Curriculum Vitae

Axel Florian Polleres

February 25, 2024

Prof. Dr. Axel Polleres (http://www.polleres.net/) is a full professor working in the area of Data and Knowledge Engineering at the Institute for Data, Process and Knowledge Management at Vienna University of Economics and Business (WU Wien); he heads WU's Department for Information Systems and Operations Management and is also a faculty member of the Complexity Science Hub Vienna. Axel obtained his Ph.D. (Computer Science, 2003) and Habilitation (venia docendi in the subject of "Information Systems", 2011) from Vienna University of Technology. He further worked at University Innsbruck (2003-2006), at Universidad Rey Juan Carlos, Madrid (2006-2007), and at the Digital Enterprise Research Institute (DERI) at the National University of Ireland, Galway, (2007-2011) as project leader, lecturer and leader of DERI's Semantic Search research stream. Between 2011 and 2013 He worked in Siemens AG's Corporate Technology Research division as senior research scientist, before joining WU Wien; further, in 2018 (Jan-Jun) Axel was appointed Visiting Professor at Standford University, working with the Stanford Center for Biomedical Informatics Research (BMIR). His research focuses on intelligent Data Management, Data Science, Semantic Web and Graph Databases, Artificial Intelligence, Querying on Reasoning about Ontologies and Knowledge Graphs, Logic Programming, Web Services, Knowledge Management, Linked Open Data, Configuration Technologies and their applications. He has worked in several European and national research projects in these areas, has held regular courses at different universities and has supervised students at all levels.

Prof. Polleres has published more than 200 (i.e., currently 230 DBLP listed¹) articles in journals (e.g. in TPLP, JAIR, Artificial Intelligence, ACM TOCL, ACM CSUR, KAIS, IEEE IS, SWJ, JWS, WWWJ, JoDS, etc.), books, conference proceedings (e.g., in WWW, IJCAI, AAAI, ISWC, ESWC, etc.), as workshop contributions and has co-authored a book on Semantic Web Services. His work is highly cited with an h-index of 57.² He has coorganised several international conferences and workshops in the areas of Semantic Web, Data management, Web services, Logic Programming, and related topics and acts as editorial board member for the Semantic Web Journal (IOS) and for Transactions of Graph Data and Knowledge (TGDK). He gave invited talks and keynotes at various renowned institutions and at international conferences, served in programme committees of international conferences such as for instance WWW, IJCAI, AAAI, ISWC, PODS, ESWC. Prof. Polleres is a board member of the Austrian Society for Artificial Intelligence (ASAI). In the past, he represented WU Wien, DERI, and Univ. of Insbruck in W3C's Advisory Committee and actively contributed to international standardization efforts in different W3C working groups, including acting as a co-chair of the W3C SPARQL working group.

¹cf. https://dblp.org/pid/p/AxelPolleres.html

²according to Google Scholar (https://scholar.google.com/citations?user=R-SmVOYAAAAJ)

1 Personal Data

September 1984 – June 1992:

Degrees: Date and Place of Birth: Citizenship: Family Status: Current Position:	 Dr.techn. (PhD), Diplom-Ingenieur (MSc) 24. March 1974, Vienna, Austria Austrian married, two daughters Full Professor for Data and Knowledge Engineering. Head of the Department of Information Systems and Operations Management, Vienna University of Economics & Business (WU Wien)
Office and Mailing Address:	WU Wien - Building D2, 3rd floor Welthandelsplatz 1 1020 Vienna, Austria
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	+43-1-31336-739
E-mail:	axel@polleres.net
Homepage:	http://www.polleres.net/
ORCID:	0000-0001-5670-1146
2 Education	
March 2011:	Habilitation in "Information Systems". Thesis: "Semantic Web Technologies: From Theory to Practice" at Vienna University of Technology,
	external reviewers Prof. Dr. Rudi Studer, Prof. Dr. Steffen Staab, Prof. Dr. Claudio Gutierrez.
October 2003:	
October 2003: June 2001 – September 20	Prof. Dr. Steffen Staab, Prof. Dr. Claudio Gutierrez.PhD in Computer Science (with honors). Thesis:"Advances in Answer Set Planning"supervised by Prof. Dr. Thomas Eiter,second reviewer Prof. Dr. Georg Gottlob.
	 Prof. Dr. Steffen Staab, Prof. Dr. Claudio Gutierrez. PhD in Computer Science (with honors). Thesis: "Advances in Answer Set Planning" supervised by Prof. Dr. Thomas Eiter, second reviewer Prof. Dr. Georg Gottlob. Dostoratsstudium, Studienzweig Informatik (PhD course in Computer Science)
June 2001 – September 20	 Prof. Dr. Steffen Staab, Prof. Dr. Claudio Gutierrez. PhD in Computer Science (with honors). Thesis: "Advances in Answer Set Planning" supervised by Prof. Dr. Thomas Eiter, second reviewer Prof. Dr. Georg Gottlob. Doktoratsstudium, Studienzweig Informatik (PhD course in Computer Science) at Vienna University of Technology. MSc in Computer Science (with honors). Thesis: "The DLV^K System for Planning with Incomplete Knowledge", supervised by Prof. Dr. Thomas Eiter.
June 2001 – September 20 April 2001:	 Prof. Dr. Steffen Staab, Prof. Dr. Claudio Gutierrez. PhD in Computer Science (with honors). Thesis: "Advances in Answer Set Planning" supervised by Prof. Dr. Thomas Eiter, second reviewer Prof. Dr. Georg Gottlob. Doktoratsstudium, Studienzweig Informatik (PhD course in Computer Science) at Vienna University of Technology. MSc in Computer Science (with honors). Thesis: "The DLV^K System for Planning with Incomplete Knowledge", supervised by Prof. Dr. Thomas Eiter. :: Diploma studies in Computer Science

High School Kufstein, Tirol.

September 1980 – June 1984:

3 Career

since January 2023

Head of the Department of Information Systems and Operations Management at Vienna Univ. of Economics and Business (WU Wien).

January 2018 – June 2018

Visiting Professor at The Europe Center of the Freeman Spogli Institute at Stanford University, California, USA.

since January 2017

faculty member of the Complexity Science Hub Vienna.

January 2016-December 2022

Head of Institute at the Institute for Data, Process and Knowledge Management at Vienna Univ. of Economics and Business (WU Wien).

since September 2013

Full Professor at the Institute for Data, Process and Knowledge Management at Vienna Univ. of Economics and Business (WU Wien).

June 2011 – August 2013

Senior Research Scientist at Siemens Corporate Technlogy Research, Siemens AG Österreich, Vienna, Austria.

March 2010 – June 2011

Senior Research fellow, continued leader of the "Semantic Search" research stream, as well as leader of the research unit on "Reasoning and Querying (URQ)" at the Digital Enterprise Research Institute (DERI), at the National University of Ireland, Galway.

October 2010

Guest researcher at the South Andean Center for Database Research (Khipu), cf. http: //www.khipu.cl/, collaborations with Universidad de Chile (Prof. Claudio Gutierrez) and Pontificia Universidad Católica de Chile (Prof. Marcelo Arenas) during this stay. This exchange was funded by the EU's Marie Curie programme under the project "Net²".

March 2009 – February 2010

Promotion to Research Fellow and leader of the "Semantic Search" research stream, as well as leader of the research unit on "Reasoning and Querying (URQ)" at the Digital Enterprise Research Institute (DERI), at the National University of Ireland, Galway.

April 2007 – February 2009

Postdoctoral researcher, adjunct lecturer, and project leader at the Digital Enterprise Research Institute (DERI) Galway, led by Prof. Stefan Decker, at the National University of Ireland, Galway.

February 2006 – May 2007

Research fellowship at Universidad Rey Juan Carlos, Madrid, under a "Juan de la Cierva" grant by the Spanish ministry of education (MEC).

October 2003 – April 2006

Postdoctoral researcher and Lecturer at the Digital Enterprise Research Institute (DERI) Innsbruck, led by Prof. Dieter Fensel at Univ. of Innsbruck. Management of teaching activities of DERI, involvement in several European Research Projects, Advisory Committee member of the W3C, representing DERI Innsbruck.

July – August 2005

Guest researcher at the Knowledge Systems Laboratory (KSL), Stanford University, led by Prof. Dr. Michael Genesereth, at Stanford University, California, USA. Collaboration with Dr. Charles Petrie during this stay.

July – September 2004

Guest researcher at the Digital Enterprise Research Institute (DERI) Galway, led by Prof. Christoph Bussler, at the National University of Ireland, Galway. Collaboration with Prof. Michael Kifer during this stay.

June 2001 – September 2003

Research assistant in the project P14781-INF "A Declarative Planning System Based On Logic Programming", supported by FWF (Austrian Science Funds), at the Institute of Information Systems, Knowledge-Based Systems Group, TU Vienna, led by Prof. Thomas Eiter.

January 1999 – April 2000

Student fellow in the project P11580-MAT "Design and Implementation of a Query System for Disjunctive Deductive Databases", supported by FWF (Austrian Science Funds), at the Institute of Information Systems, Knowledge-Based Systems Group, TU Vienna. The resulting master thesis "The $DLV^{\mathcal{K}}$ System for Planning with Incomplete Knowledge" has been awarded with the "**OCG-Förderpreis**", a prize for outstanding master theses in the field of Computer Science by the Austrian Computer Society.

4 Research Interests

- Data & Knowledge Management
- Databases & Query Languages
- Artificial Intelligence
- Semantic Web, Linked Data & Knowledge Graphs
- Web Technologies & Standards
- Nonmonotonic Reasoning &Logic Programming
- Planning & Configuration

5 Awards and Honors

- Researcher of the Month, November 2021, awarded by Vienna University of Economics and Business, cf. https://www.youtube.com/watch?v=LhBmZUbzuLE
- Stanford University Distinguished Visiting Austrian Chair Professorship, awarded by the The Freeman Spogli Institute of International Studies and its Europe Center at Stanford University and the Austrian University Rectors' Conference, January 2018 – June 2018, cf. http://tec.fsi.stanford.edu/docs/distinguished_ visiting_austrian_chair_professors
- **OBD-2015:** Best Paper Award for the paper "Quality assessment & Evolution of Open Data Portals" co-authored with S. Neumaier, and J. Umbrich. This work emerged from a master thesis that I supervised in the course of the OpenData@WU project.
- **RR2010: Best Paper Award** for the paper "*Redundancy Elimination on RDF Graphs in the Presence of Rules, Constraints, and Queries*" co-authored with R. Pichler, S. Skritek and S. Woltran. This work emerged from a collaboration between DERI and TU Vienna.

- ISWC2009 In-Use Track: Best Paper Award for the paper "Produce and consume Linked Data with Drupal!" co-authored with S. Corlosquet, R. Delbru, T. Clark, A. Polleres, and S. Decker. This work emerged from a master thesis that I supervised.
- Juan de la Cierva 2005, Ministerio de Educación y Ciencia, Spain. Postdoctoral research fellowship grant, hosted at the Rey Juan Carlos University, Madrid, Spain.
- **OCG-Förderpreis 2002**: Award for outstanding master theses in the field of Computer Science by the Austrian Computer Society.

Additional nominations for best paper awards: **ESWC2008** (nomination for best paper award), **ISWC2011** (nomination for best paper award), **ISWC2016** (nomination for best student paper award), **CeDEM2017** (nominated for best paper award).

Awards for outstanding theses that I supervised:

- Thomas Weber (BSc): **TALENTA-Award 2021** for outstanding Bachelor theses at Vienna Univ. of Economics and Business (co-supervisor: Sebastian Neumaier)
- Julian Reindorf (MSc): **TALENTA-Award 2018** for outstanding Master theses at Vienna Univ. of Economics and Business
- Christian Bruck (BSc): **TALENTA-Award 2018** for outstanding Bachelor theses at Vienna University of Economics and Business, as well as **UBIT thesis award 2018** (Fachgruppe Unternehmensberater und IT Fachgruppe Wien der Wirtschaftskammer)
- Martin Beno (BSc): **TALENTA-Award 2017** for outstanding Bachelor theses at Vienna Univ. of Economics and Business
- Sebastian Neumaier (MSc): **OCG-Förderpreis 2016** for outstanding master theses in the field of Computer Science by the Austrian Computer Society (OCG).

6 Patents

• "Computer implemented method for integrating data from the Web from different sources by using SPARQL", joint patent with Stefan Bischof, European Patent Office, EP2787453A1, 2014. available at: https://worldwide.espacenet.com/patent/search?q=pn%3DEP2787453A1

7 Teaching Experience and Theses Supervisions

7.1 Selected University Courses

Lecture Courses

• Advanced Business Analytics and Artificial Intelligence, MSc, Vienna Univ. of Economics & Business (WU Wien), summer term 2019.

- Introduction to Artificial Intelligence, BSc, Vienna Univ. of Economics & Business (WU Wien), winter term 2017.
- Data Processing I, BSc, Vienna Univ. of Economics & Business (WU Wien), regularly, since winter term 2016.
- Database Systems, MSc, Vienna Univ. of Economics & Business (WU Wien), regularly, since winter term 2014.
- Data-oriented System Analysis, BSc, Vienna Univ. of Economics & Business (WU Wien), winter term 2013.
- Semantic Web Technologies, Vienna University of Technology, winter term 2009/10, summer term 2012, summer term 2013, winter term 2014/15, summer term 2016.
- Emerging Web Media, National University of Ireland, Galway, autumn 2008 autumn 2009, autumn 2010.
- Advanced Studies in IT: Semantic Web, Lecture, National University of Ireland, Galway, spring 2008.
- Recuperación de Información, Universidad Rey Juan Carlos, summer term 2007.
- Lógica y Metodos Avanzados de Razonamiento (together with Dr. habil. David Pearce), Universidad Rey Juan Carlos, winter term 2006/2007.
- Declarative Programming (together with Nao Hirokawa), Leopold Franzens Universität Innsbruck, winter term 2005/2006.
- Introduction to Artificial Intelligence, Leopold Franzens Universität Innsbruck, summer term 2005.
- Introduction to Logic Programming, Leopold Franzens Universität Innsbruck, winter term 2004/2005.
- Telecooperation, Leopold Franzens Universität Innsbruck, summer term 2004, summer term 2005.

University Seminars

- Doctoral Research Seminar, PhD, Vienna Univ. of Economics & Business (WU Wien), regularly, since winter term 2013, occasionally organised as interdisciplinary seminar on various topics, e.g. together with Prof. Sarah Spiekermann (AI & Ethics, Data Protection), Prof. Kurt Hornik (Data Science and Statistics), Prof. Nadia Abou-Nabout (Data Science and Marketing).
- Forschungsseminar Systemanalyse, BSc, Vienna Univ. of Economics & Business (WU Wien), regularly, winter term 2013.

- Reading Group for PhD Students, Digital Enterprise Research Institute, NUI Galway, 2006.
- Web Services (together with Holger Lausen), Leopold Franzens Universität Innsbruck, winter term 2004/2005.

University Tutorials and Lab course

- Data Science Lab, BSc, Vienna Univ. of Economics & Business (WU Wien), regularly, since summer term 2017.
- Praktikum Semantic Web 2 (together with Dr. Martin Hepp and Dr. Thomas Strang), Leopold Franzens Universität Innsbruck, summer term 2005.
- Praktikum Semantic Web (together with Dr. Ying Ding), Leopold Franzens Universität Innsbruck, winter term 2004/2005.
- Übung Telecooperation, Leopold Franzens Universität Innsbruck, summer term 2004.
- Praktikum Semantic Web (together with Dr. Ying Ding), Leopold Franzens Universität Innsbruck, summer term 2004.
- Übung Logics in Computer Science, Leopold Franzens Universität Innsbruck, summer term 2004.
- Übung Software Engineering I, Leopold Franzens Universität Innsbruck, winter term 2003/2004.

7.2 Selected Industry, Non-University & Post-Graduate Courses

- "Compact Course on Artificial Intelligence" at the Federal Minister for Digital and Economic Affairs of the Republic of Austria (BMDW), in collaboration with WU Executive Academy, December 2019, Vienna, Austria.
- "Data Science Bootcamp" with Raiffeisen Bank International AG (RBI), in collaboration with WU Executive Academy, June 2019, Vienna, Austria.
- Lectures on "Big Data Processing", "Data Governance", and "Artificial Intelligence" within the "Data Science and Digital Transformation" PMBA program (which I codesigned) at WU Executive Academy, since 2017.
- Course on "Semantic Web KR and rule languages" at Ontotext Lab, Sirma Group Corp., February 2007, Sofia, Bulgaria.

7.3 Theses Supervisions and PhD Committee Memberships

PhD Thesis Supervisions – Completed:

- Supervisor of Amr Azzam (jointly with Prof. Maribel Acosta), TU Vienna, PhD topic "Querying Knowledge Graphs at Web Scale", partially funded by the FFG project "CitySpin".
- Supervisor of Giray Havur (jointly with Dr. Cristina Cabanillas), "*Resource Allocation in Business Processes*", PhD thesis, Vienna University of Economics & Business, partially, funded by the FFG project "SHAPE".
- Supervisor of Erwin Filtz (jointly with Dr. Sabrina Kirrana), Vienna University of Economics & Business, "Knowledge Graphs for Analyzing and Searching Legal Data", PhD thesis, partially funded by the FFG project "GraphSense", as well as by Jubiläumsfonds Wien and by the Austrian Federal Minister for Digital and Economic Affairs (BMDW), April 2021.
- Supervisor of Albin Ahmeti, TU Vienna, "Updates in the Context of Ontology-Based Data Management" PhD thesis, funded by TU Vienna PhD School and the WWTF project "SEE", January 2020.
- Supervisor of Sebastian Neumaier, TU Vienna, "Semantic Enrichment of Open Data on the Web - Or: How to build an Open Data Knowledge Graph", PhD thesis, partially funded by the FFG projects "ADEQUATe" and "Communidata", November 2019.
- Supervisor of Svitlana Vakulenko, TU Vienna, "Knowledge-Based Conversational Search", PhD thesis, partially funded by the FFG project "Communidata", November 2019.
- Supervisor of Stefan Bischof, TU Vienna, "Complementary Methods for the Enrichment of Linked Data" PhD thesis, first year funded by the IRCSET Enterprise Partnership programme (co-funded by Alcatel-Lucent/Bell Labs Ireland in 2012), then funded by WWTF and Siemens AG Österreich, November 2017.
- Supervisor of Jürgen Umbrich, NUI Galway, "A Hybrid Framework for Querying Linked Data Dynamically", PhD thesis, funded by the SFI Lion-2 project, November 2012.
- Supervisor of Nuno Lopes, NUI Galway, "Integrating Heterogeneous Data by Extending Semantic Web Standards", PhD thesis, funded by SFI Líon-2 project, November 2012.
- Supervisor of Ratnesh Sahay, NUI Galway, "An Ontological Framework for Interoperability of Health Level Seven (HL7) Applications", PhD thesis, NUI Galway, May 2012.

• Supervisor of Aidan Hogan, "Exploiting RDFS and OWL for Integrating Heterogeneous, Large-Scale, Linked Data Corpora", PhD thesis, NUI Galway, funded by the IRCSET Embark programme, February 2011.

PhD Thesis Supervisions – Ongoing:

- Supervisor of Simon Steyskal, Vienna University of Economics & Business, PhD topic "*Reasoning about Policies and their enforcability*" ongoing (since October 2014), partially funded by the FFG project "SHAPE".
- Supervisor of Bernhard Krabina, Vienna University of Economics & Business, PhD topic "Public data repositories" ongoing (since October 2020).
- Supervisor of Robert David, Vienna University of Economics & Business, PhD topic "Knowledge Graph Analysis and Repair" ongoing (since November 2020).
- Supervisor of Nicolas Ferranti, Vienna University of Economics & Business, since April 2021.
- Supervisor of Stefan Bachhofner, Vienna University of Economics & Business, since January 2021.

PhD Committee memberships:

- Commitee member: Markus Nissl, "Temporal Reasoning in Knowledge Graphs: Artificial Intelligence Systems for Reasoning with Time in Vadalog", PhD thesis, , Vienna University of Vienna University of Technology, September 2023.
- Committee member and reviewer: Julia Litofcenko, "Mapping Civil Society: A political perspective through the lens of automated text analysis", PhD thesis, Vienna University of Economics and Business, July 2023.
- Committee member: Dina Bayomie, "Event Correlation for Process Mining", PhD thesis, Vienna University of Economics and Business, June 2023.
- Committee member and reviewer: Georg Heiler, "Efficient Temporal Graph Analytics: using large scale telecommunication data for mobility modeling and infrastructure maintenance", PhD thesis, Vienna University of Vienna University of Technology, November 2022.
- External Reviewer/Committee Member: Sirko Schindler, "Yavaa: Supporting Data Workflows from Discovery to Visualization", PhD thesis, Friedrich-Schiller-Universität Jena, September 2022.
- External Reviewer/Committee Member: Vivian dos Santos Silva, "A Composite Syntactic-Semantic Interpretable Text Entailment Approach Exploring Commonsense Knowledge Graphs", PhD thesis, Universität Passau, May 2022.

- Committee member: Emilia Kacprzak, "Improving Searchability of Datasets", PhD thesis, University of Southampton, March 2021.
- Referee: Gianluca Cima, "Abstraction in Ontology-based Data Management", PhD thesis, Sapienza Università di Roma, November 2020.
- Committee member: Ahmad Alobaid, "Knowledge-Grapg-Based Semantic Labeling of Tabular Data", PhD Thesis, Universidad Politécnica de Madrid, July 2020.
- Committee member and reviewer: Christian Bors, "Facilitating Data Quality Assessment Utilizing Visual Analytics: Tackling Time, Metrics, Uncertainty, and Provenance", PhD thesis, Vienna University of Vienna University of Technology, February 2020 (supervisor: Prof. Silvia Miksch).
- External Reviewer/Committee Member: Hoan Nguyen Mau Quoc, "A Scalable Spatiotemporal Query Processing for Linked Sensor Data", PhD Thesis, National University of Ireland Galway (NUIG), 2019 (supervisors: Prof. John Breslin, Dr. Danh Le Phuoc).
- External Reviewer: Dörthe Arndt, "Notation3 as the Unifying Logic of the Semantic Web", PhD Thesis, Ghent University, 2019 (supervisors: Prof. E. Mannens, Prof. R. Verborgh, Prof. T. Schrijvers)
- Committee member: Stefan Adelsberger, "A Formal Verification Framework for Object-Based Programming in Agda", PhD thesis, Vienna University of Economics and Business, July 2018 (supervisor: Prof. Gustaf Neumann).
- External Reviewer/Committee Member: Wouter Beek, "The 'K' in 'Semantic Web' Stands for 'Knowledge", PhD Thesis, VU Amsterdam, the Netherlands, 2018 (supervisor: Prof. Frank van Harmelen).
- External Reviewer/Committee Member: Tobias Käfer, "Behaviour on Linked Data", PhD Thesis, Karlsruhe Institute for Technologie (KIT), 2018 (supervisor: Prof. York Sure-Vetter).
- Committee member: Maulik Kamdar, "A Web-Based Integration Framework over Heterogeneous Biomedical Data and Knowledge Sources", PhD Thesis, Stanford University, June 2018 (supervisor: Prof. Mark Musen).
- Committee member: Feng Tian, "An Information System For Food Safety Monitoring in Supply Chains based on HACCP, Blockchain and Internet of Things", PhD thesis, Vienna University of Economics and Business, February 2018 (supervisor: Prof. Alfred Taudes).
- External Reviewer/Committee Member: Fadi Maali, "Distributed Dataflow Processing of Large RDF Graphs", PhD Thesis, National University of Ireland Galway (NUIG), 2016 (supervisor: Prof. Stefan Decker).

- External Reviewer: Daniele Dell'Aglio, "On Unified Stream Reasoning", PhD Thesis, Politecnico di Milano, 2016 (supervisor: Prof. Emanuele Della Valle).
- External Reviewer : Daniel Gerber, "Statistical Extraction of Multilingual Natural Language Patterns for RDF Predicates: Algorithms and Applications", PhD thesis, Universität Leipzig, February 2016 (supervisors: Prof. Klaus-Peter Fähnrich, Dr. Axel-Cyrille Ngonga Ngomo).
- Committee member: José Mora Lopez, "Query Rewriting Optimisation Techniques for Ontology-Based Data Access", PhD thesis, Universidad Politécnica de Madrid (UPM), Spain, December 2015 (supervisor: Prof. Oscar Corcho).
- Committee member: Fabian Pittke, "Linguistic Refactoring of Business Process Models", PhD thesis, Vienna University of Economics and Business, November 2015 (supervisor: Prof. Jan Mendling).
- External Reviewer: Yujiao Zhuo, "PAGOdA: Pay-as-you-go Ontology Query Answering Using a Datalog Reasoner", PhD thesis, University of Oxford, October 2015 (supervisors: Prof. Ian Horrocks, Prof. Bernardo Cuenca Grau).
- External Reviewer/Committee Member: Philipp Stutz, "Scalable Graph Processing with Signal/Collect", PhD thesis, University of Zürich, Switzerland, May 2015 (supervisor: Prof. Abrahamn Bernstein).
- External Reviewer/Committee Member: Anna Ryabokon, "KNOWLEDGE-BASED (RE)CONFIGURATION OF COMPLEX PRODUCTS AND SERVICES", PhD thesis, University of Klagenfurt, Austria, April 2015 (supervisor: Prof: Gerhard Friedrich).
- External Reviewer/Committee Member: Christian Mader, "Supporting Web Vocabulary Development by automated Quality Checks", PhD thesis, University of Vienna, July 2015 (Prof. Wolfgang Klas).
- External Reviewer/Committee Member: Benedikt Kämpgen, "Flexible Integration and Efficient Analysis of Multidimensional Datasets from the Web", PhD thesis, Karlsruhe Institute of Technology (KIT), Germany, February 2015 (supervisor: Prof. Rudi Studer).
- External Reviewer/Committee Member: Melisachew Wudage Chekol, "Static Analysis of Semantic Web Queries", PhD thesis, Université de Grenoble, France, December 2012 (supervisors: Prof. Jerome Euzenat, Prof. Nabil Layaida).
- Committee member: Ramón Hermoso, "*El concepto de confianza en sistemas organizativos: un enfoque de coordinación para agentes software*", PhD thesis, Universidad Rey Juan Carlos, Móstoles, Spain, February 2011 (Prof. Sascha Ossowski).
- External reviewer: Renzo Angles, "Modelos de Base de Datos de Grafo y RDF (Graph Database Models supporting RDF)", PhD thesis, Universidad de Chile, Santiago, Chile, August 2009 (Prof. Claudio Gutierrez).

- Committee member: Alberto Fernandez Gíl, "Descripción, Descubrimiento y Composición de Servicios en Entornos Multiagente Abiertos. Un Enfoque Organizacional", PhD thesis, Universidad Rey Juan Carlos, Móstoles, Spain, November 2007 (Prof. Sascha Ossowski).
- Committee member: Rubén Lara Hernandez, "A Flexible Model for the Semi-Automatic Location of Services", PhD thesis, Universidad Autonoma de Madrid, Spain, October 2007 (Prof. Pablo Castells).

Selected Supervised Bachelor and Master Theses

- Thomas Weber, "Open Dataset Archive Scalable dataset crawling with efficient archiving and the investigation of changes between versions", bachelor thesis Vienna University of Economics & Business, September 2020 (awarded with the **TALENTA-Award 2021** for outstanding Bachelor theses at Vienna University of Economics and Business), co-supervised with Sebastian Neumaier.
- Christian Bruck, "Challenges and opportunities of Data Governance in private and public organizations", bachelor thesis Vienna Univ. of Economics & Business, October 2017 (awarded with the **TALENTA Award 2018** for outstanding bachelor theses at Vienna Univ. of Economics & Business).
- Julian Reindorf, "HDT Quads: Compressed Triple Store for Linked Data", master thesis Vienna Univ. of Economics & Business, September 2017 (awarded with the TALENTA Award 2018 for outstanding master theses at Vienna Univ. of Economics & Business).
- Martin Beno, "Open Data Hopes and Fears Determining the barriers of Open Data", bachelor thesis Vienna Univ. of Economics & Business, July 2016 (awarded with the **TALENTA Award 2016** for outstanding bachelor theses at Vienna Univ. of Economics & Business).
- Stefan Bauer, "Evaluation of Search Engines in the Context of RIS", master thesis, Vienna Univ. of Economic & Business, April 2016.
- Alexander Wurl, "Formalisms and Tools to Describe and Monitor Engineering Processes", master thesis, Technische Universität Wien, December 2015.
- Sebastian Neumaier, "Open Data Quality: Assessment and Evolution of (Meta-)Data Quality in the Open Data Landscape", master thesis, Technische Universität Wien, October 2015 (awarded with the **OCG-Förderpreis 2016** for outstanding master theses in the field of Computer Science by the Austrian Computer Society).
- Christoph Martin, "Predicting Missing Values in the Context of an Open City Data Pipeline", master thesis, Vienna Univ. of Economic & Business, January 2015.
- Simon Steyskal, "Towards an Alternative Approach for Combining Ontology Matchers", master thesis, Technische Universität Wien, November 2013.

- Stefan Bischof, "Implementation and Optimisation of Queries in XSPARQL", master thesis, Technische Universität Wien, November 2010.
- Stepháne Corlosquet, "Bootstrapping the Web of Data with Drupal", master thesis, National University of Ireland, Galway, August 2009.
- Gennaro Frazzingaro, "Implementing and extending SPARQL with DLVHEX", tesi di laurea (bachelor thesis), Universit'a della Calabria, October 2007.
- Jan Koeppen, "Development of a Framework for Semantic Web Applications", proyecto fin de carera (master thesis), Universidad Rey Juan Carlos, September 2007.
- Doris Silbernagl, "Reasoning with Ontologies A prototypical implementation of an ontology reasoner based on WSML", bachelor thesis, Leopold Franzens Universität Innsbruck, October 2005.
- Thomas Haselwanter, "*WSMX Core A JMX Microkernel*", bachelor thesis, Leopold Franzens Universität Innsbruck, October 2005.
- Manuela Weitlaner, "*WIKI-Engines*", bachelor thesis, Leopold Franzens Universität Innsbruck, April 2005.
- Katharina Siorpaes, "Development of Web Services including the comparison of the tools JWSDP and Axis", bachelor thesis, Leopold Franzens Universität Innsbruck, March 2005.
- Stefan Kirchmair "Dynamische Webseiten und Kommunikationsmethoden", bachelor thesis, Leopold Franzens Universität Innsbruck, September 2004.

7.4 Habilitation and Appointment Committee memberships

- Member of the habilitation committee: Florian Kragulj, "The Need Knowledge-driven Organization: A Framework From Organizational Purpose to Strategy", Habilitation-sschrift, Vienna University of Economics & Business, 2021.
- Chair of the appointment committee for the chair "Information Systems and Businesse Engineering" at Vienna Univ. of Economics and Business (WU Wien), 2021.
- Member in appointment committee for two Assistant Professorships in Computer Science in "Databases" & "Computer Vision" at Univ. of St. Gallen, Switzerland, 2021.
- Member of the habilitation committee: Antoine Zimmermann, "Interoperability for the Semantic Web: A Loosely Coupled Mediation Approach", HDR (Habilitation à diriger des recherches) thesis, École Nationale Supérieure des Mines de Saint-Etienne, France, February 2021.
- Member of the habilitation committee: Maria Magdalena Ortiz de la Fuente, Vienna University of Technology, November 2020.

- External reviewer for the appointment committee (Berufungskommission) for the chair "Datenmanagement" at University of Chemnitz, 2020.
- Member of the appointment committee (Berufungskommission) for the chair "Distributed Ledgers and Token Economy" at Vienna Univ. of Economics and Business (WU Wien), 2019.
- External reviewer for the appointment committee (Berufungskommission) for the chair "Business Analytics and Data Science" at University of Graz, 2019.
- External Reviewer in habilitation committee: Axel-Cyrille Ngonga Ngomo, "Link Discovery: Algorithms and Applications", Habilitaionsschrift, Universität Leipzig, June 2017.
- External Reviewer in habilitation committee: Andreas Harth, "Link Traversal and Reasoning in Dynamic Linked Data Knowledge Bases", Habilitationsschrift, Karlsruhe Institute of Technology (KIT), Germany, May 2016.
- Chair of the habilitation comittee: Gerhard Wohlgenannt, "Automatisierte Generierung von Wissensmodellen inklusive deren betriebswirtschaftliche Aspekte und Anwendungen", Habilitationsschrift, Vienna University of Economics & Business, 2016.

8 University Administration, Curriculum and Course Program Development

- Program director of the Master Program "Digital Economy" at Vienna University of Economics and Business (WU Wien), since 2021.
- Program director of the Professional MBA Program "Digital Transformation & Data Science" at WU Executive Academy, since 2019.
- Member of the task force for teaching evalutaion ("AG Instrument Evaluierung neu") at Vienna University of Economics and Business (WU Wien), 2019.
- Program director of the Short Programme "Data Science" at WU Executive Academy, since 2017.
- Program director of the undergraduate specialization (SBWL) "Data Science" within the BSC program of Vienna University of Economics and Business (WU Wien), since 2016.
- Member of the Senate's commission for finance and campus management ("Kommission fuür Finanzen und Campusmanagement") at Vienna University of Economics and Business (WU Wien), since 2016.

9 Activities in the Scientific Community

9.1 Project Participations and Funding Acquisition

- 1. "FAIR-AI: Fostering Austria's Innovative Strength and Research excellence in Artificial Intelligence" (accepted, planned start: Dec. 2023-Nov. 2026), a research project funded by the Austrian Research Promotion Agency (FFG), coordinated by AIT, total budget: 3M €, WU budget: 165.500 €, *Role:* project partner.
- "Collaborative Knowledge Management through Knowledge Graphs" (accepted, planned start: Dec. 2023-Nov. 2026, a research project funded by Jubiläumsfonds der Stadt Wien, 19.400 €, Role: coordinator.
- 3. Endowement Professorship "DSus2: Data Ecosystems for Environmental Accountability": Prof. Kavita Surana', co-funded by the Austrian Research Promotion Agency (FFG), "OBB, and Verbund AG ' starting October 2023, total budget: 3M €(FFG funding: 1.5M €), *Role:* proposal coordinator and chair of the selection committee.
- "Crisis Response and Intervention Supported by Semantic Data Pooling (CRISP)" (2021-2023), a research project funded by the Austrian Research Promotion Agency (FFG), coordinated by WebLyzard, total budget: 872K €, CSH budget: 215K €, Role: project partner (in my role as faculty member of the Complexity Science Hub Vienna CSH).
- 5. COST Action CA19134 "Distributed Knowledge Graphs" (2020-2024), Management Commitee member, *Role:* Action Vice Chair.
- 6. "TEAMING.AI Human-AI Teaming Platform for Maintaining and evolving AI Systems in Manufacturing" (2021-2023), Research and Innovation Action funded by the EU Horizon 2020 programme, coordinated by SCCH, total budget: 5.7M €, funding WU: 530K EUR, *Role:* project partner.
- 7. "KnowGraphs Knowledge Graphs at Scale" (2019-2023), MSCA-ITN-ETN funded by the EU Horizon 2020 programme, coordinated by University of Paderborn, total budget: 3.87M €, WU funding: 528K €, *Role:* ESR supervisor.
- 8. "AI@WORK Human Centered AI in Digitized Working Environments" (2019-2020), research project funded by the Austrian Research Promotion Agency (FFG), coordinated by SCCH, total budget: 256K €, funding WU: 14K EUR, *Role:* project partner.
- "SPECIAL Scalable Policy-awarE linked data arChitecture for prIvacy, trAnsparency and compLiance" (2017-2019), Research and Innovation Action funded by the EU Horizon 2020 programme, coordinated by ERCIM, total budget: 3.99M €, WU funging: 650K €, *Role:* project partner.
- 10. "CommuniData Open Data for Local Communities" (2016-2019), a research project funded by the Austrian Research Promotion Agency (FFG), coordinated by WU Wien, total funding: 772K €, WU funding: 290K €, *Role:* co-coordinator.

- 11. "Expedite EXPloring opportunities and challenges for Emerging personal DaTa Ecosystems: Empowering humans in the age of the GDPR" (2018-2020), a research project funded by the Austrian Research Promotion Agency (FFG), coordinated by WU Wien, total funding, 192K €, WU funding: 76K €, *Role:* advisor of the coordinator and involvement in proposal writing.
- 12. "CitySpin Cyber-Physical Social Systems for City-wide Infrastructures" (2017-2020), a research project funded by the Austrian Research Promotion Agency (FFG), coordinated by TU Vienna, total funding: 628K €, WU funding: 167K €, *Role:* project partner.
- 13. "DALICC Data Licenses Clearance Centre" (2016-2019), a research project funded by the Austrian Research Promotion Agency (FFG), coordinated by TU Vienna, total funding: 504K €, WU funding: 100K €, *Role:* project partner.
- 14. "PROPEL: Propelling the potential of Enterprise Linked Data in Austria" (November 2015 October 2016), a pilot project, funded by the Austrian Research Promotion Agency (FFG), total 214K €, funding WU: 49K €, *Role:* project partner.
- 15. "GraphSense: Realtime Anomaly Detection in Virtual and Non-Virtual Currency Networks" *Role:* (September 2015 August 2017), a research project funded by the Austrian Research Promotion Agency (FFG), coordinated by AIT, total budget: 871K €, funding WU: 111K EUR, *Role:* project partner.
- 16. "ADEQUATe: Analytics & Data Enrichment to improve the QUAliTy of Open Data" (October 2015 – March 2018), a research project funded by the Austrian Research Promotion Agency (FFG), coordinated by Semantic Web Company, total budget: 521K €, funding WU: 160K EUR, *Role:* project partner.
- 17. "SHAPE: Safety-critical Human- & dAta-centric Process management in Engineering projects" (October 2014 March 2017), a research project funded by the Austrian Research Promotion Agency(FFG), coordinated by WU with Siemens as industry partner, total budget: 783K €funding WU: 394K €, *Role:* coordinator.
- Lise-Meitner postdoc project "Querying Archives of Dynamic Linked Open Data" funded by the Austrian Science Fund (FWF) for Javier Fernandez Garcia (2015-2017), *Role:* mentor.
- 19. "SEE: SPARQL Evaluation and Extensions", a project funded within the ICT Call 2012 of the Vienna Science and Technology Fund (WWTF Wiener Wissenschafts-, Forschungs- und Technologiefonds), in collaboration with TU Vienna as coordinator, project start: Sept. 2012, duration 3 years (total budget 500K €, funding WU: 90K €); Joint proposal with Prof. Pichler), TU Vienna. *Role:* collaborator and supervisor of a PhD.
- 20. "Net² A Network for Enabling Networked Knowledge", an International Research Staff Exchange Scheme (IRSES) in EU FP7 funded under the Marie Curie programme

which will fund research exchanges between international research institutions worldwide (South America, South Africa, China, Europe), 2010–2013, *Role:* coordinator.

- 21. Goverment of Ireland PhD Fellowship in Science, Engineering and Technology (IRC-SET/Enterprise Partnership Program) of Stefan Bischof, 2010–2013, *Role:* coordinator/co-supervisor, co-funded by Alcatel-Lucent (the student continued under my supervision under a PhD grant from Siemens AG Österreich since 2012).
- 22. Goverment of Ireland PhD Fellowship in Science, Engineering and Technology (IRC-SET/EMBARK) of Philipp Obermeier, 2009–2012, *Role:* coordinator/co-supervisor (together with Prof. Manfred Hauswirth).
- 23. Government of Ireland Postdoctoral Fellowship in Science, Engineering and Technology (IRCSET/EMPOWER) of Dr. Gergely Lukácsy, 2009–2010, *Role:* mentor.
- 24. SFI CSET project Líon-2 (2009-2012), *Role:* co-PI, leader of the research unit on "Reasoning and Querying (URQ)", as well as leader of the "Semantic Search" research stream (total budget 15M €, ca. 600K €for URQ).
- 25. Government of Ireland PhD Fellowship in Science, Engineering and Technology (IRC-SET/EMBARK) of Aidan Hogan, 2008–2011, *Role:* coordinator/supervisor.
- 26. COST Action IC0801, "Agreement Technologies" (2008–2012), Management Commitee member, *Role:* WG leader.
- 27. European IST Specific Targeted Research Project (IST FP6–034718), "inContext: Interaction and Context Based Technologies for Collaborative Teams" (May 2006 – January 2009), *Role:* responsible researcher for DERI Galway.
- 28. Programa de Cooperación Interuniversitaria e Investigación Científica entre España y los países de Iberoamérica: Research project together with Universidad Simón Bolivar, Caracas, Venezuela, funded by the Spanish Agencia Española de Cooperación Internacional (AECI): "Mecanismos de Optimización y Evaluación para consultar eficientemente la Web Semántica en la Administración Pública Electrónica" (March 2007 March 2008), Role project coordinator (funding: 15.500 €).
- 29. Research project funded by Universidad Rey Juan Carlos & Comunidad de Madrid (URJC-CM-2006-CET-0300): "Web Semántica para Organizaciones y Servicos (SWOS)", January 2007– October 2008, *Role* project coordinator (funding: 20.000 €).
- 30. European IST Specific Targeted Research Project (IST FP6-027324), "TripCom: Triple Space Communication" (April 2006 March 2009), *Role:* coordination during proposal phase (Total Budget: 4.75M €, EU funding: 3.65M €), affiliate researcher until end of 2006.
- European IST Network of Excellence (IST FP6–507482) "Knowledge Web" (January 2004 – January 2007), *Role:* senior researcher 2004–2005, non-funded member since 2006–2007.

- 32. "BIT (Bolzano Innsbruck Trento) Joint School for Information Technology" (since 2003), *Role:* coordinator Innsbruck 2004–2005.
- 33. FWF Forschungsprojekt (research project funded by the Austrian Science Funds) at the TU Vienna: "An Answer Set Programming Framework for Reactive Planning and Execution Monitoring (P16536-INF)" (October 2003 – October 2006), *Role:* consultancy during project proposal phase 2003.
- 34. FWF Forschungsprojekt (research project funded by the Austrian Science Funds) at the TU Vienna: "A Declarative Planning System Based On Logic Programming (P14781-INF)". (2001–2003), *Role:* research assistant 2001–2003.
- 35. FWF Forschungsprojekt (research project funded by the Austrian Science Funds) at the TU Vienna: "Design and Implementation of a Query System for Disjunctive Deductive Databases (P11580-MAT)". (1999-2001), *Role:* student fellow 1999–2000.

9.2 Selected Talks, Panels, and Tutorials

- "Build a better life by translating problems to Datalog and ASP", invited talk at Workshop on Trends and Applications of Answer Set Programming (TAASP2022), Vienna, Austria, November 2022, see http://www.kr.tuwien.ac.at/events/taasp22/ index.html
- "Explainable Data Ecosystems as a prerequisite for Explainable AI" invited talk at the Siemens Product Configuration Symposium, organized by Siemens AG Austria, Vienna, September 2021.
- Invited Webinar "From Open Data Portals to Open Data-Ecosystems Experiences and Thoughts on how to proceed from monitoring and analyzing Open Data Portals" in the Series "THE FUTURE OF OPEN DATA PORTALS" organized by the European Open Data Portal, January 2021, see https://european-data-portal. gitlab.io/future-open-data-portals/webinars/7-axel-polleres/
- Invited Talk "AI aus Perspektive der Wirtschaftsinformatik" at the IP-Day 2019, September 2019, Wirtschaftsuniversität Wien.
- Keynote "How do Linked Data, Open Data, and Knowledge Graphs interplay?" at the 30th International Conference on Database and Expert Systems Applications -DEXA 2019, August 2019, Linz, Austria.
- Tutor at the International Semantic Web Research Summer School (ISWS), June 30 –July 6, 2019. Bertinoro, Italy
- Invited Talk "The non-existing LOD-Cloud and how it could be finally (re-)created" at the Mini-Symposium "Contemporary Challenges in Linked Data Research and Practice", June 2018, VU Amsterdam, NL.

- Invited Talk on "Building and Using an Open Knowledge Graph for and from Open Data", May 2018, THINKLab Distinguished Speaker Series, IBM Almaden Research Center, CA, USA.
- Invited Talk "Digital Transformation of Democracy? Challenges and Opportunities", May 2018, at The Europe Center (TEC), Stanford University, CA, USA, see https:// tec.fsi.stanford.edu/events/digital-transformation-democracy-challenges-and-opportunities.
- Invited Talk "Metadata Quality: Learning from Portalwatch", at the LD4P workshop, May 2018, at Stanford University, CA, USA, see https://wiki.duraspace.org/ display/LD4P/LD4+Workshop+2018.
- Invited Talk "Digital Transformation of Democracy? Challenges and Opportunities" at the Austrian Studies Conference Authoritarianism and Democracy: Austria, Germany and Europe (1918-2018), April 2018, University of California, Berkeley, CA, USA, see https://ies.berkeley.edu/austrian-studies-conference.
- "Data Integration for (Linked?) Open Data on the Web", talk at the Protégé Group Research Meetings, at the Biomedical Informatics Research Center, February 2018, Stanford University, CA, USA.
- Lecture on "Challenges for Semantic Data Integration on the Web of Open Data" at the Reasoning Web 2017 Summer School, July 2017, London, UK, see http://reasoningweb.org/2017/.
- Keynote speaker "Open Data as the fuel for Cognitive Computing" at the Kick-off event for the Digital Information Management Community Austria (DIMCA2017), March 2017, organized by Bundesrechenzentrum (BRZ) Austria.
- Keynote speaker, "(Enterprise) Linked Data: What's missing?" at the International Conference on Knowledge Engineering and Semantic Web (KESW 2016), Sep 2016, Czech Republic.
- Tutor at the 12th Summer School on Ontology Engineering and the Semantic Web (SSSW'16), 17-23 July, 2015. Bertinoro, Italy.
- Keynote speaker "On Archiving Linked and Open Data" at the 2nd Workshop on Managing the Evolution and Preservation of the Data Web (MEPDaW 2016), colocated with ESWC2016, May 2016, Heraklion, Crete.
- Invited Talk: "Integrating Open Data: (How) Can Description Logics Help me?" at the CSWR Second Annual Workshop, Pontífica Universidad Católica de Chile, January 2016, Santiago, Chile.
- Invited Seminar "SPARQL1.1 Updates and Entailment Why the specification is silent about their interaction" at the Computer Science Department of University of Oxford, December 2015, Oxford, United Kingdom.

- Invited Talk "Integrating Open Data: (How) Can Description Logics & Ontological Reasoning Help me?" at the INSIGHT Centre for Data Analytics, Nationalt University of Ireland, Galway, August 2015, Galway, Ireland.
- Tutor at the 11th Summer School on Ontology Engineering and the Semantic Web (SSSW'15), 5 11 July, 2015. Bertinoro, Italy.
- Keynote speaker, "Integrating Open Data: (How) Can Description Logics Help me?" at the 28th International Workshop on Description Logics, June 2015, Athens, Greece.
- Invited Talk "Open Data How can you use Open Data?" at the IDC Data Hub Conference, May 2015, Vienna, Austria.
- Invited Talk "SPARQL1.1 Updates and Entailment Why the specification is silent about their interaction" at the Karlsruhe Service Summit Workshop, February 2015, Karlsruhe, Germany.
- Invited Talk "Web Standards and Technical Challenges for Publishing and Processing Data on the Web" at the IKT Trends 2020 Series event on the topic of "Web Science" organized by the Austrian Computer Society (OCG), September 2014, Vienna, Austria.
- Lecture on "Querying the Web of Data with SPARQL and XSPARQL" at the Web Intelligence Summer School 2014, St. Etienne, France.
- Invited Talk "Web Standards and Technical Challenges for Publishing and Processing Open Data" at the IDC Data Hub Conference, June 2014, Vienna, Austria.
- Presentation "City Data Pipeline A report about experiences from using Open Data to gather indicators of city performance " at the European Data Forum (EDF2014), Athens, Greece.
- Invited Seminar "How (well) do Datalog, SPARQL, and RIF interplay?", Informatik-Kolloquium, December 2013, University of Innsbruck, Austria.
- Best Practice Talk "Weaving a Web of Actions Beschreibung und Ausführung datenorientierter Prozesse und Dienste im Web", PzM Summit (Prozessmanagement-Kongress), November 2013, Vienna, Austria.
- Inaugural lecture (Antrittsvorlesung) "From SQL to SPARQL", WU Wien, November 2013, Vienna, Austria.
- Half day tutorial on "RDFS & OWL Reasoning for Linked Data" at the Reasoning Web Summer School 2013, Mannheim, Germany.
- Keynote "OWL vs. Linked Data: Experiences and Directions", at the 10th OWL: Experiences and Directions Workshop (OWLED 2013), May, 2013, Montpellier, France.

- Invited Tutorial "How (well) do Datalog, SPARQL, and RIF interplay?" at the second Datalog 2.0 workshop, September 2012, Vienna, Austria.
- Tutorial "Querying and Exchanging XML and RDF on the Web" at the 21st World Wide Web Conference (WWW2012)), April 2012, Lyon, France.
- "Four years into SPARQL, what's next?", Plenary Keynote Speaker at PAAMS'12, March 2012, Salamanca, Spain.
- Tutorial "Transforming between RDF and XML with XSPARQL" at the 2011 Semantic Technology conference (SemTech2011), San Francisco, CA.
- "SPARQL1.1: An introduction", October 2010, invited seminar, Universidad de Chile, Santiago, Chile.
- "Semantic Web Technologies: From Theory to Standards", October 2010, invited seminar (given in Spanish) at Univseridad de Talca, Chile.
- Invited Tutorial on "SPARQL 1.1" at RR2010, the 4th International Conference on Web Reasoning and Rule Systems (RR2010), September 2010, Bressanone/Brixen, Italy.
- Invited Tutorial on "Logics and Logic Programming in the Semantic Web" at CILC 2010, the Italian Conference on Computational Logic, July 2010, University of Calabria, Italy.
- Keynote speaker at the International Conference on Intelligent Semantic Web Services and Applications (ISWSA 2010), June 2010, Amman, Jordan, see http://iswsa2010.ipu.edu.jo/index.php?c=speak.htm
- Half-Day Tutorial "Scalable OWL Reasoning for Linked Data" at the 7th European Semantic Web Conference (ESWC 2010), June 2010, Heraklion, Greece.
- Presentation on "Using Datalog for Rule-Based Reasoning over Web Data: Challenges and Next Steps" at the Datalog 2.0 workshop, Magdalen College, Oxford, UK.
- "Linked Broken Data?", November 2009, invited seminar at Unverersity of Aberdeen, UK.
- Invited Demo "Semantic Search for CMS" at the IKS Workshop "Semantic Search -Fact and Fiction", November, 2009, Rome, Italy.
- Invited talk "Linked Broken Data?" at the 5th International Workshop on Automated Specification and Verification of Web Systems (WWV'09), Castle of Hagenberg, July 2009, Austria.
- Panelist at the "Agreement Technologies" panel at the Sixth European Workshop on Multi-Agent Systems (EUMAS 2008), December 2008, Bath, UK, see http:// eumas08.cs.bath.ac.uk/

- Invited Talk "That's the Semantic Web Using RIF and SPARQL to aggregate Linked Open Data" at Guardian Developer Network, October 2008, London, UK.
- Keynote speech "Using/Extending RIF and SPARQL to navigate Linked Open Data" at the Xinnovations PhD workshop, September 2008, Berlin, Germany, see http://www.xinnovations.de/sti-berlin-phd-workshop.html
- Lecture on "Rules and Ontologies for the Web" at the Reasoning Web 2008 Summer School, September 2008, Venice, Italy, see http://reasoningweb.org/2008/.
- Panelist at the Darklight and Digital Media Forum Symposium "Web 3.0: Where Next For The Internet?", June 2008, Darklight Film Festial, Dublin, Ireland, see http://www.darklight.ie/pages/talks.htm
- "Where is the Semantic Web?", February 2008, invited seminar at Universidad Simón Bolívar, Caracas, Venezuela.
- "An Introduction to Answer Set Programming", February 2008, half day tutorial at Universidad Simón Bolívar, Caracas, Venezuela.
- "Next Steps on SPARQL", January 2008, invited seminar at the University of Calabria, Cosenza, Italy.
- "Next Steps on SPARQL", January 2008, invited seminar at the University of Bozen-Bolzano, Italy.
- Lecture on "Rule Interchange on the Web" at the Reasoning Web 2007 Summer School, September 2007, Dresden, Germany, see http://reasoningweb.org/2007/
- Invited Talk on "Rule Interchange on the Web" at the European Business Rules Conference (EBRC 07), June 2007, Düsseldorf, Germany, see http://www.eurobizrules. org/.
- "Evaluating SPARQL++ preliminary results", June 2007, Vienna University of Technology, Austria.
- Full-Day Tutorial "SPARQL Where are we? Current state, theory and practice" at the 4th European Semantic Web Conference (ESWC 2007), June 2007, Innsbruck, Austria, see http://www.polleres.net/sparqltutorial/
- Full-Day Tutorial "Answer Set Programming for the Semantic Web" at the 3rd European Semantic Web Conference (ESWC 2006), June 2006, Budva, Montenegro, see http://www.eswc2006.org/tutorials.html#tutorial1
- "Ontology and rule languages for the Web", March 2006, Universidade da Coruña, Spain.
- "Why we need another rule language for the Web?", August 2005, SRI International, Menlo Park, CA, USA, see http://www.ai.sri.com/seminars/

- "Current Efforts towards Semantic Web Services (SWS): OWL-S and WSMO", March 2005, University of Bozen-Bolzano (BIT Seminar), Italy.
- "Current Efforts towards Semantic Web Services (SWS): OWL-S and WSMO", November 2004, Vienna University of Technology, Austria.
- "AI Planning for Web Service Composition", September 2004, ILOG, Paris, France.
- "Planning under Uncertainty with Action Languages A Logic Programming Approach", February 2004, ITC-IRST Trento, Italy.

9.3 Conferences & Workshops Organised

- Social Event Chair at the IJCAI-ECAI-2022, see https://ijcai-22.org/
- Track co-chair of the "Semantics and Knowledge" track at the "The ACM Web Conference 2022 (TheWebConf 2022)", see https://www2022.thewebconf.org/
- Area Chair for "Semantic Technologies" at the 24th European Conference on Artificial Intelligence (ECAI2020), see http://ecai2020.eu/
- In-Use Track co-chair of the "19th International Semantic Web Conference (ISWC2020)", see http://iswc2020.semanticweb.org/
- Local Chair and Program Co-Chair of the Austrian Computer Science Day (ACSD) 2019, in Vienna Austria, see http://acsd2019.ai.wu.ac.at/
- Co-organizer of the Dagstuhl Seminar 18371 on "Knowledge Graphs: New Directions for Knowledge Representation on the Semantic Web", 9-14 September 2018, see https://www.dagstuhl.de/en/program/calendar/semhp/?semnr=18371
- Chair of the Local Organisation Committee of the 16th International Semantic Web Conference ISWC2017, in Vienna, Austria, see http://iswc2017.ai.wu.ac.at/
- Track chair of the "Semantic Web and Linked Data (Linking data)" track of the 28th ACM Conference on Hypertext and Social Media (HT2017) Prague, Czech Republic, see https://ht.acm.org/ht2017/
- General Chair & Local Organiser of the 11th SEMANTICS Conference (SEMAN-TiCS2015), Vienna in Austria, see http://www.semantics.cc/was-semantics-2015
- Track chair of the "AI and the Web" track of the 29th AAAI Conference on Artificial Intelligence (AAAI-15), see http://www.aaai.org/Conferences/AAAI/2015/aaai15aiweb.php
- Semantic Data Management Track co-chair of the "12th ESWC (ESWC2015)", see 2015.eswc-conferences.org/

- General chair of the "8th International Conference on Web Reasoning and Rule Systems (RR2014)", see http://www.rr-conference.org/RR2014/
- Semantic Web and Linked Open Data for E-Business Track co-chair of the "15th International Conference on Electronic Commerce and Web Technologies (EC-WEB 2014)", see http://www.ebusiness-unibw.org/events/ecweb2014/
- Industry Track co-chair of the "13th International Semantic Web Conference (ISWC2014)", see http://iswc2014.semanticweb.org/
- Semantic Data Management Track co-chair of the "10th ESWC (ESWC2013)", see 2013.eswc-conferences.org/
- Program co-chair of the "9th Extended Semantic Web Conference (ESWC2012)", see http://2012.eswc-conferences.org/
- Track chair of the "Semantic Web" track at the "21st World Wide Web Conference (WWW2012)", see http://www.wwwconference.org/www2012/
- Local organizer of the "5th International Conference on Web Reasoning and Rule Systems (RR2011)", see http://www.rr-conference.org/RR2011/.
- Local organizer of the "7th Reasoning Web Summer School (RW2011)", see http: //reasoningweb.org/2011/
- Semantic Data Management Track co-chair of the "8th Extended Semantic Web Conference (ESWC2011)", see http://www.eswc2011.org/
- Poster and Demonstration Track co-chair of the "9th International Semantic Web Conference (ISWC2010)", see http://iswc2010.semanticweb.org/
- Metadata co-chair of the "3rd Future Internet Symposium 2010 (FIS2010)", see http: //www.fis2010.org/
- Program co-chair of the "3rd International Conference on Web Reasoning and Rule Systems (RR2009)", see http://www.rr-conference.org/RR2009/
- Co-organizer of the workshop on "Trust and Privacy on the Social and Semantic Web SPOT2009", held in conjunction with the 6th Annual European Semantic Web Conference (ESWC2009), Heraklion, Greece, June 2009, see http://spot2009.semanticweb.org/
- Co-organizer of the the MALLOW workshop on "Coordination, Organization, Institutions and Norms in agent systems and on-line communities (COIN)" Torino, Italy, September 2009, see http://www.cs.bath.ac.uk/coin-at-mallow-2009/
- Co-organizer of the "3rd Workshop on Applications of Logic Programming in the (Semantic) Web and Web Services (ALPSWS2008)" held in conjunction with the 24th International Conference on Logic Programming (ICLP 2008), Udine, Italy, December 2008, see http://www.kr.tuwien.ac.at/events/alpsws2008/

- Co-organizer of the "Workshop on Personal Identification and Collaborations: Knowledge Mediation and Extraction (PICKME 2008)", held in concjunction with ISWC 2008 in Karlsruhe, Germany, see http://www.expertfinder.info/pickme2008
- Steering Committee member of the "2nd International Workshop SMR2 2008 on Service Matchmaking and Resource Retrieval in the Semantic Web (SMR² 2008)", held in concjunction with ISWC 2008 in Karlsruhe, Germany, see http://www-ags.dfki.uni-sb.de/~klusch/smr2-08/index.html
- Panel co-chair of the "2008 International RuleML Symposium on Rule Interchange and Applications (RuleML-2008)", Orlando, Florida, October 2008, see http://2008.ruleml.org
- Program Co-chair of the "12fth International Workshop on Cooperative Information Agents (CIA 2008)", CzechTechnical University, Prague, Czech Republic, September 2008, see http://www-ags.dfki.uni-sb.de/~klusch/cia2008/
- Co-organizer of the "Workshop on Service Matchmaking and Resource Retrieval in the Semantic Web (SMR²)" held in conjunction with ISWC 2007 in Busan, Korea, November 2007, see http://www-ags.dfki.uni-sb.de/~klusch/smr2/
- Co-organizer of the "2nd Workshop on Applications of Logic Programming in the (Semantic) Web and Web Services (ALPSWS2007)" held in conjunction with the International Conference on Logic Programming (ICLP2007), Porto, Portugal, September 2007, see http://www.bd.cesma.usb.ve/alpsws07/
- Sponsor Chair of the "European Semantic Web Conferences 2007 (ESWC'07)", Innsbruck, Austria, June 2007, see http://www.eswc2007.org
- Organizer of the project workshop "Query Optimization for the Semantic Web", at Universidad Rey Juan Carlos, Madrid, Spain, May 2007; supported by the Spanish AECI under the project "Mecanismos de Optimización y Evaluación para consultar eficientemente la Web Semántica en la Administración Pública Electrónica", see http: //www.polleres.net/SWQueryOptWS
- Co-organizer of the workshop on "Correspondence and Equivalence for Nonmonotonic Theories (CENT2007)" held in conjunction with the Ninth International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR 2007), Tempe, AZ, May 2007, see http://www.kr.tuwien.ac.at/cent2007/
- Main organizer of the "1st ExpertFinder Workshop" co-located with the KnowledgeWeb General Assembly, Berlin, Germany, January 2007, see http://lsdis.cs. uga.edu/~aleman/efw2007/
- Main organizer of the "Workshop on Applications of Logic Programming in the Semantic Web and Semantic Web Services (ALPSWS2006)" held in conjunction with the Federated Logic Conference (FLOC2006), Seattle, Washington, USA, August, 2006, see http://events.deri.at/alpsws2006/

- Co-organizer of the "First International Workshop on Mediation in Semantic Web Services (MEDIATE 2005)" held in conjunction with the 3rd International Conference on Service Oriented Computing (ICSOC 2005), Amsterdam, The Netherlands, December 2005, see http://events.deri.at/mediate2005/
- Local organizer of the "W3C Workshop on Frameworks for Semantics in Web Services", Innsbruck, Austria, June 2005, see http://www.w3.org/2005/01/ws-swsf-cfp. html

9.4 Referee Activities for Journals and Conferences

Journals and Magazines Editorial Board Memberships and Guest Editorship

- Associate Editor for *Transactions of Graph Data and Knowledge* (TGDK), since February 2023.
- Editorial Board member of *Semantic Web Journal (SWJ)*, published by IOS Press, since January 2010.
- Area Editor for the *Journal of Web Semantics (JWS)*, published by Elsevier, January 2015 March 2023.
- Editorial Board member of International Journal On Semantic Web and Information Systems (IJSWIS), published by IGI Global, October 2012 January 2016.
- Guest editor of a Special Issue (Volume 18, Issue 4) on "Computational Ethics and Accountability" for ACM Transactions on Internet Technology (TOIT), November 2018.
- Guest editor of a Special Issue (Volume 7, Issue 3) on "The Web of Data" for the *Journal of Web Semantics (JWS)*, September 2009.
- Area editor for "Database & Semantic Web" of the *ALP Newsletter*, the electronic newsletter of the Association for Logic Programming, since 2006–2013.

Referee for Other Journals and Books

- ACM Transactions on Database Systems (TODS)
- Handbook of Research on Emerging Rule-Based Languages and Technologies: Open Solutions and Approaches
- Knowledge and Information Systems (KAIS)
- AI Communications, The European Journal on Artificial Intelligence (AICom)
- Information Processing & Management (IP&M)
- Journal of Artificial Intelligence Research (JAIR)

- Computational Intelligence Journal (CI)
- Referee for the Data and Knowledge Engineering Journal (DKE)
- International Journal of Cooperative Information Systems (IJCIS)
- IEEE Transactions of Data and Knowledge Engineering (TKDE)
- World Wide Web Journal (WWWJ)
- Journal of Web Services Research (JWSR)
- Journal of Web Semantics (JWS)
- International Journal of Electronic Commerce (IJEC)
- Theory and Practice of Logic Programming (TPLP)
- Journal of Data Semantics (JoDS)
- IEEE Intelligent Systems (IEEE IS)
- Transactions on Advanced Research (IPSI BgD Journals)

Program Committee Memberships for Workshops and Conferences

- 26th European Conference on Artificial Intelligence (ECAI-2023), Senior Meta-Reviewer, see https://ecai2023.eu/
- European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECMLPKDD2023), program committee member, see https://2023.ecmlpkdd.org/
- ESWC2023, senior PC member of the research track, see http://2023.eswc-conferences.org/
- 7th Workshop on Storing, Querying and Benchmarking Knowledge Graphs at ISWC 2023, PC member, see https://sites.google.com/view/quweda2023
- 21st International Semantic Web Conference (ISWC 2022), see https://iswc2022. semanticweb.org/, program committee of the Research Track
- 36th AAAI Conference on Artificial Intelligence (AAAI2022), see https://aaai.org/ Conferences/AAAI-22/
- 35th AAAI Conference on Artificial Intelligence (AAAI2021), see https://aaai.org/ Conferences/AAAI-21/
- 20th International Semantic Web Conference (ISWC 2021), see https://iswc2021. semanticweb.org/, senior program committee of the Research Track

- The Web Conference 2020, see https://www2020.thewebconf.org/
- A Decentralised Web Workshop 2020 (co-located with the Web Conference 2020), see https://adecentweb.org/a-decentralised-web-workshop-2020/
- 34th AAAI Conference on Artificial Intelligence (AAAI-20), see https://aaai.org/ Conferences/AAAI-20/
- IJCAI-2019, the 28th International Joint Conference on Artificial Intelligence, see http://ijcai-19.org/
- International Symposium on Practical Aspects of Declarative Languages (PADL 2019), see https://popl19.sigplan.org/track/PADL-2019
- SEMANTICS 2018 Conference, see https://2018.semantics.cc/
- Reasoning Web summer School 2018 (RW2018), scientific advisory board of the school program, see http://2018.ruleml-rr.org/rw.html
- 17th International Semantic Web Conference (ISWC 2018), see http://iswc2018. semanticweb.org/, program committee of the Doctoral Consortium
- 15th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR 2019), see https://sites.sju.edu/lpnmr/
- 21st International Conference on Knowledge Engineering and Knowledge Management (EKAW 2018), see http://ekaw.org/
- 29th ACM Conference on Hypertext and Social Media (HT2018), see https://ht.acm.org/ht2018/
- IJCAI-ECAI 2018, the 27th International Joint Conference on Artificial Intelligence and the 23rd European Conference on Artificial Intelligence, see http://www.ijcai-18. org/
- ACM Web Science Conference (WebSci '17), see http://www.websci17.org/
- 1st Conference on Language, Data and Knowledge (LDK), see http://ldk2017.org/
- 26th International World Wide Web Conference (WWW2017), see http://www2017.com.au)
- 15th International Semantic Web Conference (ISWC 2016), see http://iswc2016. semanticweb.org/, senior program committee member research track
- 20th International Conference on Knowledge Engineering and Knowledge Management (EKAW 2016)
- WebSci16 (Web Science 2016), see http://www.websci16.org/

- 15th International Conference on Principles of Knowledge Representation and Reasoning (KR2016), see http://www.kr.org/KR2016/
- AMW 2016 Alberto Mendelzon International Workshop on Foundations of Data Management, see http://www.amw-rdm.org/
- 25th International World Wide Web Conference (WWW2016), see http://www2016.ca/
- 24th International Joint Conference on Artificial Intelligence (IJCAI-15), senior program committee member, see http://ijcai15.org/
- 14th International Semantic Web Conference (ISWC 2015), see http://iswc2015. semanticweb.org/, senior program committee member research track
- 24th International World Wide Web Conference (WWW2015), see http://www2015. it/
- OrdRing 2014 2nd International Workshop on Ordering and Reasoning, see http: //www.streamreasoning.org/events/ordring2014
- 2014 IEEE/WIC/ACM International Conference on Web Intelligence (WI 2014), see http://wic2014.mimuw.edu.pl/
- 21st European Conference on Artificial Intelligence (ECAI 2014), senior program committee member, see http://www.ecai2014.org/
- ESWC2014, see http://2014.eswc-conferences.org/
- 28th AAAI Conference on Artificial Intelligence (AAAI-14), see http://www.aaai. org/Conferences/AAAI/aaai14.php
- 12th International Semantic Web Conference (ISWC 2013), see http://iswc2013. semanticweb.org/, senior program committee member research track, program committee member evaluation track, in-use track
- 4th International Workshop on Consuming Linked Data (COLD 2013), see http: //db.uwaterloo.ca/cold2013/
- OrdRing 2013 2nd International Workshop on Ordering and Reasoning, see http: //www.streamreasoning.org/events/ordring2013
- Workshop on Society, Privacy and the Semantic Web Policy and Technology (PrivOn 2013 PrivOn 2017), see http://privon.semanticweb.org/
- 23rd International Joint Conference on Artificial Intelligence (IJCAI-13), see http: //ijcai13.org/

- iThings 2013 Conference (the 2013 IEEE International Conference on Internet of Things), see http://www.china-iot.net/iThings2013.htm, technical programme committee member for the "Intelligent Management" track
- 27th AAAI Conference on Artificial Intelligence (AAAI-13), see https://www.aaai. org/Conferences/AAAI/aaai13.php, senior program committee member in the "AI and the Web" track
- 12th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR 2013), see http://lpnmr2013.udc.es/
- Workshop on Answer Set Programming and Other Computing Paradigms (ASPOCP) 2013, see http://sites.google.com/site/aspocp13
- 7th International Conference on Web Reasoning and Rule Systems (RR2013), see http://www.rr-conference.org/RR2013/
- ESWC2013, senior PC member of Research track, see http://2013.eswc-conferences.org/
- ESWC2013 workshop on Services and Applications over Linked APIs and Data (SALAD2013), see http://salad2013.linkedservices.org/
- Second international workshop on Knowledge Discovery and Data Mining Meets Linked Open Data (Know@LOD), see http://www.ke.tu-darmstadt.de/know-a-lod-2013/
- 32th ACM SIGMOD-SIGACT-SIGART Symposium on Principles of Database Systems (PODS 2013), see http://www.sigmod.org/2013/ External Review Committee (ERC)
- 11th International Semantic Web Conference (ISWC 2012), see http://iswc2012. semanticweb.org/, senior program committee member
- ISWC2012 Workshop on Consuming Linked Data (COLD 2012), see http://km. aifb.kit.edu/ws/cold2012/
- International Conference on Semantic Systems 2012, Graz, Austria (I-SEMANTICS'12), see http://i-semantics.tugraz.at/
- 20th European Conference on Artificial Intelligence (ECAI 2012), see http://www2. lirmm.fr/ecai2012/
- ECAI2012 workshop on Standards for Smart Applications (S4SA 2012), see https: //sites.google.com/site/s4sa2012/
- 26th AAAI Conference on Artificial Intelligence (AAAI-12), see http://www.aaai. org/Conferences/AAAI/aaai12.php
- 3rd International Workshop on Data Engineering Meets the Semantic Web (DESWEB), see http://sites.google.com/site/desweb2012/

- ISWC2011 Workshop on Consuming Linked Data (COLD 2011), see http://km. aifb.kit.edu/ws/cold2011/
- 10th International Semantic Web Conference (ISWC 2011), see http://iswc2011. semanticweb.org/, senior program committee member
- 10th International Semantic Web Conference In-Use Track (ISWC 2011), see http: //iswc2011.semanticweb.org/
- 1st International Workshop on Ordering and Reasoning (OrdRing 2011), see http: //ordring2011.search-computing.org/
- 25th Workshop for Logic Programming (WLP 2011), see http://www.kr.tuwien. ac.at/events/wlp11/
- 19th International Conference on Applications of Declarative Programming and Knowledge Management http://www.kr.tuwien.ac.at/events/inap11/
- Workshop on Answer Set Programming and Other Computing Paradigms (ASPOCP) 2011 http://www.dbai.tuwien.ac.at/proj/aspocp11/
- The 2011 IEEE/WIC/ACM International Conference on Web Intelligence, see http: //wi-iat-2011.org/
- 10th International Conference on Ontologies, DataBases, and Applications of Semantics (ODBASE 2011), see http://www.otm-conferences.org/index.php/odbasehornav
- International Conference on Semantic Systems 2011, Graz, Austria (I-SEMANTICS'11), see http://i-semantics.tugraz.at/
- Linked Data Triplification Challenge @I-SEMANTICS'11, see http://i-semantics. tugraz.at/triplification-challenge
- 21st International Conference on Automated Planning and Scheduling (ICAPS 2011), see http://icaps11.icaps-conference.org/
- 22nd International Joint Conference on Artificial Intelligence (IJCAI-11), see http: //ijcai-11.iiia.csic.es/.
- Extended Semantic Web Conference (ESWC 2011) Reasoning Track, see http://www.eswc2011.org/
- 1st Workshop on High-Performance Computing for the Semantic Web (HPCSW2011), see http://www.cs.rpi.edu/~weavej3/hpcsw2011/index.xhtml
- Semantic Search workshop at WWW2011 (SEMSEARCH'11), see http://km.aifb. uni-karlsruhe.de/ws/semsearch11
- Fourth International Workshop on Logic in Databases (LID 2011), co-located with EDBT & ICDT 2011, see http://lid2011.lille.inria.fr/.

- 11th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR 2011), see http://sites.google.com/site/lpnmr2011/
- Fourth International Workshop on Service Matchmaking and Resource Retrieval in the Semantic Web (SMR2 2010), see http://www-ags.dfki.uni-sb.de/~klusch/ smr2-10/
- Workshop on Aided Formalization of Business Rules and Policies FoBuR2010, see http://www.ontorule-project.eu/dissemination/events/fobur2010
- ISWC2010 Workshop on Consuming Linked Data (COLD), see http://consuminglinkeddata. org/COLD2010
- International Conference on Semantic Systems 2010, Graz, Austria (I-SEMANTICS'10), see http://i-semantics.tugraz.at/
- Extended Semantic Web Conference (ESWC 2010) Ontologies and Reasoning Track, see http://www.eswc2010.org/calls/ontologies-and-reasoning
- 25-esimo Convegno Italiano di Logica Computazionale (CILC 2010) Italian Conference on Computational Logic, see http://www.mat.unical.it/CILC2010/
- Workshop on Answer Set Programming and Other Computing Paradigms (ASPOCP) 2010 http://www.dbai.tuwien.ac.at/proj/aspocp10/
- 12th European Conference on Logics in Artificial Intelligence (JELIA 2010), see http: //jelia2010.tkk.fi/
- 24th AAAI Conference on Artificial Intelligence (AAAI-10), see http://www.aaai. org/Conferences/AAAI/aaai10.php
- 3rd International Workshop on Ontology Alignment and Visualization (OnAV'10), see http://www.ifs.tuwien.ac.at/~mlanzenberger/OnAV10/
- 9th International Conference on Autonomous Agents and Multiagent Systems (AA-MAS 2010), see http://www.cse.yorku.ca/AAMAS2010/
- AAAI Spring Symposium on "Linked AI:"Linked Data Meets Artificial Intelligence", March 22-24, 2010, see http://www.foaf-project.org/events/linkedai
- WWW2010 workshop: Linked Data on the Web (LDOW2010), see http://events. linkeddata.org/ldow2010/
- WWW2010 workshop: Semantic Search (SemSearch10), see http://km.aifb.uni-karlsruhe. de/ws/semsearch10/
- 19th International World Wide Web Conference (WWW2010), see http://www2010. org/

- 8th International Semantic Web Conference (ISWC 2009), see http://iswc2009. semanticweb.org/
- ISWC 2009 Workshop on Semantics for the Rest of Us Variants of Semantic Web Languages in the Real World, see http://dig.csail.mit.edu/2009/SemRUs-ISWC09/
- First International Workshop on Logic-Based Interpretation of Context: Modelling and Applications (Log-IC 2009), see http://www.cs.uni-potsdam.de/lpnmr09/index.php?page=workshops
- 8th International Conference on Ontologies, DataBases, and Applications of Semantics (ODBASE 2009), see http://www.onthemove-conferences.org
- 21st International Joint Conference on Artificial Intelligence (IJCAI-09), see http: //ijcai-09.org/.
- 6th European Semantic Web Conference (ESWC 2009), see http://www.eswc2009. org/
- 18th International World Wide Web Conference (WWW2009), see http://www2009. org/
- 2nd International Workshop on Ontology Alignment and Visualization (OnAV'09), see http://www.ifs.tuwien.ac.at/~mlanzenberger/OnAV09/
- Workshop on Data Integration through Semantic Technology (DIST2008), see http: //events.sti2.at/dist2008/
- First International Workshop on Fuzzy Logic On the Web (FLOW 2008), see http: //www.cwi.ugent.be/flow2008/
- ISWC2008 Workshop on Nature inspired Reasoning for the Semantic Web (NatuReS), see http://natures.few.vu.nl/
- Workshop on Agreement Technologies (WAT 2008), see http://wat2008.gti-ia. dsic.upv.es/
- 10th International Conference on Electronic Commerce (ICEC 2008), see http://www.icec08.org/
- 3rd Asian Semantic Web Conference (ASWC 2008), see http://www.aswc2008.org/
- 13th International Conference on Artificial Intelligence: Methodology, Systems, Applications (AIMSA 2008), see http://www.aimsaconference.org/.
- 3rd International Workshop on Applications of Semantic Technologies (AST 2008), see http://km.aifb.uni-karlsruhe.de/ws/ast2008
- 7th International Semantic Web Conference (ISWC 2008), see http://iswc2008. semanticweb.org/

- RuleML Symposium on Rule Interchange and Applications (RuleML-2008), see http: //2008.ruleml.org/
- 6th International Workshop on Evaluation of Ontology-based tools and the Semantic Web Service Challenge (EON & SWS-Challenge 2008), see http://sws-challenge.org/wiki/index.php/EON-SWSC2008
- 2nd International Conference on Web Reasoning and Rule Systems (RR2008), see http://www.rr-conference.org/RR2008/
- International Workshop on the Role of Services, Ontologies, and Context in Mobile Environments (RoSOC-M), see http://events.deri.at/RoSOC-M/
- 5th European Semantic Web Conference (ESWC 2008), see http://www.eswc2008. org/
- Demonstrations track of the 5th European Semantic Web Conference (ESWC 2008), see http://www.eswc2008.org/calldemos.html
- PhD Symposium of the 5th European Semantic Web Conference (ESWC 2008), see http://www.eswc2008.org/callphd.html
- Tenth International Symposium on Practical Aspects of Declarative Languages (PADL 08), see http://www.ist.unomaha.edu/padl2008/
- Reasoning Web Summer School 2008, see www.reasoningweb.org/2008/
- International Workshop on Ontology Alignment and Visualization (OnAV'08), see http://www.ifs.tuwien.ac.at/~mlanzenberger/OnAV08/
- International Workshop on Service Composition & SWS Challenge (SerComp & SWS Challenge '07), see http://events.deri.at/sercomp2007/
- ACM Sixteenth Conference on Information and Knowledge Management (CIKM 2007), see http://www.fc.ul.pt/cikm2007/
- RuleML Symposium on Rule Interchange and Applications (RuleML-2007), see http: //2007.ruleml.org/
- Joint ODBIS & SWDB workshop on Semantic Web, Ontologies, Databases (SWDB-ODBIS07), see http://lsdis.cs.uga.edu/swdb-odbis07/
- 1st First International Workshop: "New forms of reasoning for the Semantic Web: scaleable, tolerant and dynamic", see http://members.deri.at/~ruzicap/ISWC2007-WS/
- 2nd International ExpertFinder Workshop: FEWS2007 (Finding Experts on the Web with Semantics), see http://fews.semanticweb.org/
- 6th International Semantic Web Conference and the 2nd Asian Semantic Web Conference (ISWC 2007+ASWC2007), see http://iswc2007.semanticweb.org/

- 5th International Conference on Service-Oriented Computing (ICSOC 2007), see http: //icsoc07.icsoc.org/
- 1st European Workshop on the Use of Ontologies in Logistics Applications" (OntoLogistics2007), see http://events.deri.at/ontologistics2007/
- Conference on Social Semantic Web (CSSW 2007), see http://aksw.org/cssw
- 4th International Workshop on Semantic Web for Services and Processes (SWSP 07), see http://dme.uma.pt/jcardoso/Research/Conferences/SWSP07/
- 2nd International Workshop on Applications of Semantic Technologies (AST 2007), see http://km.aifb.uni-karlsruhe.de/ws/ast2007
- 1st International Conference on Web Reasoning and Rule Systems (RR2007), see http://www.rr-conference.org/RR2007/
- 6th International Conference on Ontologies, DataBases, and Applications of Semantics (ODBASE'07), see http://www.cs.rmit.edu.au/fedconf/index.html?page= odbase2007cfp
- 2nd International Workshop on Managing Context Information and Semantics in Mobile Environments (MCISME 2007), see http://mcisme2007.deri.ie/
- 2nd International Conference on e-Business (ICE-B 2007), see http://www.ice-b. org/ICE-B2007/
- 4th European Semantic Web Conference (ESWC 2007), see http://www.eswc2007. org/
- Knowledge Web PhD Symposium 2007 (KWEPSY 2007), see http://ontoworld. org/wiki/KWEPSY2007
- 1st International Workshop on Applications of Semantic Technologies (AST 2006), see http://km.aifb.uni-karlsruhe.de/ws/ast2006
- 4th International Conference on Service-Oriented Computing (ICSOC 2006)), see http://icsoc06.icsoc.org/
- Service Discovery on the WWW Workshop (SDISCO'06)
- 1st International Workshop on Semantic Matchmaking and Resource Retrieval: Issues and Perspectives (SMR 2006)
- 5th European Networked Knowledge Organization Systems (NKOS 2006) Workshop
- 2006 International Conference on E-business (ICE-B 2006), see http://www.ice-b. org/ICE-B2006/

- International Conference on Rules and Rule Markup Languages for the Semantic Web (RuleML 2006)
- Reasoning on the Web (RoW 2006)
- International Conference on Internet and Web Applications and Services (ICIW 2006)
- Workshop for Logic Programming (WLP 2006)
- Canadian Semantic Web Working Symposium 2006
- Semantic-Based Resource Discovery, Retrieval and Composition (RDRC) Track of the 21st Annual ACM Symposium on Applied Computing (SAC'06)
- 3rd International Conference on Service-Oriented Computing (ICSOC 2005), see http: //icsoc05.icsoc.org/
- PRODIS 2005: Workshop on Product-related Data in Information Systems, see http: //events.deri.at/prodis2005/
- 1st International Workshop on Web Service Choreography and Orchestration for Business Process Management (BPM 2005), see http://events.deri.at/bpm2005/
- IADIS International Conference on WWW/Internet 2005, see http://www.iadis. org/icwi2005/
- 4th International Conference on Ontologies, DataBases, and Applications of Semantics (ODBASE 2005), see http://www.cs.rmit.edu.au/fedconf/odbase/2005/
- SIGIR 2004 Semantic Web Workshop, see http://events.deri.at/sw2004/

9.5 Referee Activities for Institutional Reviews, Audits, and International Funding Agencies

- Prague University of Economics and Business Inernational Evaluation Panel (IEP) member (2020)
- Fraunhofer-Institut für Angewandte Informationstechnik (FIT) Auditor in Fraunhofer's strategy audit (2020)
- Fraunhofer-Institut für Intelligente Analyse- und Informationssysteme (IAIS) Auditor in Fraunhofer's strategy audit (2019)
- Universität Koblenz-Landau Reviewer in the accreditation process for the Cluster Informatics (2018-2019)
- Research Foundation Flanders (Fonds Wetenschappelijk Onderzoek Vlaanderen, FWO) Reviewer (2016-2017)

- Institut national de recherche en informatique et en automatique (INRIA) Member of the international Evaluation Commission (2015)
- European Commission H2020 Evaluator and Project Reviewer (2015-2020, several occasions)
- Italian Research and University Evaluation Agency (ANVUR) Referee (2012)

9.6 Other Memberships in Organisations, Working Groups, and Committees

- Treasurer of the Semantic Web Science Association (SWSA), since 2021, http://swsa.semanticweb.org/.
- Vice-President of the Austrian Society for Artificial Intelligence ASAI (formerly ÖGAI), since 2020, member since 2000, http://www.asai.ac.at/.
- Member of the Working Group "Artificial Intelligence Strategy Austria" established within the "Forum Forschung" (Forum of Research) of the Universities Austria (Österreichische Universitätenkonferenz - uniko), 2019
- Member of the Jury for the "Heinz-Zemanek Award" for excellent degree dissertations in the field of informatics and related areas by the Austrian Computer Society (OCG), since 2016
- Member of the SEMANTICS Conference Permanent Adviosory Board, since 2015, see http://www.semantics.cc/
- Member of the W3C Advisory Committee, representing WU (Wirschaftsuniversität Wien) Vienna University of Economics and Business, January 2014 July 2023, http://www.w3.org.
- Member of the ESWC Scientific Steering Committee, June 2012 June 2016, http: //www.eswc-conferences.org/
- Member of the RR Conference Steering Committee, since May 2011, http://rr-conference.org/
- Co-chair of the W3C SPARQL Working Group, since February 2009, http://www.w3.org/2001/sw/DataAccess/.
- Member of the W3C RDF Working Group, February 2011 June 2011, http://www.w3.org/2011/rdf-wg/.
- Member of IEEE, since November 2008, http://www.ieee.org/.
- Member of the W3C Advisory Committee, representing DERI Galway at the National University of Ireland, Galway, July 2008 May 2009, http://www.w3.org.

- Member of the W3C RDB2RDF Incubator Group (RDB2RDF XG), March 2008 April 2009, http://www.w3.org/2005/Incubator/rdb2rdf/
- Deputy chair of the Reasoning Web Summer School Steering Committee, February 2008 May 2010, http://reasoningweb.org/, board member until September 2012.
- Member of the W3C Rule Interchange Format (RIF) Working Group, November 2005 - October 2010, http://www.w3.org/2005/rules/
- Member of the W3C Advisory Committee, representing DERI Innsbruck at the Leopold Franzens Universität Innsbruck, January 2005 to January 2006, http://www.w3.org.
- Member of the Semantic Web Services Language (SWSL) Committee, since November 2004, http://www.daml.org/services/swsl/.
- Member of the Web Service Modeling Ontology (WSMO) Working Group, since January 2004, http://www.wsmo.org/.
- Member of the OCG (Austrian Computer Society), since 2000, http://www.ocg.at/.

10 Publications

2024

- Daniil Dobryi and Axel Polleres. SMW Cloud: A corpus of domain-specific knowledge graphs from Semantic MediaWikis. In *Proceedings of the 21st European Semantic Web Conference (ESWC2024)*, Hersonissos, Greece, May 2024. To appear.
- [2] Nicolas Ferranti, Jairo Francisco de Souza, Shqiponja Ahmetaj, and Axel Polleres. Formalizing and validating Wikidata's property constraints using SHACL and SPARQL. *Semantic Web – Interoperability, Usability, Applicability (SWJ)*, 2024. To appear, accepted for publication.
- [3] Amr Azzam, Axel Polleres, Javier D. Fernandez, and Maribel Acosta. smart-KG: Partition-based linked data fragments for querying knowledge graphs. Semantic Web – Interoperability, Usability, Applicability (SWJ), 2024. To appear, accepted for publication.

- [1] Axel Polleres, Romana Pernisch, Angela Bonifati, Daniele Dell'Aglio, Daniil Dobriy, Stefania Dumbrava, Lorena Etcheverry, Nicolas Ferranti, Katja Hose, Ernesto Jiménez-Ruiz, Matteo Lissandrini, Ansgar Scherp, Riccardo Tommasini, and Johannes Wachs. How does knowledge evolve in open knowledge graphs? *TGDK*, 1(1):11:1–11:59, December 2023.
- [2] Daniil Dobriy and Axel Polleres. O2WB: A tool enabling ontology reuse in Wikibase. In Proceedings of the 12th Knowledge Capture Conference (K-CAP '23), pages 101—104, December 2023.
- [3] Felipe Vargas-Rojas, Axel Polleres, Llorenç Cabrera-Bosquet, and Danai Symeonidou. PhyQus: Automatic unit conversions for Wikidata physical quantities. In 4rd Wikidata Workshop (co-located with ISWC2023), November 2023. accepted/to appear.
- [4] Daniil Dobriy and Axel Polleres. Crawley: A tool for web platform discovery. In Proceedings of the 22nd International Semantic Web Conference (ISWC2023) – Posters and Demos Track, 2023. To appear.
- [5] Amin Anjomshoaa, Hannah Schuster, Johannes Wachs, and Axel Polleres. Towards crisis response and intervention using knowledge graphs - CRISP case study. In Marcela Ruiz and Pnina Soffer, editors, Advanced Information Systems Engineering Workshops -CAiSE 2023 International Workshops, Zaragoza, Spain, June 12-16, 2023, Proceedings, volume 482 of Lecture Notes in Business Information Processing, pages 67–73. Springer, June 2023.

- [6] Hannah Schuster, Axel Polleres, and Johannes Wachs. Quantifying road network vulnerability by access to healthcare. In NETSCI 2023: INTERNATIONAL SCHOOL AND CONFERENCE ON NETWORK SCIENCE, 2023. conference abstract only, paper forthcoming.
- [7] Gary P. Tchat, Amin Anjomshoaa, Daniil Dobriy, Fajar J. Ekaputra, Elmar Kiesling, Axel Polleres, and Marta Sabou. From semantic web to wisdom web: A retrospective on the journey to 2043. In *Proceedings of the ESWC2023 "The next 20 years (ESWC 2043)" track*, May 2023.
- [8] Gerhard Georg Klager and Axel Polleres. Is GPT fit for KGQA? preliminary results. In Proceedings of the International Workshop on Knowledge Graph Generation from Text (Text2KG2023), co-located with Extended Semantic Web Conference 2023 (ESWC 2023), May 2023. to appear.
- [9] Amin Anjomshoaa, Hannah Schuster, Johannes Wachs, and Axel Polleres. From data to insights: Constructing spatiotemporal knowledge graphs for city resilience use cases. In Proceedings of the Second International Workshop on Linked Data-driven Resilience Research 2023 (D2R2 2023), co-located with Extended Semantic Web Conference 2023 (ESWC 2023), volume 3401 of CEUR Workshop Proceedings. CEUR-WS.org, May 2023.

- Daniil Dobriy and Axel Polleres. Analysing and promoting ontology interoperability in Wikibase. In Proceedings of the 3rd Wikidata Workshop (co-located with ISWC2022), October 2022.
- [2] Nicolas Ferranti, Axel Polleres, Jairo Francisco De Souza, and Shqiponja Ahmetaj. Formalizing property constraints in Wikidata. In Proceedings of the 3rd Wikidata Workshop (co-located with ISWC2022), October 2022.
- [3] Sofia Baroncini, Margherita Martorana, Mario Scrocca, Zuzanna Smiech, and Axel Polleres. Analysing the evolution of community-driven (sub-)schemas within Wikidata. In Proceedings of the 3rd Wikidata Workshop (co-located with ISWC2022), October 2022.
- [4] Robert David, Shqiponja Ahmetaj, Mantas Šimkus, and Axel Polleres. Repairing SHACL constraint violations using answer set programming. In *Proceedings of the 21st International Semantic Web Conference (ISWC 2022)*, volume 13489 of *Lecture Notes in Computer Science (LNCS)*, pages 375–391, Virtual Conference (Hangzhou, China), October 2022. Springer.
- [5] Stefan Bachhofner, Elmar Kiesling, Kate Revoredo, Philipp Waibel, and Axel Polleres. Automated process knowledge graph construction from bpmn models. In *3rd DEXA* conferences and workshops (DEXA2022), August 2022. Full paper.

- [6] Armin Haller, Axel Polleres, Daniil Dobriy, Nicolas Ferranti, and Sergio J. Rodríguez Méndez. An analysis of links in Wikidata. In 19th European Semantic Web Conference, ESWC 2022. Springer, May 2022.
- [7] Johannes Wachs, Mariusz Nitecki, William Schueller, and Axel Polleres. The geography of open source software: Evidence from GitHub. *Technological Forecasting and Social Change*, 176:121478, March 2022.
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