

# Curriculum Vitae - Paul Buitelaar

## Summary

### Personal Details

Full Name: Peter Paul Buitelaar  
Date of Birth: September 23<sup>rd</sup>, 1963  
Place of Birth: Rotterdam, the Netherlands  
Nationality: Dutch  
Languages: Dutch (native), English (fluent), German (fluent), Italian (beginner)  
Education: PhD Computer Science; MA Computational Linguistics

### Current Position

I am **Senior Lecturer** of Informatics at the National University of Ireland, Galway (NUI Galway), and **Vice-Director of the Insight Centre for Data Analytics at NUI Galway**. I also lead the Unit for Natural Language Processing there: <http://nuig.insight-centre.org/unlp/>

### Research Interests

Natural Language Processing and semantics, specifically with applications in semantic-based approaches to text mining, data analytics and information access and search, in particular by use of Semantic Web and Linked Data technologies

*Specific research interests:* ontology-based information extraction, ontology learning, taxonomy extraction, term extraction, term translation, ontology translation, semantic similarity, entity linking, relation extraction, linguistic linked data, linked data profiling, emotion and sentiment analysis

I have supervised and examined a large number of postgraduate theses in these research topics, either as thesis supervisor or as external examiner (full details below).

### Publications and Scientific Impact

- Google Scholar profile: <http://scholar.google.com/citations?user=aDJBCh4AAAAJ&hl=en>
- DBLP profile: <http://www.informatik.uni-trier.de/~ley/pers/hd/b/Buitelaar:Paul>

|   |                              |                         |                                       |   |
|---|------------------------------|-------------------------|---------------------------------------|---|
| Publications: 181 Citations: 4585 h-index: 31 (Source: Google Scholar, February 2017) |                              |                         |                                       |   |
| Books:<br>4   | Conference<br>Proceedings: 3 | Journal Articles:<br>17 | Chapters and Articles<br>in Books: 17 | Refereed Conference and<br>Workshop Papers: 140 |

My research and resulting publications initiated and/or contributed significantly to the scientific and technical development of several Semantic Web and Linked Data research areas, in particular: ontology-based information extraction, ontology learning, ontology search, Linguistic Linked Data, Multilingual Linked Data, Multilingual Semantic Web, Linked Data in emotion and sentiment analysis. I am ranked within the top 5% of researchers in NLP, i.e., rank 212 out of all research profiles on Google Scholar that mention Natural Language Processing as expertise topic (4589).

### Industry Impact, Patents and Standardization

Industry application of my work has been in a wide variety of areas, including financial services, business intelligence, news and media, tourism, e-Commerce, eHealth and health care. As shown in

the table below on research funding obtained by me, I have initiated and lead several industry research projects, either funded completely by individual companies (HP, Adoreboard) or co-funded by Enterprise Ireland (Irish Times) or Science Foundation Ireland (Kennys.ie). Additionally, I lead research initiatives that had significant interaction with individual companies in the context of the Science Foundation Ireland funded Lion2 project (Storm Technology, Galway) and of EU FP7 and H2020 projects, in particular the Monnet project on Multilingual Ontologies for Networked Knowledge (SAP, Germany; BeInformed, the Netherlands) and the MixedEmotions project on Emotion Analysis for Big Data Analytics (Expert Systems, Italy; Paradigma, Spain). We developed a number of Invention Disclosure Forms in the context of these and other projects and provided a license for our knowledge extraction system Saffron (Storm Technology; Fujitsu, Ireland) as well as a further license for our approach to semantic similarity analysis for entity linking (Adoreboard). In the context of the Enterprise Ireland funded technology centre on Governance, Risk and Compliance in the financial services industry (GRCTC) we developed an approach for the automatic classification of legal text into categories of interest to lawyers, contributing towards significantly speeding up the process of keeping track of and implementing changing laws on regulation and compliance.

I hold the following patent (with Siemens AG, Germany): *A method and an apparatus for processing semantic data resources* - European patent registration, File number: 08010815.2, 2008

My research has also contributed significantly to standardization efforts, in particular on the representation and exploitation of linguistic information in ontologies and Linked Data, i.e. as co-chair of the W3C Ontology-Lexica Community Group (<http://www.w3.org/community/ontolex/>), and as initiator and co-founder of the W3C Linked Data Models for Emotion and Sentiment Analysis Community Group (<http://www.w3.org/community/sentiment/>).

### **Research Funding Acquisition**

I put a strong emphasis on the acquisition of research funding, in order to sustain the research efforts of my team. A specific emphasis is on EU funding, besides national and industry funding.

Since joining DERI/Insight in 2009 I have acquired funding for a total of more than M€4 across EU funding (~M€1.6), national funding (~M€1.6), and industry funding (~M€0.8):

# Education, Appointments, Projects

## *University Education*

1992-1998: **PhD in Computer Science**, Dept. of Computer Science, Brandeis University, Waltham, USA

*CoreLex: Systematic Polysemy and Underspecification*

1986-1990: **MA (equivalent) in Computational Linguistics**, Dept. of Linguistics, Universiteit Utrecht, the Netherlands

*Disambiguation with Lexical Knowledge in a Natural Language Interface to Databases*

1983-1986: Dept. of German Language and Literature, Universiteit Leiden, the Netherlands

## *Professional Appointments*

- Since May 2015: **Senior Lecturer of Informatics**, National University of Ireland, Galway (NUIG), and **Vice-Director** of the Insight Centre for Data Analytics at NUIG. In this position I am involved in PhD supervision, teaching in the MSc on Data Analytics, research management in several EU, national and industry projects, leading the Unit for Natural Language Processing, contributing as Vice-Director to the day-to-day leadership and strategic planning of the institute and representing Insight on university committees such as the Digital Culture Initiatives Steering Group.
- Since March 2013: **Professor Extraordinarius**, School of Interdisciplinary Research and Graduate Studies of the University of South-Africa (UNISA). In this position I am involved in PhD supervision at UNISA.
- January 2009 - April 2015: **Senior Research Fellow**, Digital Enterprise Research Institute (DERI), later incorporated in the Insight Centre for Data Analytics at NUIG. In this position I was a research manager in many international (EU) and national (SFI, EI) projects and founder and unit leader of the Unit for Natural Language Processing.
- March 1998 - December 2008: **Senior Researcher**, Language Technology Lab of the German Research Center for Artificial Intelligence (DFKI), Saarbrücken, Germany. In this position I was a researcher and research manager in many international (EU) and national projects as well as co-head of the Competence Centre Semantic Web.
- August 1992 – February 1998: **PhD candidate**, Department of Computer Science, Brandeis University, Waltham, USA.
- December 1990 - August 1992: **Researcher**, Department of Computer Science, Vrije Universiteit, Amsterdam, the Netherlands.

## *Involvement in Funded Research Projects*

- Since July 2013 (Co-PI since 2015) of the Science Foundation Ireland funded [Insight Centre for Data Analytics](#), leading the Linked Data Research Stream with work packages on Linked Data and Text Mining, Linked Data Infrastructure and Linked Data in eHealth
- Since April 2015: PI and consortium coordinator of the EU H2020 project [MixedEmotions: Social Semantic Emotion Analysis for Innovative Multilingual Big Data Analytics Markets](#), leading an international and interdisciplinary consortium of four academic and five commercial organizations on the design, implementation and use of a Linked Data based platform for cross-lingual, cross-media emotion and sentiment analysis

- June 2014 – October 2015: PI on Enterprise Ireland funded Innovation Partnership with [Irish Times](#)
- November – December 2014: PI on industry project with HP, Galway
- April – June 2014: PI on industry project with [Adoreboard](#)
- April – November 2014: PI on Irish Research Council 'New Foundations' grant for setting up a network on [Natural Language Processing for Digital Humanities in Ireland](#)
- Since March 2014: Management Committee member of the EU COST action [iV&L Net: Combining Computer Vision and Language Processing For Advanced Search, Retrieval, Annotation and Description of Visual Data](#)
- Since February 2014: co-PI and Work Package lead on text mining for financial ontology development and exploitation of the Enterprise Ireland funded [GRCTC: Governance, Risk and Compliance Technology Centre](#)
- January 2014 – December 2014: PI of the Science Foundation Ireland funded project CARS: *Content Analysis for Recommender Systems (Multi-source Personalization for E-commerce Using Customer Reviews and Linked Open Data)*
- November 2013 – December 2015: PI on the EU FP7 Coordination and Support Action LIDER: *Linked Data as an enabler of cross-media and multilingual content analytics for enterprises across Europe*
- March 2013 – February 2016: Management Committee member of the EU COST action [PARSEME: PARSing and Multi-word Expressions](#)
- September 2012 – August 2014: PI and Work Package lead on a semantically interoperable model for sentiment language resources in the EU FP7 project EUROSENTIMENT: *Language Resource Pool for Sentiment Analysis in European Languages*
- April 2012 – October 2013: PI and Work Package lead on text mining for the evaluation of research impact in the EU FP7 Network of Excellence PROMISE: *Participative Research labOratory for Multimedia and Multilingual Information Systems*
- Jan 2011 – March 2011: PI of the Enterprise Ireland funded feasibility study for the commercialization of [Saffron](#), our system for Knowledge Extraction from Text
- November 2010 – October 2014: Management Committee member and Working Group leader on language resources for multilingual information access in the EU COST action MUMIA: *Multilingual and Multifaceted Interactive Information Access*
- July 2010 – June 2013: co-PI and Work Package lead on Natural Language Processing for Networked Knowledge in the EU Marie Curie funded research network Net2: *A Network for Networked Knowledge*
- March 2010 – February 2013: PI and consortium coordinator of the EU FP7 project Monnet: *Multilingual Ontologies for Networked Knowledge*, leading an international and interdisciplinary consortium of four academic and three commercial organizations on research in ontology-based cross-lingual information access through ontology lexicalization, translation and population
- January 2009 – June 2013: co-PI of the Science Foundation Ireland funded project Lion-2 and Work Package lead on Natural Language Processing for the Semantic Web
- August 2007 - December 2008: German national project 'Theseus-MEDICO: Towards Scalable Semantic Image Search in Medicine' where I led research across several academic and commercial consortium partners on ontology-based text mining for medical image annotation and search (see paper in Journal of Biomedical Informatics 44(1) and patent below)
- Jan. 2006 – Dec. 2008: EU project 'K-Space: Knowledge-based Multimedia Analysis' where I led research across several academic consortium partners on a hybrid approach to video annotation in the sports domain using NLP, machine learning and ontologies
- April 2004 - October 2007: German national project 'SmartWeb: Mobile Access to the Semantic Web' where I led research across three academic and commercial consortium partners on ontology-based information extraction in the sports domain using a hybrid approach, combining ontologies, shallow NLP and statistical deep parsing (see IJHCS paper)
- January 2004 - December 2005: co-PI and project manager of the German national project VieWs (Connecting Information and Knowledge in saarland.de), funded by the Saarland

Ministry of Economic Affairs, where I led research on web information extraction and automatic hyperlinking

- Jan. 2004 - Dec. 2004: senior researcher on the EU project ‘DIRECT-INFO: Media Monitoring and Multimodal Analysis’ where I contributed to research on ontology-based sports video analysis for sponsorship tracking
- July 2003 - May 2004: ‘MEMPHIS: Multilingual Content for Flexible Format Internet Services’ where I led research on ontology learning (see OntoLT and associated publications)
- January 2002 - May 2004: originator and coordinator of the ‘Special Interest Group on Language Technology in Ontology Development and Use’ of the EU project OntoWeb where I led an interdisciplinary consortium of several academic and commercial partners
- July 2000 - June 2003: coordinator of the EU/NSF project [MuchMore: Multilingual Concept Hierarchies for Medical Information Organization and Retrieval](#) where I led a consortium of four European partners (academic and commercial) and two USA universities (Stanford, CMU) on research in cross-lingual semantic-driven information retrieval in the medical domain
- March 1998 – June 2000: senior researcher on the EU project ‘MIETTA: Multilingual Information Extraction for Tourism and Travel Assistance’, contributing to semantic-driven query expansion
- March 1998 – June 2000: senior researcher on the EU project ‘OLIVE: Speech Based Video Retrieval’, contributing to semantic-driven query expansion
- 1995 – 1997: researcher in the NSF funded project ‘Core Lexical Engine’
- 1991 – 1992: researcher in project ‘LIKE: Linguistic Instruments in Knowledge Engineering’

# Evidence of External Reputation

## ***Keynotes at International Conferences and Workshops***

- *Knowledge Extraction with Saffron: A Framework and Research Program* - Keynote talk at the 11<sup>th</sup> Terminology and Artificial Intelligence conference (TIA 2015), November 2015, Spain
- *On Man-Machine Interoperability: Integration of Ontologies and Lexicons* - Keynote talk at the 2<sup>nd</sup> International Conference on Global Interoperability for Language Resources, January 2010, Hong Kong
- *Ontology Learning: Where are we? And where are we going?* - Keynote talk at ESOE: International Workshop on Emergent Semantics and Ontology Evolution, co-located with the 6<sup>th</sup> International Semantic Web Conference, November 2007, Busan, South-Korea
- *Ontologies in Semantic Annotation: Selection, Population, Lexicalisation* - Keynote talk at SAAKM: Semantic Authoring, Annotation and Knowledge Markup Workshop, co-located with the 4th International Conference on Knowledge Capture (K-Cap), October 2007, Whistler, British Columbia, Canada
- *Text Mining Support in Semantic Metadata Extraction* - Keynote talk at KW4ED: Workshop on Knowledge Management and Semantic Web for Engineering Design, co-located with the 4th International Conference on Knowledge Capture (K-Cap), October 2007, Whistler, British Columbia, Canada
- *On the Role of Natural Language Processing in a Data-Driven Approach to the Ontology Life-Cycle* - Keynote talk at TALN 2007, the conference of the French association on Natural Language Processing (ATALA), June 2007, Toulouse, France
- *Harnessing the Semantic Web for Natural Language Processing* - Keynote talk at the 7<sup>th</sup> International Workshop on Computational Semantics (IWCS-7), January 2007, Tilburg, the Netherlands
- *Ontology Learning and Population in SmartWeb* - Keynote talk at the 3<sup>rd</sup> Philips Symposium on Intelligent Algorithms (SOIA), December 2006, Eindhoven, the Netherlands
- *Ontology Learning for Semantic Metadata Extraction* - Keynote talk at the AIMS workshop on Natural Language Processing for Metadata Extraction (NLP4ME), September 2006, Varna, Bulgaria
- *Semantic Annotation in MuchMore* - Keynote talk at CLIF (Computational Linguistics in Flanders), April 2003, Brussels, Belgium
- *Lexical Semantics in the Age of the Semantic Web* - Keynote talk at the Conference of the Slovenian Society for Language Technologies, October 2002, Ljubljana, Slovenia

## ***Invited Talks***

- Ontology Learning Overview – Ontology Summit 2017: AI, Learning, Reasoning, and Ontologies, March 2017, Ontolog Community (Webinar)
- Applications of Knowledge Extraction from Text with Saffron – DFKI GmbH (German Research Institute for Artificial Intelligence), December 2015, Saarbrücken, Germany
- Text Mining with and for Linked Data – Workshop on Linked Data Applications for Research, School of Library and Information Science, Humboldt University Berlin, July 2014, Berlin, Germany
- Computational Linguistics through the Years; with an introduction to ‘Saffron’ – Computational Linguistics Alumni at Koblenz University, July 2014, Koblenz, Germany
- Language to Knowledge: Towards an Integrated Framework – Xerox Research Centre Europe (XRCE), December 2011, Grenoble, France

- Ontology Lexicalisation – Institute for Applied Linguistics (IULA), Universitat Pompeu Fabra, January 2011, Barcelona, Spain
- Ontology Lexicalisation – Copenhagen Symposium on Approaches to the Lexicon, December 2010, Copenhagen, Denmark
- Finding, Linking and Organizing Resources with Linked Data & Natural Language Processing - Fondazione Bruno Kessler, November 2010, Trento, Italy
- CoreLex: Systematic Polysemy, Underspecification and Coercion - Dipartimento Ingegneria e Scienza dell'Informazione, University of Trento, November 2010, Trento, Italy
- Finding, Linking and Organizing Resources with Linked Data & Natural Language Processing - CATCH project meeting, October 2010, Rotterdam, the Netherlands
- Ontologies and the Lexicon: Connecting World and Word Knowledge - School of Computer Science of the University of Manchester, March 2010, Manchester, UK
- Expertise Mining from Scientific Literature - Semantic Computing Group, Bielefeld University, December 2009, Bielefeld, Germany
- Ontologies and the Lexicon: Connecting World and Word Knowledge - Graduate Program Empirical Language Processing (Empirische Sprachverarbeitung), Ludwig-Maximilians-Universität, December 2009, Munich, Germany
- Project Acquisition at DERI: The Monnet FP7 Project Proposal - UK Info Day for ICT Call 6, Enterprise Europe Scotland & Enterprise Ireland, November 2009, Edinburgh, UK
- Ontologies and the Lexicon: Connecting World and Word Knowledge - FlareNet project meeting, September 2009, Pisa, Italy
- Ontologies: Creating Stepping Stones in a Sea of Data - Theseus Symposium ST3, ST5 Joint Session on Applications and Benefits of Ontologies, June 2009, Berlin, Germany
- Invited expert at the Semantic Data Integration Workshop of the LifeWatch project, May 2009, Amsterdam, the Netherlands
- Ontology-based Information Extraction with SOBA - Department of Linguistics and Philology, Uppsala University, February 2009, Uppsala, Sweden
- Ontology-based Information Extraction with SOBA - Workshop of the CATCH project at Naturalis, November 2008, Leiden, the Netherlands
- Towards Query Pattern Mining in the Medical Domain - Center of Content and Knowledge Engineering at the Dept. of Information and Computing Sciences, Utrecht University, May 2008, Utrecht, the Netherlands
- Ontologies & Text Mining (for Life Sciences) - Seminar on Text Mining and Ontologies for Life Sciences, March 2008, Dagstuhl, Germany
- Ontology learning from Text - Backgrounds, State-of-the-Art and Challenges - Computational Linguistics Dept., University of Heidelberg, December 2007, Heidelberg, Germany
- Towards Multilingual/Multimedia Ontologies and Cross-Media Analysis - Workshop of the X-Media project, July 2007, Karlsruhe, Germany
- Language Technology in the Ontology Life-Cycle - Workshop of the LT4eL project, June 2007, Prague, Czech Republic
- Tutorial on Ontology Learning - SIKS-ICS (Dutch Research School for Information and Knowledge systems) Seminar on the Semantic Web, April 2007, Utrecht, the Netherlands
- Language Technology in the Ontology Lifecycle - Nancy NLP Seminar at LORIA, December 2006, Nancy, France
- Language Technology in the Ontology Lifecycle - Computer Science Dept., Brandeis University, November 2006, Waltham MA, USA
- Ontology Learning: Multilingual and Multimedia Aspects - EKAW Workshop on Ontology Evolution and Multimedia Information Extraction (BOEMIE), October 2006, Podebrady, Czech Republic
- Tutorial on Ontology Learning - First International Conference on Knowledge Science, Engineering and Management (KSEM'06), August 2006, Guilin, China -- *canceled*
- Ontology-driven Predicate Argument Structure Analysis for Event Annotation (with Anette Frank) - Workshop on Multilingual Semantic Annotation, June 2006, Saarbruecken, Germany
- Ontology Learning from Text - European Bioinformatics Institute, May 2006, Hinxton, UK

- Language Technology in the Ontology Lifecycle - Knowledge Media Institute, Open University, January 2006, Milton Keynes, UK
- Human Language Technology for the Semantic Web - Seminars in Computing, National University of Ireland, Nov. 2005, Galway, Ireland
- Language Technology in Knowledge Markup and Ontology Evolution - Seminar on Artificial Intelligence, June 2005, Luxembourg
- Corpus-based Ontology Extension - Symposium on corpus applications in literary studies, linguistics and information technology, February 2005, Darmstadt, Germany
- Position Paper on Machine Learning for the Semantic Web - Seminar on Machine Learning for the Semantic Web, February 2005, Dagstuhl, Germany
- Towards the Integration of Ontologies and Semantic Lexicons - 2<sup>nd</sup> Workshop of the MEANING project, February 2005, Trento, Italy
- Language Technology for the Semantic Web - Talks in Computational Linguistics, Stockholm University, September 2004, Stockholm, Sweden
- Ontologies: Contributions from Language Technology - eJustice Dialogues, July 2004, Saarbruecken, Germany
- Connecting Human Language Technology and Ontology Engineering - CNTS Colloquia, Univ. of Antwerpen, June 2004, Antwerpen, Belgium
- OntoLT: Connecting Human Language Technology and Ontology Engineering - ILASH Half-day Workshop on Human Language Technologies for the Semantic Web, Univ. of Sheffield, March 2004, Sheffield, UK
- Ontology Extraction from Text with OntoLT - DaimlerChrysler Workshop on Ontology Learning and Question Answering Tools from/for Large Text Collections, December 2003, Ulm, Germany
- MuchMore: Multilingual Concept Hierarchies for Medical Information Organization and Retrieval - LangTech Conference, November 2003, Paris, France
- Semantic Corpus Annotation in MuchMore; Language Technology and the Semantic Web - Institut de Linguística Aplicada (IULA), Universitat Pompeu Fabra, February 2003, Barcelona, Spain
- Semantic Corpus Annotation in MuchMore; Language Technology and the Semantic Web - Institute for InfoComm Research, January 2003, Singapore
- Semantic Lexicons: Between Ontology and Terminology - ONTOLEX workshop, September 2000, Sozopol, Bulgaria
- CoreLex Revisited: Finding Systematic Patterns of Meaning - Department of Linguistics, University of Tuebingen, October 1999, Tuebingen, Germany
- Ambiguity in Semantic Annotation - Computer Science Institute, University of Leipzig, July 1999, Leipzig, Germany
- Concepts in Multilingual Information Retrieval - Kansai Advanced Research Center, February 1999, Osaka, Japan

## ***Member of International Panels***

- ‘EU Experts Consultation Workshop: Towards a Single Information Space in Europe for the Environment (SISE)’, February 2008, Brussels, Belgium
- ‘Semantic Web’, at the ONTOLEX Workshop, LREC, May 2004, Lisbon, Portugal
- ‘EU Experts Consultation Meeting on Semantic-based Knowledge Systems’, April 2004, Luxembourg
- ‘EU Expert Round Table on Knowledge Technologies and Digital Content: Requirements and Options for EU research and technology development’, December 2003, Luxembourg
- ‘Semantic Web’, at the NLPXML Workshop, COLING, September 2002, Taipei, Taiwan
- ‘Semantic Web: A New Challenge for Language Technology?’, at COLING, August 2002, Taipei, Taiwan

- ‘Standardizing and Linking WordNets’, at SENSEVAL2, ACL/EACL, July 2001, Toulouse, France
- ‘Wissen ueber Woerter’ (Knowledge about Words), at the Institut fuer Deutsche Sprache (Institute for the German Language), June 2001, Mannheim, Germany
- ‘Cross-Lingual Information Retrieval’, at ASIS (American Society for Information Science and Technology), November 2000, Chicago, USA
- ‘Multilingual Lexicons’, at the Final Workshop of the SIMPLE Project, June 2000, Greece

## ***Member of Professional Organizations***

- Since January 2014: founding member of the [W3C Community Group on Linked Data Models for Emotion and Sentiment Analysis](#)
- Since July 2011: Co-Chair of the [W3C Ontology-Lexica Community Group](#)
- February 2007 – October 2013: Information Officer of the Special Interest Group on Computational Semantics of the Association for Computational Linguistics ([SIGSEM](#))
- April 2009 - May 2010: Executive Council Member (founding member) of the International Association for Ontology and its Applications ([IAOA](#))
- June 2004 - December 2008: DFKI representative in W3C Advisory Committee

## ***Organization of Scientific Events***

### **Conference Organizing Co-Chair**

- [1<sup>st</sup> International Conference on Language, Data and Knowledge](#) (LDK), June 2017, Galway, Ireland
- [5<sup>th</sup> International Conference on Formal Ontology in Information Systems](#) (FOIS), November 2008, Saarbrücken, Germany

### **Workshop Organizing Co-chair**

- [Scientometrics](#) at ESWC, May 2017, Portorož, Slovenia - with: Aliaksandr Birukou, Springer, Germany; Javier D. Fernández, Axel Polleres, Sabrina Kirrane, WU Vienna, Austria; Anna Lisa Gentile, Ioanna Hulpus, Universität Mannheim, Germany; Paul Groth, Elsevier Labs, the Netherlands; Pascal Hitzler, Wright State University, USA; Krzysztof Janowicz, UC Santa Barbara, USA; Elmar Kiesling, Marta Sabou, TU Vienna, Austria; Andrea Nuzzolese, ISTC-CNR, Italy; Francesco Osborne, KMi, UK; Harald Sack, KIT Karlsruhe, Germany
- [Emotion and Sentiment Analysis](#) (ESA) at LREC, May 2016, Portorož, Slovenia - with: Fernando Sánchez-Rada, Carlos Iglesias: UPM, Spain; Björn Schuller: Imperial College London, UK; Gabriela Vulcu: Insight Centre for Data Analytics, NUIG, Ireland; Laurence Devillers: LIMSI, France
- [Taxonomy Extraction with Applications in Semantics](#) (TEXAS) at EMNLP, October 2014, Doha, Qatar - with Georgeta Bordea: INSIGHT, National University of Ireland, Galway; Roberto Navigli: Sapienza University of Rome, Italy; Stefano Faralli: Sapienza University of Rome, Italy – cancelled
- [5<sup>th</sup> International Workshop on Emotion, Social Signals, Sentiment & Linked Open Data](#) (ES<sup>3</sup>LOD) at LREC, May 2014, Reykjavik, Iceland - with Björn Schuller: Imperial College, UK; Laurence Devillers: Univ. Sorbonne/CNRS-LIMSI, France; Catherine Pelachaud: CNRS - LTCI, France; Thierry Declerck: DFKI, Germany; Anton Batliner: FAU/TUM, Germany; Paolo Rosso: Univ. Politèc, Valencia, Spain; Seán Gaines: Vicomtech-IK4, Spain
- [3<sup>rd</sup> Workshop on the Multilingual Semantic Web](#) (MSW3) at the 11<sup>th</sup> International Semantic Web Conference, November 2012, Boston, MA, USA - with Philipp Cimiano: Universitaet

Bielefeld, Germany; Dave Lewis: Trinity College Dublin, Ireland; James Pustejovsky: Brandeis University, MA USA; Felix Sasaki: W3C & DFKI GmbH, Germany

- [Workshop on the Multilingual Semantic Web at Schloss Dagstuhl](#) - Leibniz-Zentrum für Informatik, September 2012, Dagstuhl, Germany - with Key-Sun Choi (KAIST, South-Korea), Philipp Cimiano (CITEC, Universität Bielefeld, Germany), Eduard Hovy (ISI, University of Southern California, USA)
- [Interacting with Linked Data](#) (ILD) at the 9<sup>th</sup> Extended Semantic Web Conference, May 2012, Heraklion, Greece - with Christina Unger, Philipp Cimiano (CITEC, Universität Bielefeld), Vanessa Lopez, Enrico Motta (KMi, Open University), Richard Cyganiak (DERI, National University of Ireland, Galway)
- [2<sup>nd</sup> Workshop on the Multilingual Semantic Web](#) (MSW2) at the 10<sup>th</sup> International Semantic Web Conference, October 2011, Bonn, Germany - with Philipp Cimiano, John McCrae: Universitaet Bielefeld, Germany; Elena Montiel-Ponsoda, Universidad Politecnica de Madrid, Spain
- [1<sup>st</sup> Workshop on the Multilingual Semantic Web](#) (MSW) at the 19<sup>th</sup> World Wide Web conference, April 2010, Raleigh, NC, USA - with Philipp Cimiano: Universitaet Bielefeld, Germany; Elena Montiel-Ponsoda, Universidad Politecnica de Madrid, Spain
- [3<sup>rd</sup> Workshop on Ontology Learning and Population](#) (OLP3) at ECAI (European Conference on Artificial Intelligence), July 2008, Patras, Greece - with Philipp Cimiano: AIFB, University of Karlsruhe, Germany; George Paliouras, NCSR -"Demokritos", Greece; Myra Spiliopoulou, Otto-von-Guericke University Magdeburg, Germany
- [From Text to Knowledge: The Lexicon/Ontology Interface](#) (OntoLex) at the 6<sup>th</sup> International Semantic Web Conference (ISWC), November 2007, Busan, South-Korea - with: Key-Sun Choi, Semantic Web Research Center - KAIST, South-Korea; Aldo Gangemi, LOA-CNR, Italy; Chu-Ren Huang, Academia Sinica, Taiwan; Alessandro Oltramari, Cogito S.r.l., Italy
- [2<sup>nd</sup> Workshop on Ontology Learning and Population](#) (OLP2) at COLING/ACL, July 2006, Sydney, Australia - with Philipp Cimiano: AIFB, University of Karlsruhe, Germany; Berenike Loos: EML, Heidelberg, Germany
- [Interfacing Ontologies and Lexical Resources for Semantic Web Technologies](#) (OntoLex) at Language Resources and Evaluation Conference (LREC), May 2006, Genoa, Italy - with: Alessandro Oltramari, LOA-CNR & University of Trento, Italy; Chu-Ren Huang, Academia Sinica, Taiwan; Alessandro Lenci, University of Pisa, Italy; Christiane Fellbaum, Princeton University, USA
- [Ontology Learning and Population](#) at European Conference on Artificial Intelligence (ECAI), August 2004, Valencia, Spain - with: Bernardo Magnini: IRST-Trento, Italy; Siegfried Handschuh: AIFB, University of Karlsruhe, Germany
- [Semantic Annotation and Intelligent Content at COLING](#) (International Conference on Computational Linguistics), August 2000, Luxembourg - with: Koiti Hasida: ETL, Japan
- Workshop on [Lexical Semantics in Context: Corpus, Inference and Discourse](#) at ESSLLI (European Summer School on Logic, Language and Information), August 1998, Saarbrücken, Germany - with: Johan Bos: Saarland University, Germany

## Tutorial Organizer

- [Ontologies and Lexical Semantics in Natural Language Understanding](#) at ESSLLI (European Summer School on Logic Language and Information), August 2007, Dublin, Ireland - with: Philipp Cimiano, AIFB, University of Karlsruhe, Germany
- [Ontology Learning from Text](#) at EACL (Conference of the European Association for Computational Linguistics), April 2006, Trento, Italy - with: Philipp Cimiano, AIFB, University of Karlsruhe, Germany
- [Ontology Learning from Text](#) at ECML/PKDD (European Conference on Machine Learning), October 2005, Porto, Portugal - with: Philipp Cimiano, AIFB, University of Karlsruhe, Germany; Marko Grobelnik, Jozef Stefan Institute, Ljubljana, Slovenia; Michael Sintek, DFKI GmbH, Germany

### **Panel Organizing Chair**

- *Domains, Topics and Senses* in the context of the SENSEVAL2 Workshop at ACL/EACL, July 2001, Toulouse, France

### **Challenge Organizing Co-Chair**

- *SemEval 2016 Task 13: Taxonomy Extraction Evaluation (TExEval-2)* – with Georgeta Bordea: Insight Centre for Data Analytics, NUIG, Ireland; Els Lefever: Universiteit Gent, Belgium
- *SemEval 2017 Task 17: Taxonomy Extraction Evaluation (TExEval)* – with Georgeta Bordea: Insight Centre for Data Analytics, NUIG, Ireland; Stefano Faralli, Roberto Navigli: Dipartimento di Informatica, Sapienza University of Rome, Italy

### **Summer School Program Area Co-Chair**

- European Summer School on Logic, Language and Information (ESSLLI), Area: Language and Computation, August 2004, Nancy, France.

### **Conference Program Co-Chair**

- IRFC 2014 - 7<sup>th</sup> Information Retrieval Facility Conference, November 2014, Copenhagen, Denmark
- SAMT 2007 - 2<sup>nd</sup> International Conference on Semantics and Digital Media Technology, December 2007, Genova, Italy

### **Senior Member / Area Co-Chair of Conference Program Committee**

- SEMANTiCS 2015 - 11<sup>th</sup> International Conference on Semantic Systems (Senior PC Member) Vienna, Austria, September 2015
- \*SEM 2015 – 4<sup>th</sup> Joint Conference on Lexical and Computational Semantics (Area Chair: Lexical resources, linked data, ontologies), Denver, Colorado, June 2015
- AAAI 2015 – 29<sup>th</sup> AAAI Conference on Artificial Intelligence (Senior PC Member), Austin, TX, USA
- IUI 2013 – ACM International Conference on Intelligent User Interfaces (Senior PC Member: Semantic Web track), Santa Monica, CA, USA
- ESWC 2012 – 9<sup>th</sup> Extended Semantic Web Conference (Track co-chair: Natural Language Processing and Information Retrieval), Heraklion, Greece
- ISWC 2010 – 9<sup>th</sup> International Semantic Web Conference (Senior PC Member), Shanghai, China
- CIKM 2008 – 17<sup>th</sup> ACM Conference on Information and Knowledge Management (Meta-Reviewer for Track: Knowledge Management), Napa Valley CA, USA
- COLING 2008 – 22<sup>nd</sup> International Conference on Computational Linguistics (Area Chair: lexicon, lexical semantics, word sense disambiguation), Manchester, UK
- EACL 2006 – 11<sup>th</sup> Conference of the European Chapter of the Association for Computational Linguistics (Area Chair: lexicon, lexical databases, ontologies, language resources), Trento, Italy

### **Member of Conference Program Committee**

- IWCS – 12<sup>th</sup> International Conference on Computational Semantics, Montpellier, France, September 2017
- \*SEM – 6<sup>th</sup> Joint Conference on Lexical and Computational Semantics, Vancouver, Canada, August 2017
- ACL – 55<sup>th</sup> Annual Meeting of the Association for Computational Linguistics, Vancouver, Canada, July/August 2017

- LDK – 1<sup>st</sup> International Conference on Language, Data and Knowledge, Galway, Ireland, June 2017
- NLDB – 22<sup>nd</sup> International Conference on Natural Language & Information Systems, Liege, Belgium, June 2017
- ESWC – 14<sup>th</sup> Extended Semantic Web Conference, Portoroz, Slovenia, May/June 2017
- ECIR – 39<sup>th</sup> European Conference on Information Retrieval, Aberdeen, UK, April 2017
- EACL – 15<sup>th</sup> Conference of the European Chapter of the Association for Computational Linguistics, Valencia, Spain, April 2017
- AAAI – 31<sup>st</sup> Conference on Artificial Intelligence, San Francisco, CA, USA, February 2017
- COLING – 26<sup>th</sup> International Conference on Computational Linguistics, Osaka, Japan, December 2016
- EMNLP – Empirical Methods in Natural Language Processing, Austin, USA, November 2016
- ISWC – 15<sup>th</sup> International Semantic Web Conference, Kobe, Japan, October 2016
- SEMANTICS, Leipzig, Germany, September 2016
- ACL - 54<sup>th</sup> Annual Meeting of the Association for Computational Linguistics (Semantics area), Berlin, Germany, August 2016
- \*SEM – 5<sup>th</sup> Joint Conference on Lexical and Computational Semantics, Berlin, Germany, August 2016
- FOIS - 9<sup>th</sup> International Conference on Formal Ontology in Information Systems, Annecy, France, July 2016
- NAACL - North American Chapter of the Association for Computational Linguistics & Human Language Technologies, San Diego, CA, USA, June 2016
- TKE - 12<sup>th</sup> Conference on Terminology and Knowledge Engineering, June 2016, Copenhagen, Denmark
- LREC 2016 - 10<sup>th</sup> International Conference on Language Resources and Evaluation, Portorož, Slovenia, May 2016
- ECIR 2016 - 38<sup>th</sup> European Conference on Information Retrieval, Padua, Italy, March 2016
- CLIC 2015 - 2<sup>nd</sup> Conferenza Italiana di Linguistica Computazionale, Povo, Italy, December 2015
- TIA 2015 – 11th Terminology and Artificial Intelligence conference (TIA 2015), Granada, Spain, November 2015
- ISWC 2015 - 14<sup>th</sup> International Semantic Web Conference, Bethlehem, PA, USA, October 2015
- ACL-IJCNLP 2015 - 53<sup>rd</sup> Annual Meeting of the Association for Computational Linguistics and the 7<sup>th</sup> International Joint Conference on Natural Language Processing, Beijing, China, July 2015
- NAACL HLT – North American Chapter of the Association for Computational Linguistics & Human Language Technologies, Denver, Colorado, USA, May/June 2015
- ESWC – 12<sup>th</sup> European Semantic Web Conference, Portoroz, Slovenia, May/June 2015
- IWCS – 11<sup>th</sup> International Conference on Computational Semantics, London, UK, April 2015
- ECIR – 37<sup>th</sup> European Conference on Information Retrieval, Vienna, Austria March/April 2015
- ISWC – 13<sup>th</sup> International Semantic Web Conference, Riva del Garda, Italy, October 2014
- CLIC-it – 1<sup>st</sup> Italian Conference on Computational Linguistics, Pisa, Italy, December 2014
- EMNLP – Conference on Empirical Methods in Natural Language Processing, Doha, Qatar, October 2014
- FOIS – 8<sup>th</sup> International Conference on Formal Ontology in Information Systems, Rio de Janeiro, Brazil, September 2014
- \*SEM – 3<sup>rd</sup> Joint Conference on Lexical and Computational Semantics, Dublin, Ireland, August 2014
- COLING – 25<sup>th</sup> International Conference on Computational Linguistics, Dublin, Ireland, August 2014
- ECAI - 21<sup>st</sup> European Conference on Artificial Intelligence, Prague, Czech Republic, August 2014

- TKE - 11<sup>th</sup> International conference on Terminology and Knowledge Engineering, Berlin, Germany, June 2014
- ACL - 52<sup>nd</sup> Annual Meeting of the Association for Computational Linguistics, Baltimore, Maryland, USA, June 2014
- LREC - 9<sup>th</sup> International Conference on Language Resources and Evaluation, Reykjavik, Iceland, May 2014
- EACL - 14<sup>th</sup> Conference of the European Chapter of the Association for Computational Linguistics, Gothenburg, Sweden, April 2014
- TIA - 10<sup>th</sup> Conference on Terminology and Artificial Intelligence / 10e Conférence Terminologie et Intelligence Artificielle, Paris, France, October 2013
- ISWC- 12<sup>th</sup> International Semantic Web Conference, Sydney, Australia, October 2013
- EMNLP - Empirical Methods in Natural Language Processing, Seattle, USA, October 2013
- IRFC - 6<sup>th</sup> Information Retrieval Facility Conference, October 2013, Limassol, Cyprus
- GSCL - German Society for Computational Linguistics and Language Technology, Darmstadt, Germany, September 2013
- ACL - 51<sup>st</sup> Annual Meeting of the Association for Computational Linguistics, Sofia, Bulgaria, August 2013
- \*SEM - 2<sup>nd</sup> Joint Conference on Lexical and Computational Semantics, Atlanta, US, June 2013
- WWW - 22<sup>nd</sup> World Wide Web Conference, May 2013, Rio de Janeiro, Brazil
- ESWC - 10<sup>th</sup> Extended Semantic Web Conference, May 2013, Montpellier, France
- IWCS - 10<sup>th</sup> International Conference on Computational Semantics, Potsdam, Germany, March 2013
- ISWC - 11<sup>th</sup> International Semantic Web Conference, November 2012, Boston MA, USA
- EKAW - 18<sup>th</sup> International Conference on Knowledge Engineering and Knowledge Management, October 2012, Galway, Ireland
- AAAI - 26<sup>th</sup> Conference on Artificial Intelligence, July 2012, Toronto, Ontario, Canada
- IRFC - 5<sup>th</sup> Information Retrieval Facility Conference, July 2012, Vienna, Austria
- ACL - 50<sup>th</sup> annual meeting of the Association for Computational Linguistics (ACL), July 2012, Jeju Island, South-Korea
- FOIS - 7<sup>th</sup> International Conference on Formal Ontologies in Information Systems, July 2012, Graz, Austria
- SEM - 1<sup>st</sup> Joint Conference on Lexical and Computational Semantics, co-located with NAACL-HLT, June 2012, Montreal, Canada
- NLDB - 17<sup>th</sup> conference on Applications of Natural Language to Information Systems, June 2012, Groningen, the Netherlands
- TKE - 10<sup>th</sup> Conference on Terminology and Knowledge Engineering, June 2012, Madrid, Spain
- LREC - 8<sup>th</sup> International Conference on Language Resources and Evaluation, May 2012, Istanbul, Turkey
- EACL - 13<sup>th</sup> Conference of the European Chapter of the Association for Computational Linguistics, April 2012, Avignon, France
- WWW - International World Wide Web conference (demo session), April 2012, Lyon, France
- IJCNLP - 5<sup>th</sup> International Joint Conference on Natural Language Processing, November 2011, Chiang Mai, Thailand
- ISWC - 10th International Semantic Web Conference, October 2011, Bonn, Germany
- AAAI - 25<sup>th</sup> Conference on Artificial Intelligence, August 2011, San Francisco, California, USA
- EMNLP - Conference on Empirical Methods in Natural Language Processing, July 2011, Edinburgh, UK
- K-CAP - 6<sup>th</sup> International Conference on Knowledge Capture, June 2011, Banff, Canada
- EKAW - 17<sup>th</sup> International Conference on Knowledge Engineering and Knowledge Management, Oct. 2010, Lisbon, Portugal
- ECAI - 19<sup>th</sup> European Conference on Artificial Intelligence, Aug.2010, Lisbon, Portugal

- ACL (Area: Lexical Semantics) - 48<sup>th</sup> Annual Meeting of the Association for Computational Linguistics, July 2010, Uppsala, Sweden
- ESWC (PhD Symposium) - 7<sup>th</sup> Extended Semantic Web Conference, June 2010, Crete, Greece
- LREC - 7<sup>th</sup> International Conference on Language Resources and Evaluation, May 2010, Malta
- FOIS - 6<sup>th</sup> International Conference on Formal Ontology in Information Systems, May 2010, Toronto, Canada
- ASWC - 4<sup>th</sup> Asian Semantic Web Conference, Dec. 2009, Shanghai, China
- ISWC (Main Conference, Demo & Poster Session & PhD Track) - 8<sup>th</sup> International Semantic Web Conference, Oct. 2009, Washington DC
- ECML/PKDD - European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases, Sept. 2009, Bled, Slovenia
- K-CAP - 5<sup>th</sup> International Conference on Knowledge Capture, Sept. 2009, Redondo Beach, California, USA
- EMNLP - International Conference on Empirical Methods in Natural Language Processing, Aug. 2009, Singapore
- ACL-IJCNLP (Area: Information Extraction & Demo Session) - 47<sup>th</sup> Annual Meeting of the Association for Computational Linguistics & 4<sup>th</sup> International Joint Conference on Natural Language Processing, Aug. 2009, Singapore
- ESWC (Main Conference, Demo & Poster Session & PhD Track) - 6<sup>th</sup> European Semantic Web Conference, June 2009, Crete, Greece
- EACL (Area: lexicon, lexical databases, language resources, ontologies) - 12th Conference of the European Chapter of the Association for Computational Linguistics, April 2009, Athens, Greece
- MMM - 15<sup>th</sup> International MultiMedia Modeling Conference, Jan. 2009, Sophia Antipolis, France
- FOIS - 5<sup>th</sup> International Conference on Formal Ontology in Information Systems, November 2008, Saarbrücken, Germany
- ICSC - 2<sup>nd</sup> IEEE International Conference on Semantic Computing, August 2008, Santa Clara CA, USA
- ESWC - 5th European Semantic Web Conference, June 2008, Tenerife, Spain
- ACL08 (Area: lexical Semantics) - 46<sup>th</sup> Annual Meeting of the Association for Computational Linguistics, June 2008, Columbus OH, USA
- IJCNLP - 3<sup>rd</sup> International Joint Conference on Natural Language Processing, January 2008, Hyderabad, India
- ISWC - 6<sup>th</sup> International Semantic Web Conference, November 2007, Busan, South-Korea
- I-KNOW (Special Track on Knowledge Organization and Semantic Technologies), September 2007, Graz, Austria
- ECML/PKDD - European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases, September 2007, Warsaw, Poland
- ACL (Area: lexicon, lexical databases, ontologies, language resources), June 2007, Prague, Czech Republic
- 16<sup>th</sup> WWW Conference (Semantic Web Track), May 2007, Banff, Canada
- FLAIRS (Special Track on Artificial Intelligence and Social Semantic Collaboration), May 2007, Key West FL, USA
- 22<sup>nd</sup> Annual ACM Symposium on Applied Computing (Technical Track on Semantic Web and Applications), March 2007, Seoul, Korea
- ISWC06 - 5<sup>th</sup> International Semantic Web Conference, November 2006, Athens GA, USA
- I-KNOW - International Conference on Knowledge Management (Special Track on Advanced Semantic Technologies), Sept. 2006, Graz, Austria
- ESWC - 3<sup>rd</sup> European Semantic Web Conference, May 2006, Montenegro
- LREC - 5<sup>th</sup> International Conference on Language Resources and Evaluation, May 2006, Genoa, Italy
- 3<sup>rd</sup> International Conference of the Global WordNet Association, Korea, January 2006

- IJCNLP - 2<sup>nd</sup> International Joint Conference on Natural Language Processing (Area: Semantics and Ontologies), Oct. 2005, Jeju Island, Korea
- ECCB - 4<sup>th</sup> European Conference on Computational Biology (Area: Text Mining), Sept./Oct. 2005, Madrid, Spain
- ISMB - Intelligent Systems for Molecular Biology (Area: Text Mining), June 2005, Michigan, USA
- ESWC – 2<sup>nd</sup> European Semantic Web Conference, May 2005, Crete, Greece
- 14<sup>th</sup> WWW Conference (Semantic Web Track), May 2005, Chiba, Japan
- COLING (Area: Lexical Semantics & Area: Ontologies, Lexicons and Lexical Databases for NLP), August 2004, Geneva, Switzerland
- ISMB/ECCB - Intelligent Systems for Molecular Biology & European Conference on Computational Biology (Area: Databases, Ontologies and Text Mining), August 2004, Glasgow, UK
- LREC - 4<sup>th</sup> International Conference on Language Resources and Evaluation, May 2004, Lisboa, Portugal
- 13<sup>th</sup> WWW Conference (Semantic Web Track), May 2004, New York, USA
- IJCNLP (Area: Lexical Semantics, Ontology and Linguistic Resources), March 2004, Hainan Island, China
- 2<sup>nd</sup> International WordNet Conference, January 2004, Brno, Czech Republic
- ACL (Area: Lexical Semantics and Ontologies for NLP), July 2003, Sapporo, Japan
- EACL (Area: Lexicon, Lexical Semantics), April 2003, Budapest, Hungary
- COLING (Area: Semantics & Area: Syntax), August 2002, Taipei, Taiwan
- 1st International WordNet Conference, January 2002, Mysore, India
- FOIS - 2<sup>nd</sup> International Conference on Formal Ontology in Information Systems, October 2001, Ogonquit, Maine, USA
- IJCAI (Area: NLP/HCI), August 2001, Seattle, Washington, USA
- ACL (Area: Lexicon and Semantics), October 2000, Hong Kong
- COLING/ACL (Area: Large R&D Cooperative Projects), August 1998, Montreal, Canada

### **Member of Workshop Program Committee**

- 1<sup>st</sup> Workshop on Knowledge Extraction and Knowledge Integration at the 15<sup>th</sup> International Semantic Web Conference (ISWC), Kobe, Japan, October 2016
- 4<sup>th</sup> International Workshop on NLP & DBpedia at the 15<sup>th</sup> International Semantic Web Conference (ISWC), Kobe, Japan, October 2016
- 10<sup>th</sup> LaTeCH Workshop on Language Technology for Cultural Heritage, Social Sciences, and Humanities at ACL 2016, Berlin, Germany, August 2016
- 5<sup>th</sup> Workshop on Controlled Natural Language, Aberdeen, Scotland, July 2016
- 2<sup>nd</sup> International Workshop on Computational History and Data-Driven Humanities, Dublin, Ireland, May 2016
- 5<sup>th</sup> Workshop on Linked Data in Linguistics: Managing, Building and Using Linked Language Resources, at LREC, Portorož, Slovenia, May 2016
- 2<sup>nd</sup> Joint Workshop on Language and Ontology (LangOnto2) & Terminology and Knowledge Structures (TermiKS), at LREC, Portorož, Slovenia, May 2016
- 3<sup>rd</sup> NLP & DBpedia workshop at ISWC 2015, Bethlehem, PA, USA, October 2015
- 9<sup>th</sup> LaTeCH Workshop on Language Technology for Cultural Heritage, Social Sciences, and Humanities at ACL-IJCNLP 2015, Beijing, China, July 2015
- 4<sup>th</sup> Workshop on Linked Data in Linguistics: Resources and Applications at ACL-IJCNLP 2015, Beijing, China, July 2015
- 4<sup>th</sup> Workshop on the Multilingual Semantic Web, at the 12<sup>th</sup> Extended Semantic Web Conference (ESWC 2015), Portorož, Slovenia, June 2015
- Multilingual Web Access workshop at WWW 2015, Florence, Italy, May 2015
- 1<sup>st</sup> Workshop on Natural Language Access to Big Data (AAAI Fall Symposium), Arlington, VA, USA, November 2014

- Workshop on Linked Data for Information Extraction at ISWC, Riva del Garda, Italy, October 2014
- NLP & DBpedia Workshop at ISWC, Riva del Garda, Italy, October 2014
- 3<sup>rd</sup> Workshop on Semantic Web and Information Extraction at COLING, Dublin, Ireland, August 2014
- 4<sup>th</sup> Workshop on Controlled Natural Language at COLING, Galway, Ireland, August 2014
- 1<sup>st</sup> International Workshop on Personalised Multilingual Information Access at UMAP 2014, Aalborg, Denmark, July 2014
- 1<sup>st</sup> Workshop on Semantic Sentiment Analysis at ESWC 2014, Hersonissos, Crete, May, 2014
- 10<sup>th</sup> Joint ACL - ISO Workshop on Interoperable Semantic Annotation at LREC, Reykjavik, Iceland, May 2014
- CCURL 2014 workshop on Collaboration and Computing for Under-Resourced Languages in the Linked Open Data Era at LREC, Reykjavik, Iceland, May 2014
- Workshop on Computational Approaches to Causality in Language at EACL, Gothenburg, Sweden, April 2014
- 8<sup>th</sup> LaTeCH Workshop on Language Technology for Cultural Heritage, Social Sciences, and Humanities at EACL, Gothenburg, Sweden, April 2014
- NLP & DBpedia workshop at the International Semantic Web Conference, Sydney, Australia, October 2013
- 2<sup>nd</sup> workshop on Semantic Web and Information Extraction at RANLP (Recent Advances in Natural Language Processing), Hissar, Bulgaria, September 2013
- ACL 2013 workshop on Language Technology for Cultural Heritage, Social Sciences, and Humanities (LaTeCH 2013), Sofia, Bulgaria, August 2013
- 1<sup>st</sup> International IFIP Working Conference on Value-Driven Social Semantics & Collective Intelligence (VaSCo) at ACM Web Science, Paris, France, May 2013
- Web of Linked Entities Workshop at ISWC, Boston MA, USA, November 2012
- Joint Workshop on Knowledge Evolution and Ontology Dynamics at ISWC, Boston MA, USA, November 2012
- Workshop on Language Technology for Cultural Heritage, Social Sciences, and Humanities at EACL, Avignon, France, April 2012
- 2<sup>nd</sup> International Workshop on Evaluation of Semantic Technologies at ESWC, Heraklion, Greece, May 2012
- The People's Web meets NLP: Collaboratively Constructed Semantic Resources and their Applications to NLP at ACL, Jeju Island, South-Korea, July 2012
- Workshop on Language Resource Merging at LREC, Istanbul, Turkey, May 2012
- Workshop on DETecting and Exploiting Cultural diversiTy on the Social Web (DETECT) at CIKM, Glasgow, Scotland, October 2011
- Workshop on Knowledge Evolution and Ontology Dynamics at ISWC, Bonn, Germany, October 2011
- International Workshop on Lexical Resources at ESSLLI 2011, Ljubljana, Slovenia, August 2011
- Workshop on Entity-Oriented Search (EOS) at SIGIR 2011, Beijing, China, July 2011
- Geometrical Models of Natural Language Semantics (GEMS) at EMNLP, Edinburgh, UK, July 2011
- Workshop on Relational Models of Semantics at ACL-HLT, Portland, Oregon, USA, June 2011
- Distributional Semantics and Compositionality Workshop (DiSCo) at ACL-HLT, Portland, Oregon, USA, June 2011
- 5<sup>th</sup> Workshop on Language Technology for Cultural Heritage, Social Sciences, and Humanities (LaTeCH) at ACL-HLT, Portland, Oregon, USA, June 2011
- 4<sup>th</sup> International Semantic Search Workshop at the WWW conference, Hyderabad, India, March 2011
- Workshop on Annotation and Exploitation of Parallel Corpora, Tartu, Estonia, December 2010

- Cross-lingual Expert Search - Bridging Cross-Lingual IR and Social Media at CLEF, Padua, Italy, September 2010
- 6<sup>th</sup> Workshop on Ontologies and Lexical Resources (OntoLex) at COLING, Beijing, China, August 2010
- 2<sup>nd</sup> Workshop on The People's Web meets NLP: Collaboratively Constructed Semantic Resources at COLING, Beijing, China, August 2010
- 4<sup>th</sup> Workshop on Language Technology for Cultural Heritage, Social Sciences, and Humanities at ECAI, Lisbon, Portugal, August 2010
- GEometrical Models of Natural Language Semantics (GEMS) at ACL, Uppsala, Sweden, July 2010
- 3<sup>rd</sup> Semantic Search workshop at WWW, Raleigh, USA, April 2010
- The People's Web meets NLP: Collaboratively Constructed Semantic Resources at ACL/IJCNLP, Singapore, August 2009
- GEometrical Models of Natural Language Semantics at EACL, Athens, Greece, April 2009
- Language Technology and Resources for Cultural Heritage, Social Sciences, Humanities, and Education at EACL, Athens, Greece, April 2009
- Semantic Representation of Spoken Language at EACL, Athens, Greece, April 2009
- Distributional Lexical Semantics: Bridging the gap between semantic theory and computational simulations at ESSLLI, Hamburg, Germany, August 2008
- Semantic Search at the 5<sup>th</sup> European Semantic Web Conference, Tenerife, Spain, June 2008
- Building and evaluating resources for biomedical text mining at LREC, Marrakech, Morocco, May 2008
- 2<sup>nd</sup> Linguistic Annotation Workshop (the LAW) at LREC, Marrakech, Morocco, May 2008
- 5<sup>th</sup> International Workshop on Philosophy and Informatics, Kaiserslautern, Germany, April 2008
- Semantic Representation of Speech at the conference of the Spanish association for artificial intelligence (CAEPIA), Salamanca, Spain, November 2007
- Natural Language Processing and Knowledge Representation for eLearning Environments at RANLP (International Conference on Recent Advances in NLP), Borovetz, Bulgaria, September 2007
- Acquisition and Management of Multilingual Lexicons at RANLP (International Conference on Recent Advances in NLP), Borovetz, Bulgaria, September 2007
- Contextual Information in Semantic Space Models: Beyond Words and Documents at 6<sup>th</sup> International and Interdisciplinary Conference on Modeling and Using Context, Denmark, August 2007
- Linguistic Annotation Workshop (the LAW) at ACL, Prague, Czech Republic, June 2007
- Web Content Mining with Human Language Technologies at ISWC, November 2006, Athens GA, USA
- Semantic Web Applications: Theory and Practice (SWAT 2006) at 25<sup>th</sup> International Conference on Conceptual Modeling (ER 2006), November 2006, Tucson, Arizona, USA
- Annotating and Reasoning about Time and Events at COLING/ACL, July 2006, Sydney, Australia
- International Workshop on Intelligent Information Access (IIA2006), July 2006, Helsinki, Finland
- 3<sup>rd</sup> Workshop on Scalable Natural Language Understanding at HLT/NAACL, June 2006, Boston, USA
- 3<sup>rd</sup> International Workshop on Philosophy and Informatics, May 2006, Saarbruecken, Germany
- Cross-Language Knowledge Induction at EACL, April 2006, Trento, Italy
- Multi-dimensional Markup in Natural Language Processing at EACL, April 2006, Trento, Italy
- Knowledge Markup and Semantic Annotation at ISWC, November 2005, Galway, Ireland
- Ontology Mining & Engineering and its Use for Virtual Reality (WOMEUVR05) at OTM, November 2005, Agia Napa, Cyprus

- Ontologies and Lexical Resources (OntoLex 2005) at IJCNLP, October 2005, Jeju Island, Korea
- Knowledge Discovery and Ontologies at ECML, October 2005, Porto, Portugal
- Representation and Analysis of Web Space, September 2005, Prague-Tocna, Czech Republic
- Learning in Web Search at ICML, August 2005, Bonn, Germany
- Learning and Extending Lexical Ontologies by Using Machine Learning Methods at ICML, August 2005, Bonn, Germany
- Knowledge Markup and Semantic Annotation at ISWC, November 2004, Hiroshima, Japan
- Application of Language and Semantic Technologies to Support Knowledge Management Processes at EKAW, October 2004, Northamptonshire, UK
- RDF/RDFS and OWL in Language Technology at ACL, July 2004, Barcelona, Spain
- A Registry of Linguistic Data Categories within an Integrated Language Resources Repository Area at LREC, May 2004, Lisbon, Portugal
- Knowledge Markup and Semantic Annotation at K-CAP, October 2003, Florida, USA
- Human Language Technology for the Semantic Web and Web Services at ISWC, October 2003, Florida, USA
- Prospects and advances in the syntax/semantics interface, October 2003, Nancy, France.
- Language Technology and the Semantic Web at EACL, April 2003, Budapest, Hungary
- Semantic Web Meets Language Resources at AAI, July 2002, Edmonton, Alberta, Canada
- Semantic Authoring, Annotation & Knowledge Markup at ECAI, July 2002, Lyon, France
- Semantic Web Workshop at the WWW Conference, May 2002, Hawaii, USA
- Ontologies and Lexical Knowledge Bases (OntoLex 2002) at LREC, May 2002, Las Palmas, Spain
- Wordnet Structures and Standardization at LREC, May 2002, Canary Islands, Spain
- Natural Language Processing in Biomedical Applications at EFMI, March 2002, Nicosia, Cyprus
- Knowledge Markup and Semantic Annotation at K-CAP, October 2001, Victoria B.C., Canada
- Multi-Layer Corpus-based Analysis at the EuroLan Summer School, July/August 2001, Iasi, Romania
- Semantic Web Workshop (SemWeb 2001) at the WWW Conference, May 2001, Hong Kong

## ***Journal Reviewing***

### **Editorial Board Member**

- Since Oct 2004 – Dec 2016: *Language Resources and Evaluation Journal*, Springer (eds. Nicoletta Calzolari, Nancy Ide)
- Dec 2004 – July 2011: *FOLLI Publications on Logic, Language and Information*, Sub-series of Lecture Notes in AI, Springer (eds. Luigia Aiello, Michael Moortgat, Maarten de Rijke)

### **Reviewer for Journal Special Issues**

- Special Issue on *Under-resourced Languages, Collaborative Approaches and Linked Open Data: Resources, Methods and Applications*. *Language Resources and Evaluation Journal*, Springer – to appear
- Special Issue on *Artificial Intelligence, Wikipedia and Semi-Structured Resources*. *Artificial Intelligence Journal*, Vol.194, Elsevier, 2013
- Special Issue on *Ontologies and Terminologies: Continuity or Rupture*. *Applied Ontology*, Vol. 7:4, IOS press, 2012
- Special Issue on *Free Language Resources*. *Traitement Automatique des Langues*, Vol. 52:3, Lavoisier, 2011
- Special Issue on *Semantic Analysis for Interactive Multimedia Services*. *Signal Processing: Image Communication*, Vol. 23:7, Elsevier, 2008

- Special Issue on *Summarization and Information Extraction from Medical Documents*. Artificial Intelligence in Medicine, Vol. 33:2, Elsevier, 2005
- Special Issue on *Semantic Lexicons*, Traitement Automatique des Langues. Vol. 42:3, Lavoisier, 2002

### **Journal Reviewer**

- ACM Computing Surveys
- ACM Journal on Computing and Cultural Heritage
- Applied Ontology, IOS Press
- Artificial Intelligence, Elsevier
- Bioinformatics, Oxford University Press
- Communications of the ACM
- Computational Linguistics, MIT Press
- Data & Knowledge Engineering, Elsevier
- Intelligent Systems, IEEE Computer Society
- International Journal of Human-Computer Studies, Elsevier
- International Journal of Semantic Web and Information Systems, IGI Global
- Journal of Natural Language Engineering, Cambridge University Press
- Journal of Web Semantics, Elsevier
- Knowledge Engineering Review, Cambridge University Press
- Language Resources and Evaluation Journal, Springer

### **Reviewer for Funding Agencies**

- EU - 7<sup>th</sup> Framework Programme for Research and Technological Development (FP7)
- EU - European Cooperation in Science and Technology (COST)
- IWT Strategic Basic Research (SBO), Flanders/Belgium
- Norwegian Research Council
- Nederlandse Organisatie voor Wetenschappelijk Onderzoek - Dutch Research Council (NWO)
- Science Foundation Ireland (SFI)
- Oesterreichische Forschungsfoerderungsgesellschaft - Austrian Research Council (FFG)

# Research Supervision and Teaching

## *PhD Supervision*

### National University of Ireland, Galway

#### Ongoing

- Since Sept. 2016: Omnia Zayed, PhD Computer Science: *Metaphor Analysis in Social Media*
- Since Sept. 2016: Barathi Raja, PhD Computer Science: *Neural Machine Translation of Under-resourced Languages*
- Since May 2014: Andrejs Ābele, PhD Computer Science: *Linked Data Profiling*
- Since Nov. 2013: Sapna Negi, PhD Computer Science: *Suggestion Mining*

#### Graduated

- December 2016: Mihael Arcan, PhD Computer Science: *Machine Translation of Domain-Specific Expressions within Ontologies and Documents*
- May 2016: Nitish Aggarwal, PhD Computer Science: *Leveraging Wikipedia-based Features for Entity Relatedness and Recommendation*
- October 2013: Georgeta Bordea, PhD Computer Science: *Domain adaptive extraction of topical hierarchies for Expertise Mining*
- June 2012: Sean O'Riain, PhD Computer Science: *Semantic Paths in Business Filings Analysis*

### University of South-Africa (Extraordinary Professor)

#### Ongoing

- Since March 2013: Friedel Wolff, PhD Computer Science: *Semantically Aware Translation Memories*

## *PhD External Committee Member*

- Dec. 2016: Sebastian Walter, PhD Computer Science, Universität Bielefeld, Germany
- Nov. 2014: Stefano Faralli, PhD Computer Science, Sapienza University of Rome, Italy
- April 2014: Rilwan Basanya, PhD Computer Science, Universita' di Pisa, Italy
- Nov. 2011: Bo Fu, PhD Computer Science, Trinity College Dublin, Ireland: *Semantic-Oriented Cross-Lingual Ontology Mapping*
- Feb. 2011: Elena Montiel Ponsoda, PhD Applied Linguistics, Universidad Politécnica de Madrid, Spain: *Multilingualism in Ontologies - Multilingual Lexico-Syntactic Patterns for Ontology Modeling and Linguistic Information Repository for Ontology Localization*
- Feb. 2011: Pinar Wennerberg, PhD Computational Linguistics, Ludwig-Maximilians-Universität München, Germany: *Corpus Based Methods for Ontology Modularization in Healthcare*
- Dec. 2009: Antonio Toral, PhD Computational Linguistics, Universitat d'Alacant, Spain: *Enrichment of Language Resources by Exploiting New Text and the Resources Themselves: A case study on the acquisition of a NE lexicon*
- Dec. 2008: Gijs Geleijnse, PhD Industrial Design, Technische Universiteit Eindhoven, the Netherlands: *Information Extraction from the Web using a Search Engine*

## **MSc Supervision**

### **National University of Ireland, Galway**

- June 2015 – Aug. 2016: Bianca Pereira, MSc Computer Science: *Using Knowledge Base Segmentation for Entity Linking*

### **Saarland University, Germany**

- Dec. 2006 - Sept. 2007: Mario Crespo Miguel, MSc Computational Linguistics: *Domain-specific English-to-Spanish Translation of FrameNet*
- Aug. 2005 - June 2006: Nicolas Weber, MSc Computer Science: *Webbasiertes Ontologielernen (Web-based Ontology Learning)*
- April 2004 - Feb. 2005: Srikanth Ramaka, MSc Computer Science: *A Machine Learning Based Approach to Ontology Population*
- Jan. 2003 - June 2004: Daniel Olejnik, Diplom Computer Science: *OntoLT: Ein Protege Plug-in fuer Textbasierte Ontologieextraktion (OntoLT: A Protege Plug-in for Text-based Ontology Extraction)*
- June 2001 - Nov. 2002: Diana Raileanu, Diplom Computational Linguistics: *Domain Specific Semantic Tagging*
- June 2000 - Feb. 2001: Bogdan Sacaleanu, Diplom Computational Linguistics: *Domain Specific Semantic Lexicon Tuning and Extension*

## **BA, BSc Supervision**

### **Saarland University, Germany**

- Aug. 2006 - April 2007: Thomas Eigner, BSc Computer Science: *OntoSelect: An online ontology library with automatic support for ontology selection*
- Sept. 2004 - June 2006: Alexander Schutz, BA Computational Linguistics: *Relation Extraction for Ontology Extension*

## **University Courses**

### **National University of Ireland, Galway**

- Jan. 2017 – May 2017 : 1617-CT5101: *Natural Language Processing*, MSc in Data Analytics
- Jan. 2016 – May 2016 : 1516-CT5101: *Natural Language Processing*, MSc in Data Analytics

### **Saarland University, Germany**

- 2007, 2008: Lectures on *Semantics, Disambiguation, Semantic Web*, BSc in Computer Science
- April 2006 - July 2006: *Ontologies and Lexical Semantics*, MSc (equivalent) in Computational Linguistics
- 2002: Lecture on *WordNet in the Semantic Web*, MSc (equivalent) in Computational Linguistics
- April 2000 - July 2000: *Lexical Semantics in Information Systems*, MSc (equivalent) in Computational Linguistics
- April 1999 - July 1999: *Lexical Semantics in Information Systems*, MSc (equivalent) in Computational Linguistics

## University Seminars

### National University of Ireland, Galway

- April 2009: *Tutorial on Natural Language Processing - for the Semantic Web*, DERI, National University of Ireland, Galway

## Invited Seminars

- Summer School on Linguistic Linked Open Data (12<sup>th</sup> EUROLAN Summer School): 2-day courses on *Linguistic Linked Data in Sentiment Analysis; Taxonomy Extraction*, July 2015, Sibiu, Romania
- MERAKA institute: week-long course on *Ontologies and Word Meaning in Natural Language Processing*, July 2008, Pretoria, South-Africa
- Semantic Web Company: 1-day course on *Text Mining & Semantic Search*, June 2008, Vienna, Austria
- ACL/HCSNet Advanced Program in Natural Language Processing: 2-day course on *Lexical Semantics and Ontologies*, July 2006, Melbourne, Australia
- 1<sup>st</sup> SEKT Summer School on the Semantic Web: lecture on *Human Language Technology for the Semantic Web*, July 2005, Ljubljana, Slovenia
- 2<sup>nd</sup> Summer School on Ontological Engineering and the Semantic Web: week-long course on *Language Technology for the Semantic Web*, July 2004, Cercedilla, Spain
- 1<sup>st</sup> Summer School on Ontological Engineering and the Semantic Web: week-long course on *Language Technology for the Semantic Web*, July 2003, Cercedilla, Spain
- PhD Program in Applied Linguistics, (NLP area): 3-day course on *Computational Lexical Semantics*, Institut de Linguística Aplicada (IULA), Universitat Pompeu Fabra, February 2003, Barcelona, Spain
- EUROLAN Summer School: 2-day courses on *Domains and Senses; Semantic Annotation in Cross-Lingual Information Retrieval*, August 2001, Iasi, Romania
- EUROLAN Summer School: 2-day course on *Concepts in Multilingual Information Retrieval*, August 1999, Iasi, Romania