Extraction with Applications in Semantics”. 2014.
- **Co-organizzatore del workshop AAI 2010** su “Collaboratively-built knowledge sources and Artificial Intelligence”. 2010.

## Publications

Ha pubblicato con 85 diversi coautori, italiani e stranieri:

*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, *G. Rizzo* – Eurecom, France, *F. Ronzano* – U. Pompeu Fabra, Spain, *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, *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.

## Tesi di Dottorato

1. **R. Navigli**. Structural Semantic Interconnections: a Knowledge-Based WSD Algorithm, its Evaluation and Applications. *PhD Thesis*, Università di Roma “La Sapienza”, Roma, Italy, 2007. *Vincitore del premio AI\*IA per NeoDottori di Ricerca “Marco Cadoli” 2007 come miglior tesi italiana di dottorato in Intelligenza Artificiale.*

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