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Curriculum Vitae

Background

- Born in 1972 in Zagreb, Croatia
- Nationality: Croatian, British
- Foreign languages: fluency in speaking and writing in English and German, reasonable knowledge of Spanish

Education

March 2002 – January 2006. PhD degree in the group of Prof. Rudi Studer at the University of Karlsruhe, Germany, completed with honours.

February 1996 – December 1999. Master's degree in computer science at the Faculty of Electrical Engineering and Computing at University of Zagreb, Croatia, GPA 5.00/5.00.

October 1991 – February 1996. Bachelor's degree in electrical engineering at the Faculty of Electrical Engineering and Computing at University of Zagreb, Croatia, GPA 4.97/5.00. In the first, second, and third year I was presented with the faculty award "Josip Lončar" for being the best student of the year. After completing my studies I was granted the faculty award for overall record during all four years of undergraduate studies.

Awards

- Distinguished paper award for "Foundations of Declarative Data Analysis Using Limit Datalog Programs" at IJCAI 2017 [43]
- Best application paper award for "Semantic Technologies for Data Analysis in Health Care" at ISWC 2016 [47]
- The 2013 Roger Needham award by the British Computer Society (BCS) for "a distinguished research contribution in computer science"
- Selected as one of "AI's Ten to Watch" by IEEE Intelligent Systems, May/June 2008, pp. 16

- The 2007 Cor Baayen award by the European Research Consortium for Informatics and Mathematics (ERCIM) for “a most promising young researcher in computer science and applied mathematics”
- Best paper award for “On the Properties of Metamodeling in OWL” at ISWC 2005 [81]
- Faculty award “Josip Lončar” for overall record during all four years of undergraduate studies

Employment History

September 2008 – Present. Professor of Computer Science in the Department of Computer Science at Oxford University, Oxford, UK; associated with Somerville College as a Senior Research Fellow; was a University Lecturer from September 2008 until August 2014. I am working on various problems related to the theory and practice of knowledge representation and databases.

September 2007 – August 2008. Research Assistant in the Department of Computer Science at Oxford University, Oxford, UK, employed on the REOL project funded by Engineering and Physical Sciences Research Council (EPSRC), grant number EP/C537211/1. I was working on various extensions of OWL and related description logic formalisms.

February 2006 – August 2007. Research Fellow at the Computer Science Department of the University of Manchester, Manchester, UK, employed on the REOL project funded by Engineering and Physical Sciences Research Council (EPSRC), grant number EP/C537211/1. I was working on a number of problems related to the integration of knowledge representation formalisms (such as description logics) with conventional data management systems (such as relational databases).

March 2002 – January 2006. Research staff at the Forschungszentrum Informatik (Research Center for Information Technologies), Karlsruhe, Germany. I worked on my PhD thesis [150], as well as on the following research projects:

- January 2004 – January 2006: DIP, EU IST 507483. I developed the KAON2 ontology management tool, which I also used in my PhD thesis.
- September 2003 – December 2003: Semantic Web-enabled Web Services (SWWS), EU IST 2001-37134. I worked on the discovery of Web services.
- March 2002 – December 2003: Ontologging, EU IST 2000-28293. I developed the open-source KAON¹ ontology management suite. This was the precursor to the KAON2 tool that I developed as part of my PhD research.

¹<http://kaon.semanticweb.org/>

April 2001 – December 2001. Senior Developer/Team Leader, Vision GmbH, Munich, Germany (working in a subsidiary in Zagreb, Croatia). I was a leader of a team of five developers working in the Croatian subsidiary of Vision. We were responsible for numerous modules in the Vision’s product suite, such as a Web application for management of newspaper advertisements and tools for management of the publishing process. I advised the others on the issues of object-oriented design and was myself mainly working on a client application for Vision’s Production Server—the system for the management of the publication process. The projects required knowledge of Java, Swing, XML, and Web application development.

March 2000 – March 2001. Software Developer, Trilogy, Austin, Texas, USA.

- I worked in a team of two developers on the requirements gathering and design of an automated build system. We applied the PSP/TSP project management methodology.
- I worked in a team of four developers on a client application for the management of corporate data. I developed a generic GUI framework and applied it to a pricing information maintenance subsystem, and I also took part in HCI design. The project required knowledge of Java and Swing.
- I worked alone on reengineering the C++ version of the pricing engine and implementing it in Java. The product was integrated into Trilogy’s product suite and successfully deployed at several customers. The project required knowledge of database technologies (SQL, JDBC) and profiling techniques (OptimizeIt).

February 1996 – February 2000. I worked as a teaching assistant at the Polytechnic School of Zagreb, Croatia, where I participated in lecturing the following subjects: Electronic Components, Electronic Circuits, and Fundamentals of Electrical Engineering.

June 1989 – February 2000. During high school and undergraduate studies, I worked for a small company developing accounting database applications in Clipper/DBASE. After graduating from university, I started my own small company called “Infimum” that further developed and maintained these applications. My programs were installed in numerous small and medium-sized companies in Croatia, such as The Plitvice Lakes National Park.² The work required extensive interaction with clients and strong organisation skills. I shut down the company before I had left for USA.

Freelance Software Projects

Parallel to my regular employment, I worked on several software projects on a freelance basis.

January 2002 – February 2002. Croatian Mine Action Center, Zagreb, Croatia, working on the EU-sponsored project “Airborne Minefield Area Reduction (ARC)”, EU-IST-2000-25300. I developed a real-time image acquisition system for high-resolution cameras. The work required careful code optimisation and knowledge of C++, MFC, and Windows 98/2000. I was the only designer and programmer.

²<http://www.np-plitvicka-jezera.hr/>

September 1998 – February 2000. Vision GmbH, Munich, Germany. I was the only software designer and developer on several projects.

- Process manager for Fast-CGI (FCGI) protocol and FCGI client extensions for IIS and Apache Web servers. The project required knowledge of C++, Windows NT, Solaris, Linux, TCP/IP, and network programming.
- Validating XML Editor. The project required knowledge of Windows NT, MFC, C++, and XML.
- An XML-to-PDF converter that reads XML and renders it into a PDF file. The project required knowledge of advanced 2D computer graphics, C++, and Windows NT.

May 1998 – February 1999. VideoCon GmbH, Munich, Germany. I worked in a team of several developers on the following components of a remote surveillance system:

- Windows 9x/NT based user interface (C++, MFC),
- optimisation and reengineering of image decoder,
- reengineering of communication module for ISDN and TCP/IP, and
- COM library allowing access to various components from Visual Basic.

This was a technically demanding project (especially the communication module) because of the multiplatform development (servers on Linux and clients on Windows9x/NT), requiring a detailed knowledge of networking. Apart from the image decoder, I was the primary architect and author of the mentioned modules.

June 1998 – August 1998. Cromerica (a USA-based company with a subsidiary in Zagreb, Croatia). I designed and implemented a COM interface for a fax server. I worked alone and have used C++ and ATL.

January 1998 – May 1998. I worked in a team of two developers on a program for designing stamps. The project required intimate knowledge of 2D computer graphics, MFC, C++, and Windows 95.

Professional Expertise

Programming languages: C/C++, Java, SQL/OQL, Pascal, Clipper, Fortran, JavaScript

Operating systems: Windows 9x/NT/XP (with excellent knowledge of Win32 API),
Unix (Linux and Solaris) with reasonable knowledge of
Unix APIs

Technologies: MFC, COM, TCP/IP, ATL, CORBA, JDBC, Servlets, JSP,
ISAPI, XML, databases, Swing, UML

Methodologies: Rational Unified Process, Personal Software Process,
Team Software Process, Design Patterns

In 1997, with Julijan Šribar as a coauthor, I published in Croatia a book called *C++ Demystified* [149]. The book presents the ins and outs of the C++ language, and it also provides a brief introduction to object-oriented design and methodology. It was voted the best software engineering book published in Croatia in 1997 by the Croatian IT magazine Bug.³ Ever since the first edition was published, the book has been used at several Croatian universities as a textbook for courses on C++ and programming.

Research-Related Information

Research Funding as Principal Investigator

- AnaLOG: Datalog Extensions for the Analysis of Static and Streaming Data; Engineering and Physical Sciences Research Council (EPSRC) EP/P025943/1; £639,838; from 1/4/2018 to 31/3/2021. This an extension of the MaSI³ Early Career fellowship funded myself and one research assistant.
- Oracle External Research Office grant; £55,088.90. This is an unrestricted grant whose goal is to support my research and foster collaboration with Oracle.
- Knowledge Exchange Seed Fund; £5,000.
- Personalised Broadcasting Policy Management using Semantic Technologies; Engineering and Physical Sciences Research Council (EPSRC) Impact Acceleration Account (IAA) EP/K503769/1; £53,786; from 1/1/2016 to 31/12/2016. This project funded one research assistant.
- RDFox: A Parallel, Scalable, Main-Memory Database; Engineering and Physical Sciences Research Council (EPSRC) Impact Acceleration Account (IAA) EP/K503769/1; £30,268.96; from 1/4/2015 to 20/9/2015. This project funded one research assistant.
- MaSI³: A Massively Scalable Intelligent Information Infrastructure; Engineering and Physical Sciences Research Council (EPSRC) EP/K00607X/1; £817,862; from 1/1/2013 to 31/12/2017. This Early Career fellowship funded myself and one research assistant.

Research Funding as Leading Proposal Author

- ExODA: Integrating Description Logics and Database Technologies for Expressive Ontology-Based Data Access; Engineering and Physical Sciences Research Council (EPSRC) EP/H051511/1; £704,521; from 1/4/2011 to 31/3/2014. Although I was officially a co-investigator, I was the leading proposal author and, together with Prof Ian Horrocks, I managed the project on a day-to-day basis. The project funded three research assistants.
- HermiT: Reasoning with Large Ontologies; Engineering and Physical Sciences Research Council (EPSRC) EP/F065841/1; £480,412; from 15/8/2008 to 14/2/2012. I was a named researcher on the project since the grant was awarded before I got my academic post; however, I wrote the proposal and managed the project on a day-to-day basis. The project funded two research assistants.

³<http://www.bug.hr/>

- ReaSem: Practical Reasoning Support for Semantic Technologies; Deutsche Forschungsgemeinschaft (DFG); €210,000; from 1/6/2006 to 30/11/2009. I was the co-author of the proposal and the project funded one research assistant.

Research Funding as Co-Investigator

- ED³: Enabling Analytics over Diverse Distributed Datasources; Engineering and Physical Sciences Research Council (EPSRC) EP/N014359/1; £866,527; from 1/2/2016 to 31/1/2019. The project is funding two research assistants.
- DBOnto: Bridging Databases and Ontologies; Engineering and Physical Sciences Research Council (EPSRC) EP/L012138/1; £1,263,746; from 29/1/2014 to 28/1/2019. This is a platform grant.
- Optique: Scalable End-user Access to Big Data; European Commission (EC) 318338; €841,929; from 1/11/2012 to 31/10/2016. The project is funding two research assistants.
- Score!: Scalable and Complete Reasoning with Incomplete Ontology Reasoners; Engineering and Physical Sciences Research Council (EPSRC) EP/J020214/1; £555,708; from 7/1/2013 to 6/1/2016. The project funded two research assistants.
- ConDOR: Consequence-Driven Ontology Reasoning; Engineering and Physical Sciences Research Council (EPSRC) EP/G02085X/1; £359,707; from 1/7/2009 to 30/6/2012. The project funded a research assistant and a PhD student.

Work on International Standards

I have made numerous key technical contributions to the Web Ontology Language (OWL) 2 published by the World Wide Web Consortium,⁴ and am one of the editors on five main technical documents.

- [1] Boris Motik, Peter F. Patel-Schneider, and Bijan Parsia. OWL 2 Web Ontology Language: Structural Specification and Functional-Style Syntax, 27 October 2009. W3C Recommendation.
- [2] Peter F. Patel-Schneider and Boris Motik. OWL 2 Web Ontology Language: Mapping to RDF Graphs, 27 October 2009. W3C Recommendation.
- [3] Boris Motik, Peter F. Patel-Schneider, and Bernardo Cuenca Grau. OWL 2 Web Ontology Language: Direct Semantics, 27 October 2009. W3C Recommendation.
- [4] Boris Motik, Bernardo Cuenca Grau, Ian Horrocks, Zhe Wu, Achille Fokoue, and Carsten Lutz. OWL 2 Web Ontology Language: Profiles, 27 October 2009. W3C Recommendation.
- [5] Boris Motik, Bijan Parsia, and Peter F. Patel-Schneider. OWL 2 Web Ontology Language: XML Serialization, 27 October 2009. W3C Recommendation.

⁴<http://www.w3.org/TR/owl-overview/>

Patents

- *Parallel materialisation of a set of logical rules on a logical database.* Boris Motik, Yavor Nenov, Ian Horrocks. Filed October 31, 2013. US Patent Number 3,063,670
- *Natural Language Question Answering System and Method Based on Deep Semantics.* Boris Motik, Sergio Antonio Berná Niñerola, Pablo Castellanos Garcia, Carlos González-Cadenas. Filed June 28, 2011. US Patent Number 2011/0320,187
- *Method and apparatus for efficient delta pricing.* Thomas J. Carter III, Meetesh M. Karia, August R. Buerkle, Boris Motik, Ramanathan Ramadass, Reuben Swartz. US Patent 9,519,907 B2

Invited Presentations

- *A Survey of Incremental Reasoning Algorithms for Datalog Variants.* Invited talk at the 2016 Stream Reasoning Workshop, December 8, 2016, Berlin, Germany
- *RDFox—A Modern Materialisation-Based RDF System.* Invited talk at the 10th Int. Workshop on Scalable Semantic Web Knowledge Base Systems (SSWS 2014), October 20, 2014, Riva del Garda, Trentino, Italy
- *Building an Efficient OWL 2 DL Reasoner.* Invited talk at the 3rd Workshop on Practical Aspects of Automated Reasoning (PAAR 2012), June 30, 2012, Manchester, UK
- *Parameterized Complexity and Fixed-Parameter Tractability of Description Logic Reasoning.* Invited talk at the 18th Int. Conference on Logic for Programming Artificial Intelligence and Reasoning (LPAR 2012), March 10–15, 2012, Mérida, Venezuela
- *Combining Description Logics, Description Graphs, and Rules.* Invited talk at the 18th Int. Conference on Conceptual Structures (ICCS 2010), July 26–30, 2010, Kuching, Malaysia
- *Combining Description Logics, Description Graphs, and Rules.* Invited talk at the 7th Int. Symposium on Frontiers of Combining Systems (FroCoS 2009), September 16–18, 2009, Trento, Italy
- *Semantics and Reasoning Algorithms for a Faithful Integration of Description Logics and Rules.* Keynote speech at the 2008 Int. Conf. on Web Reasoning and Rule Systems (RR 2008), October 31–November 2, 2008, Karlsruhe, Germany
- *SPARQL, Rules and OWL?* Panel at the OWL: Experiences and Directions Workshop 2007 (OWLED 2007), June 6–7, 2007, Innsbruck, Austria
- *Adding Constraints to OWL.* Invited talk at the 2nd Int. Workshop on Scalable Semantic Web Knowledge Base Systems (SSWS 2006), November 5, 2006, Athens, GA, USA
- *My Top Ten Things To Do for more Empirically Successful Computerized Reasoning.* Panel at the Workshop on Empirically Successful Computerized Reasoning, August 21, 2006, Seattle, WA, USA

- *Integrating DLs with Logic Programming*. Invited talk at the Workshop on Model Checking and Semantic Web Rule Languages, October 27–28, 2006, Freiburg, Germany
- *Description Logics and Disjunctive Datalog—More Than just a Fleeting Resemblance?* Invited talk at 4th Workshop on Methods for Modalities (M4M-4), December 1–2, 2005, Berlin, Germany

Reviewing Activities

I was a program committee member at the following conferences and workshops:

- The Stream Reasoning Workshop (SR 2021), October 4–6, 2021, Milan, Italy
- Senior Program Committee Member at The 20th Int. Semantic Web Conference (ISWC 2021), October 24–28, 2021, Virtual Conference
- Senior Program Committee Member at The 30th Int. Joint Conference on Artificial Intelligence (IJCAI 2021), August 21–26, 2021, Montreal, QC, Canada
- Program Committee Member of the Demonstrations Track at The 35th AAAI Conference on Artificial Intelligence (AAAI 2021), February 2–9, 2021, Virtual Conference
- Program Committee Member of the Applied Research Track at The 29th ACM Int. Conf. on Information and Knowledge Management (CIKM 2020), October 19–23, 2020, Galway, Ireland
- Senior Program Committee Member of the Research Track at the 19th Int. Semantic Web Conference (ISWC 2020), November 2–6, 2020, Athens, Greece
- The 4th Int. Joint Conf. on Rules and Reasoning (RuleML+RR 2020), Industry Track, June 23–July 1, 2020, Oslo, Norway
- Workshop on Scalable Knowledge Base Engineering (SKALE 2020) at ISWC 2020, November 2–6, 2015, Athens, Greece
- The 13th Int. Workshop on Scalable Semantic Web Knowledge Base Systems (SSWS 2020) at ISWC 2020, November 2–6, 2015, Athens, Greece
- Senior Program Committee Member at The 29th Int. Joint Conf. on Artificial Intelligence and the 17th Pacific Rim Int. Conf. on Artificial Intelligence (IJCAI-PRICAI 2020), July 11–17, 2020, Yokohama, Japan
- Senior Program Committee Member at The 24th European Conference on Artificial Intelligence (ECAI 2020), June 8–12, 2020, Santiago de Compostela, Spain
- Senior Program Committee Member of the Research Track and a Program Committee Member of the Demonstrations Track at The 34th AAAI Conference on Artificial Intelligence (AAAI 2020), February 7–12, 2020, New York, NY, USA
- Program Committee Member at The 28th Int. Joint Conference on Artificial Intelligence (IJCAI 2019), August 10–16, 2019, Macao, China

- The 33rd AAAI Conference on Artificial Intelligence (AAAI 2019), January 27–February 1, 2019, Honolulu, HI, USA
- The 17th Int. Semantic Web Conference (ISWC 2018), Doctoral Consortium, October 8–12, 2018, Monterey, CA, USA
- Program Committee Member at The 27th Int. Joint Conference on Artificial Intelligence (IJCAI 2018), July 13–19, 2017, Stockholm, Sweden
- The 32nd AAAI Conference on Artificial Intelligence (AAAI 2018), February 2–7, 2018, New Orleans, LA, USA
- The 16th Int. Semantic Web Conference (ISWC 2017), In-Use Track, Industry Track, and Doctoral Consortium, October 21–25, 2017, Vienna, Austria
- Program Committee Member at The 26th Int. Joint Conference on Artificial Intelligence (IJCAI 2017), August 19–25, 2017, Melbourne, Vic, Australia
- The 30th Int. Workshop on Description Logics (DL 2017), July 18–21, 2017, Montpellier, France
- TABLEAUX 2017, September 25–29, 2017, Brasília, Brasil
- The 31st AAAI Conference on Artificial Intelligence (AAAI 2017), February 4–9, 2017, San Francisco, CA, USA
- The 15th Int. Semantic Web Conference (ISWC 2016), October 17–21, 2016, Kobe, Japan
- The Stream Reasoning Workshop (SR 2016) at ISWC 2016, October 17–18, 2016, Kobe, Japan
- Doctoral Consortium at the 15th Int. Semantic Web Conference (ISWC 2016), October 17–21, 2016, Kobe, Japan
- The 30th AAAI Conference on Artificial Intelligence (AAAI 2016), February 12–17, 2016, Phoenix, AZ, USA
- The 11th Int. Workshop on Scalable Semantic Web Knowledge Base Systems (SSWS 2015) at ISWC 2015, October 11–15, 2015, Bethlehem, PA, USA
- The 14th Int. Semantic Web Conference (ISWC 2015), October 11–15, 2015, Bethlehem, PA, USA
- The 9th Int. Conference on Web Reasoning and Rule Systems (RR 2015), August 4–6, 2015, Berlin, Germany
- Program Committee Member at The 24th Int. Joint Conference on Artificial Intelligence (IJCAI 2015), July 25–31, 2015, Buenos Aires, Argentina
- TABLEAUX 2015, September 15–19, 2015, Wroclaw, Poland

- The 29th AAAI Conference on Artificial Intelligence (AAAI 2015), January 25–29, 2015, Austin, TX, USA
- The 21st European Conference on Artificial Intelligence (ECAI 2014), August 18–22, 2014, Prague, Czech Republic
- The 8th Int. Conference on Web Reasoning and Rule Systems (RR 2014), September 15–17, 2014, Athens, Greece
- The 14th Int. Conference on Knowledge Representation and Reasoning (KR 2014), July 20–24, 2014, Vienna, Austria
- The 12th Int. Semantic Web Conference (ISWC 2013), October 21–25, 2013, Sydney, NSW, Australia
- The 22nd Int. World Wide Web conference (WWW 2013), May 13–17, 2013, Rio de Janeiro, Brazil
- Senior Program Committee Member at The 23rd Int. Joint Conference on Artificial Intelligence (IJCAI 2013), August 3–9, 2013, Beijing, China
- External Review Committee Member at The 32nd ACM SIGACT-SIGMOD-SIGART Symposium on Principles of Database Systems (PODS 2013), June 23–28, 2013, New York, NY, USA
- The 10th IEEE Consumer Communications and Networking Conference (IEEE 2013), January 11–14, 2013, Las Vegas, NV, USA
- OWL: Experiences and Directions (OWLED 2012), Workshop at ESWC 2012, May 27–28, 2012, Heraklion, Crete
- The 25th Int. Workshop on Description Logics (DL 2012), June 7–10, 2012, Rome, Italy
- The 20th European Conference on Artificial Intelligence (ECAI 2012), August 27–31, 2012, Montpellier, France
- External Review Committee Member at The 31st ACM SIGACT-SIGMOD-SIGART Symposium on Principles of Database Systems (PODS 2012), May 20–25, 2012, Scottsdale, AZ, USA
- The 21st Int. World Wide Web conference (WWW 2012), April 16–20, 2012, Lyon, France
- The 10th Int. Semantic Web Conference (ISWC 2011), October 23–27, 2011, Bonn, Germany
- The 19th Int. Conference on Conceptual Structures (ICCS 2011), July 25–29, 2011, Derby, UK
- The 5th Int. Conference on Web Reasoning and Rule Systems (RR 2011), August 29–30, 2011, Galway, Ireland

- The 24th Int. Workshop on Description Logics (DL 2011), July 13–16, 2011, Barcelona, Spain
- The 22nd Int. Joint Conference on Artificial Intelligence (IJCAI 2011), July 16–22, 2011, Barcelona, Spain
- The 4th Int. Conference on Web Reasoning and Rule Systems (RR 2010), September 22–24, 2010, Brixen–Bressanone, Italy
- The 23rd Int. Workshop on Description Logics (DL 2010), May 4–7, 2010, Waterloo, ON, Canada
- The 19th European Conference on Artificial Intelligence (ECAI 2010), August 16–20, 2010, Lisbon, Portugal
- The 7th Extended Semantic Web Conference (ESWC 2010), May 30–June 3, 2010, Heraklion, Greece
- The 24th AAAI Conference on Artificial Intelligence (AAAI 2010), July 11–15, 2010, Atlanta, GA, USA
- The 19th Int. World Wide Web Conference (WWW 2010), April 26–30, 2009, Raleigh, NC, USA
- The 5th Int. Workshop on Scalable Semantic Web Knowledge Base Systems (SSWS 2009) at ISWC 2009, October 25–29, 2009, Washington DC, USA
- The 8th Int. Semantic Web Conference (ISWC 2009), October 25–29, 2009, Washington DC, USA
- The 21st Int. Joint Conference on Artificial Intelligence (IJCAI 2009), July 11–17, 2009, Pasadena, CA, USA
- The 18th Int. World Wide Web conference (WWW 2009), April 20–24, 2009, Madrid, Spain
- OWL: Experiences and Directions (OWLED 2008 EU), Workshop at ISWC 2008, October 26–27, 2008, Karlsruhe, Germany
- The 7th Int. Semantic Web Conference (ISWC 2008), October 26–30, 2008, Karlsruhe, Germany
- The 4th Int. Workshop on Scalable Semantic Web Knowledge Base Systems (SSWS 2008) at ISWC 2008, October 26–30, 2008, Karlsruhe, Germany
- Workshop on Practical Aspects of Automated Reasoning (PAAR 2008), August 10, 2008, Sydney, Australia
- The 2nd Int. Conference on Web Reasoning and Rule Systems (RR 2008), October 31–November 2, 2008, Karlsruhe, Germany

- The 18th European Conference on Artificial Intelligence (ECAI 2008), July 21–25, 2008, Patras, Greece
- The 23rd AAAI Conference on Artificial Intelligence (AAAI 2008), July 13–17, 2008, Chicago, IL, USA
- The 5th Int. European Semantic Web Conference (ESWC 2008), June 1–5, 2008, Tenerife, Spain
- The 3rd Int. Workshop on Scalable Semantic Web Knowledge Base Systems (SSWS 2007) at the OTM conferences, Portugal, November 25–30, 2007, Vilamoura, Algarve
- The 6th Int. Semantic Web Conference (ISWC 2007), November 11–15, 2007, Busan, Korea
- Workshop on Building and Applying Ontologies at the Semantic Web (BAOSW 2007) at the 13th Portuguese Conference on Artificial Intelligence (EPIA 2007), December 3–3, Guimarães, Portugal
- IEEE/WIC/ACM Int. Joint Conf. on Web Intelligence (WI 2007), November 2–5, 2007, Silicon Valley, USA
- OWL: Experiences and Directions (OWLED 2007), Workshop at ESWC 2007, June 6–7, 2007, Innsbruck, Austria
- The 6th Int. Conf. on Ontologies, DataBases, and Applications of Semantics (ODBASE 2007), October 28–November 2, 2007, Spain
- The 4th Int. European Semantic Web Conference (ESWC 2007), June 3–7, 2007, Innsbruck, Austria
- Reviewer at The 20th Int. Joint Conference on Artificial Intelligence (IJCAI 2007), January 6–12, 2007, Hyderabad, India
- The 2nd Int. Workshop on Scalable Semantic Web Knowledge Base Systems (SSWS 2006), November 5, 2006, Athens, GA, USA
- The 2nd Int. Workshop on Meta-modelling and Ontologies (WoMM 2006), October 12–13, 2006, Karlsruhe, Germany
- The 2nd Int. Conference on Rules and Rule Markup Languages for the semantic Web (RuleML 2006), November 9–10, 2006, Athens, GA, USA
- OWL: Experiences and Directions (OWLED 2006), Workshop at ISWC 2006, November 10–11, 2006, Athens, GA, USA
- The 5th Int. Semantic Web Conference (ISWC 2006), November 5–9, 2006, Athens, GA, USA
- The 12th Int. Conf. on Artificial Intelligence: Methodology, Systems, Applications (AIMSA 2006), September 13–15, 2006, Varna, Bulgaria

- Workshop on Reasoning on the Web (RoW2006) at 15th International World Wide Web Conference (WWW 2006), May 22, 2006, Edinburgh, UK
- The 3rd Int. European Semantic Web Conference (ESWC 2006), June 11–14, 2006, Budva, Serbia and Montenegro
- OWL: Experiences and Directions (OWLED 2005), Workshop at ISWC 2005, November 11–12, 2005, Galway, Ireland
- The 4th Int. Semantic Web Conference (ISWC 2005), November 6–10, 2005, Galway, Ireland
- The 4th Int. Conf. on Ontologies, DataBases, and Applications of Semantics (ODBASE 2005), October 31–November 4, 2005, Agia Napa, Cyprus
- Workshop on Building and Applying Ontologies for the Semantic Web (BAOSW 2005) at the 12th Portuguese Conference on Artificial Intelligence (EPIA 2005), December 5–8, Covilhã, Portugal
- Workshop on Protégé with Rules at 8th Int. Protégé Conference, July 18–21, 2005, Madrid, Spain
- IEEE/WIC/ACM Int. Joint Conf. on Web Intelligence (WI 2005), September 19–22, 2005, in Compiègne University of Technology, France
- IADIS Int. Conf. on WWW/Internet (ICWI 2005), October 19–22, 2004, Lisbon, Portugal
- IEEE/WIC/ACM Int. Joint Conf. on Web Intelligence (WI 2004), September 20–24, 2004, Beijing, China
- IADIS Int. Conf. on WWW/Internet (ICWI 2004), October 6–9, 2004, Madrid, Spain
- The 11th Int. Conf. on Artificial Intelligence: Methodology, Systems, Applications (AIMSA 2004), September 2–4, 2004, Varna, Bulgaria
- The 1st Workshop on Ontologies and their Applications, September 28, 2004, São Luís, Maranhão, Brazil

I was also a reviewer for the following journals:

- Artificial Intelligence
- Journal of Artificial Intelligence Research
- Annals of Mathematics and Artificial Intelligence
- ACM Transactions on Databases Systems
- Communications of the ACM
- Journal of Logic and Computation

- IEEE Intelligent Systems
- IEEE Transactions on Knowledge and Data Engineering
- IEEE Internet Computing
- IEEE Access
- Journal of Automated Reasoning
- Journal of Web Semantics
- International Journal on Semantic Web and Information Systems
- AI Communications
- Information Sciences
- Knowledge and Information Systems
- International Journal of Semantic Computing
- Journal of Universal Computer Science
- Journal of Applied Logic
- Journal of Applied Non-Classical Logics
- Journal of Brazilian Computer Society, Special Issue on Ontology Issues and Applications
- Journal on Data Semantics

Organisational Activities

- Member of the organising committee of the workshop on Reasoning about ACtions and Events over Streams (RACES), September 12, 2020, Held Virtually
- Program chair of the 22nd Int. Workshop on Description Logics (DL 2009), July 27–29, 2009, Oxford, UK
- Member of the organising committee of the IJCAI-09 Workshop on Graph Structures for Knowledge Representation and Reasoning (GKR 2009), July 11–13, 2009, Pasadena, CA, USA
- Program chair of the 20th Int. Workshop on Description Logics (DL 2007), June 8–10, 2007, Brixen–Bressanone, Italy

Supervision of PhD Students

I am co-supervising the following PhD students:

- Temitope Ajileye, currently in his 3rd year of study

I have co-supervised the following PhD students in the past:

- Fredah Banda. *Effective Partitioning of RDF for Distributed Query Answering*. PhD awarded in 2021.
- Pan Hu. *Efficient Computation and Maintenance of Datalog Materialisations*. PhD awarded in 2020.
- Anthony Potter. *Query Answering in Distributed RDF Databases*. PhD awarded in 2018.
- Andrew Bate. *Consequence-Based Reasoning for SRIQ Ontologies*. PhD awarded in 2017.
- Giorgio Stefanoni. *Evaluating Conjunctive and Graph Queries over the EL Profile of OWL 2*. PhD awarded in 2015.
- Despoina Magka. *Foundations and Applications of Knowledge Representation for Structured Entities*. PhD awarded in 2013.
- Rob Shearer. *Scalable Reasoning for Description Logics*. PhD awarded in 2011.
- Héctor Pérez-Urbina. *Tractable Query Answering for Description Logics via Query Rewriting*. PhD awarded in 2010.

Supervision of Postdoctoral Researchers and Software Engineers

I am co-supervising the following postdoctoral researcher:

- Pan Hu

I have co-supervised the following postdoctoral researchers in the past:

- Pan Hu
- Robert Piro
- Yavor Nenov
- Giorgio Stefanoni
- Giorgos Stoilos
- Clemens Kupke
- Markus Krötzsch

- Zhe Wang
- Birte Glimm

I have co-supervised the following software engineers:

- Oriol Mazariegos
- Andrei Tuchin

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