

Curriculum Vitae

Personal Data

Birthdate: March 29, 1982
Birthplace: Meissen, Saxony, Germany
Nationality: German
Family status: unmarried



School Education

1992–1998 St.-Afra-Gymnasium Meissen
1998–2000 Werner-Heisenberg-Gymnasium Riesa with extended mathematical and scientific education
2000 Abitur, grade 1,2

Military Service, Study Preparations

2000–2001 Military Service at the General-Olbricht-Kaserne in Leipzig
2001 5 month practical work at System Service Meissen, (Web Applications, Scripting Languages, Databases)

Scientific Education

2001–2006 Study of Computer Science at TU Dresden
2005–2006 Erasmus exchange student at the University of Bristol (England), 4 master courses (each with grade "A") with focus on Machine Learning
2006 Diploma in Computer Science, grade 1,1
2006–2010 PhD student at University of Leipzig, grade "summa cum laude"
since 2010 PostDoc and research group leader at University of Leipzig
since 2011 PostDoc at the University of Oxford

Miscellaneous

1993–2000 winnings or successful participation at several Math Olympics at state (Saxony) and country (Germany) level
1998 4 week language course in Brighton, England; obtained language diploma: grade "Advanced", level "Excellent"
1999 participation in German delegation at the "International Historical Forum of Youth", a 9 day meeting to support the understanding among nations in Krzyzowa and Opole (Poland)

1 Research Projects and Groups

Research Groups

- ▷ AKSW - Agile Knowledge Engineering and Semantic Web (since 2006, member)
- ▷ Information Systems Group - University of Oxford (since 2011, research visitor)
- ▷ MOLE - Machine Learning and Ontology Engineering (since 2010, leader)

Software Projects

- ▷ AutoSPARQL - question answering (since 2010, co-founder and leader)
- ▷ DBpedia - extraction of machine understandable content from Wikipedia (since 2007, co-founder, co-leader)
- ▷ DL-Learner - DL-Learner is a tool for supervised Machine Learning in OWL and Description Logics (since 2007, founder, leader)
- ▷ LinkedGeoData - adding a spatial dimension to the Web of Data (since 2009, co-founder, co-leader)
- ▷ NLP2RDF - integration of multiple NLP tools to obtain RDF (since 2009, minor contributor)
- ▷ OntoWiki - agile, distributed knowledge engineering (since 2006, minor contributor)
- ▷ ORE - Ontology Repair and Enrichment (since 2010, co-founder, co-leader)

Funded Research Projects

- ▷ DIADEM - Domain-centric Intelligent Automated Data Extraction Methodology (2010 - 2015, research visitor)
- ▷ LATC - Linked Open Data Around the Clock (2010 - 2012, lead for AKSW)
- ▷ LE4SW - Regionale Technologieplattform für soziale, semantische Kollaboration (since 2009, participant)
- ▷ LOD2 - Creating Knowledge out of Inerlinked Data (2010 - 2014, work package lead)
- ▷ OntoWiki - Semantic Collaboration for Enterprise Knowledge Management, E-Learning and E-Tourism (2008 - 2010, participant)

- ▷ SoftWiki - distributed, end-user centered requirements engineering for evolutionary software development (2006 - 2010, participant)

Other

- ▷ JITR - Journal of Information Technology Research (since 2008, editorial board member)
- ▷ SWJ - Semantic Web Journal (since 2010, editorial board member)

2 Publications

Top 5 Publications

- [LBK⁺09] Jens Lehmann, Chris Bizer, Georgi Kobilarov, Sören Auer, Christian Becker, Richard Cyganiak, and Sebastian Hellmann. DBpedia - a crystallization point for the web of data. *Journal of Web Semantics*, 2009. Journal of Web Semantics Award (Most Cited Article 2006-2010).
- [Leh09] Jens Lehmann. DL-learner: Learning concepts in description logics. *Journal of Machine Learning Research*, 10:2639–2642, 2009.
- [LH10] Jens Lehmann and Pascal Hitzler. Concept learning in description logics using refinement operators. *Machine Learning*, 78:203–250, 2010.
- [MLAN11] Mohamed Morsey, Jens Lehmann, Sören Auer, and Axel-Cyrille Ngonga Ngomo. DBpedia sparql benchmark – performance assessment with real queries on real data. In *Proc. of the International Semantic Web Conference*. Springer, 2011. Best Paper Award.
- [SLHA11] Claus Stadler, Jens Lehmann, Konrad Höffner, and Sören Auer. LinkedGeoData: A core for a web of spatial open data. *Semantic Web Journal*, 2011.

Journal Publications

- [AL10] Sören Auer and Jens Lehmann. Making the web a data washing machine - creating knowledge out of interlinked data. *Semantic Web Journal*, 2010.
- [HLA09] Sebastian Hellmann, Jens Lehmann, and Sören Auer. Learning of OWL class descriptions on very large knowledge bases. *International Journal On Semantic Web and Information Systems*, 2009.

- [LABgD11] Jens Lehmann, Sören Auer, Lorenz Bühmann, and Sebastian Tramp (geb. Dietzold). Class expression learning for ontology engineering. *Journal of Web Semantics*, 9:71–81, 2011.
- [LBH08] Jens Lehmann, Sebastian Bader, and Pascal Hitzler. Extracting reduced logic programs from artificial neural networks. *Applied Intelligence*, 2008.
- [LBK⁺09] Jens Lehmann, Chris Bizer, Georgi Kobilarov, Sören Auer, Christian Becker, Richard Cyganiak, and Sebastian Hellmann. DBpedia - a crystallization point for the web of data. *Journal of Web Semantics*, 2009. Journal of Web Semantics Award (Most Cited Article 2006-2010).
- [Leh09] Jens Lehmann. DL-learner: Learning concepts in description logics. *Journal of Machine Learning Research*, 10:2639–2642, 2009.
- [LH10] Jens Lehmann and Pascal Hitzler. Concept learning in description logics using refinement operators. *Machine Learning*, 78:203–250, 2010.
- [SLHA11] Claus Stadler, Jens Lehmann, Konrad Höffner, and Sören Auer. LinkedGeoData: A core for a web of spatial open data. *Semantic Web Journal*, 2011.

Conference Publications

- [ABK⁺08] Sören Auer, Chris Bizer, Georgi Kobilarov, Jens Lehmann, Richard Cyganiak, and Zachary Ives. DBpedia: A nucleus for a web of open data. In *Proceedings of the 6th International Semantic Web Conference (ISWC)*, volume 4825 of *Lecture Notes in Computer Science*, pages 722–735. Springer, 2008.
- [AgDL⁺09] Sören Auer, Sebastian Tramp (geb. Dietzold), Jens Lehmann, Sebastian Hellmann, and David Aumüller. Triplify - lightweight linked data publication from relational databases. In *Proceedings of the 18th World Wide Web Conference (WWW)*, 2009.
- [AL07] Sören Auer and Jens Lehmann. What have innsbruck and leipzig in common? extracting semantic from wiki content. In Enrico Franconi, Michael Kifer, and Wolfgang May, editors, *Proceedings of the 4th European Semantic Web Conference (ESWC)*, volume 4519 of *Lecture Notes in Computer Science*, pages 503–517. Springer, 2007.
- [ALH09] Sören Auer, Jens Lehmann, and Sebastian Hellmann. LinkedGeoData - adding a spatial dimension to the web of data. In *Proc. of 7th*

International Semantic Web Conference ISWC, volume 5823 of *Lecture Notes in Computer Science*, pages 731–746. Springer, 2009.

- [AWL⁺10] Sören Auer, Matthias Weidl, Jens Lehmann, Amrapali J. Zaveri, and Key-Sun Choi. I18n of semantic web applications. In *Proceedings of the 9th International Semantic Web Conference*, Lecture Notes in Computer Science. Springer, 2010.
- [HHL⁺09] Philipp Heim, Sebastian Hellmann, Jens Lehmann, Steffen Lohmann, and Timo Stegemann. Relfinder: Revealing relationships in rdf knowledge bases. In *Proceedings of the 3rd International Conference on Semantic and Media Technologies*, volume 5887 of *Lecture Notes in Computer Science*, pages 182–187. Springer, 2009.
- [HSLA09] Sebastian Hellmann, Claus Stadler, Jens Lehmann, and Sören Auer. DBpedia live extraction. In *Proceedings of the 8th International Conference on Ontologies, DataBases, and Applications of Semantics (ODBASE)*, volume 5871 of *Lecture Notes in Computer Science*, page 1209–1223. Springer, 2009.
- [IL11] Josué Iglesias and Jens Lehmann. Towards integrating fuzzy logic capabilities into an ontology-based inductive logic programming framework. In *Proc. of the 11th International Conference on Intelligent Systems Design and Applications ISDA*, 2011.
- [KBAL09] Georgi Kobilarov, Chris Bizer, Sören Auer, and Jens Lehmann. DBpedia - a linked data hub and data source for web applications and enterprises. In *Proceedings of Developers Track of 18th International World Wide Web Conference*, 2009.
- [LB10] Jens Lehmann and Lorenz Bühmann. ORE - a tool for repairing and enriching knowledge bases. In *Proceedings of the 9th International Semantic Web Conference*, Lecture Notes in Computer Science. Springer, 2010.
- [LB11] Jens Lehmann and Lorenz Bühmann. Autosparql: Let users query your knowledge base. In *Proceedings of ESWC 2011*, volume 6643 of *Lecture Notes in Computer Science*, pages 63–79, 2011.
- [Leh07] Jens Lehmann. Hybrid learning of ontology classes. In *Proceedings of the 5th International Conference on Machine Learning and Data Mining (MLDM)*, volume 4571 of *Lecture Notes in Computer Science*, pages 883–898. Springer, 2007.

- [LH08a] Jens Lehmann and Pascal Hitzler. Foundations of refinement operators for description logics. In Hendrick Blockeel, Jude W. Shavlik, and Prasad Tadepalli, editors, *Proceedings of the 17th International Conference on Inductive Logic Programming (ILP)*, volume 4894 of *Lecture Notes in Computer Science*, pages 161–174. Springer, 2008. Best Student Paper Award (1500 dollar sponsored by the Machine Learning Journal, shared with the paper above).
- [LH08b] Jens Lehmann and Pascal Hitzler. A refinement operator based learning algorithm for the ALC description logic. In Hendrick Blockeel, Jude W. Shavlik, and Prasad Tadepalli, editors, *Proceedings of the 17th International Conference on Inductive Logic Programming (ILP)*, volume 4894 of *Lecture Notes in Computer Science*, pages 147–160. Springer, 2008. Best Student Paper Award (1500 dollar sponsored by the Machine Learning Journal, shared with the paper below).
- [LH09] Jens Lehmann and Christoph Haase. Ideal downward refinement in the el description logic. In *Proceedings of the 19th International Conference on Inductive Logic Programming*, volume 5989 of *Lecture Notes in Computer Science*, pages 73–87. Springer, 2009.
- [LSA07] Jens Lehmann, Jörg Schüppel, and Sören Auer. Discovering unknown connections - the DBpedia relationship finder. In *Proceedings of the 1st SABRE Conference on Social Semantic Web (CSSW)*, 2007.
- [MLAN11] Mohamed Morsey, Jens Lehmann, Sören Auer, and Axel-Cyrille Ngonga Ngomo. DBpedia sparql benchmark – performance assessment with real queries on real data. In *Proc. of the International Semantic Web Conference*. Springer, 2011. Best Paper Award.
- [RLL07] Thomas Riechert, Kim Lauenroth, and Jens Lehmann. SwORE - softwiki ontology for requirements engineering. In Sören Auer, Chris Bizer, Claudia Müller, and Anna Zhdanova, editors, *Proceedings of the 1st Conference on Social Semantic Web*, volume P-113 of *Lecture Notes in Informatics*, 2007.
- [RLLA07] Thomas Riechert, Kim Lauenroth, Jens Lehmann, and Sören Auer. Towards semantic based requirements engineering. In *Proceedings of the 7th International Conference on Knowledge Management (I-KNOW)*, 2007.
- [ZPA⁺11] Amrapali J. Zaveri, Ricardo Pietrobon, Sören Auer, Jens Lehmann, Michael Martin, and Timofey Ermilov. Redd-observatory: Using the web of data for evaluating the research-disease disparity. In *Proceedings of the 10th International Conference on Web Intelligence (WI)*, 2011.

Workshop Publications

- [LBH05] Jens Lehmann, Sebastian Bader, and Pascal Hitzler. Extracting reduced logic programs from artificial neural networks. In *Proceedings of the IJCAI-05 Workshop on Neural-Symbolic Learning and Reasoning, NeSy'05*, 2005.
- [NLAB11] Axel-Cyrille Ngonga Ngomo, Jens Lehmann, Sören Auer, and Rolland Brunec. Raven - active learning of link specifications. In *Proceedings of the Ontology Matching Workshop*, 2011.
- [RLL07] Thomas Riechert, Kim Lauenroth, and Jens Lehmann. Semantisch unterstütztes requirements engineering. In *Proceedings of the SABRE-07 SoftWiki Workshop*, 2007. extended german version of "Towards Semantic based Requirements Engineering".
- [SMLH10] Claus Stadler, Michael Martin, Jens Lehmann, and Sebastian Hellmann. Update strategies for DBpedia live. In *6th Workshop on Scripting and Development for the Semantic Web Colocated with ESWC*, 2010.

Poster Publications

- [HLA08] Sebastian Hellmann, Jens Lehmann, and Sören Auer. Learning of OWL class descriptions on very large knowledge bases. In *7th International Semantic Web Conference (ISWC)*, 2008.

Demos

- [AgDLR07] Sören Auer, Sebastian Tramp (geb. Dietzold), Jens Lehmann, and Thomas Riechert. Ontowiki - a tool for social, semantic collaboration. In *Proceedings of the WWW-07 Workshop on Social and Collaborative Construction of Structured Knowledge Neural-Symbolic Learning and Reasoning (CKC)*, 2007.
- [AL09] Sören Auer and Jens Lehmann. LinkedGeoData - collaboratively created geo-information for the semantic web. 2009. Semantic Web Challenge, ISWC 2009.
- [HUL10] Sebastian Hellmann, Jörg Unbehauen, and Jens Lehmann. Hanne - a holistic application for navigational knowledge engineering. In *Proceedings of ISWC Posters&Demos*, 2010.

- [LK08] Jens Lehmann and Sebastian Knappe. DBpedia navigator. 2008. Semantic Web Challenge.

Theses

- [Leh06] Jens Lehmann. Concept learning in description logics, 2006. Diploma Thesis in Computer Science.
- [Leh10] Jens Lehmann. Learning OWL class expressions, 2010. PhD in Computer Science.

Technical Reports

- [LH07a] Jens Lehmann and Pascal Hitzler. Foundations of refinement operators for description logics. Technical report, 2007. A slightly older, but extended version including proofs of the ILP 2007 article with the same name.
- [LH07b] Jens Lehmann and Pascal Hitzler. A refinement operator based learning algorithm for the ALC description logic. Technical report, 2007. An extended version including proofs of the ILP 2007 article with the same title.
- [LH09] Jens Lehmann and Christoph Haase. Ideal downward refinement in the el description logic. Technical report, 2009.

3 Awards

- ▷ International Semantic Web Conference Best Research Paper Award (2011) for "DBpedia SPARQL Benchmark" (with M. Morsey, J. Lehmann and A.-C-Ngonga Ngomo)
- ▷ Journal of Web Semantics Most Cited Paper (2006-2010) Award with "DBpedia - A Crystallization Point for the Web of Data" (joint first author with Chris Bizer)
- ▷ Best Student Paper Award at the International Conference on Inductive Logic Programming (ILP) 2007 with "A Refinement Operator Based Learning Algorithm for the \mathcal{ALC} Description Logic" and "Foundations of Refinement Operators for Description Logics" (\$1500 price)

Other: runner up in the ISWC 2009 Semantic Web challenge for LinkedGeoData (with Sören Auer and Claus Stadler); DBpedia selected by ReadWriteWeb as top 10 Semantic Web product 2009; nominated for the 2008 award of the Andrew W. Mellon foundation for DBpedia; several prizes in national math olympics 1992-2000

4 Chairing, Program Committee Membership, Reviewing

The list below is not complete.

- ▷ discussion panel member, Extended Semantic Web Conference (ESWC), 2011
- ▷ PC member, Extended Semantic Web Conference (ESWC), 2011
- ▷ PC member, International Conference on Web Engineering (ICWE), 2011
- ▷ PC member, International Joint Conference on Artificial Intelligence (IJCAI), 2011
- ▷ PC member, International Workshop on Inductive Reasoning and Machine Learning for the Semantic Web (IRMLeS), 2011
- ▷ PC member, Linked Data on the Web (LDOW), 2011
- ▷ PC member, Massive Information Sharing and Integration (MISI), 2011
- ▷ reviewer, International Journal On Semantic Web and Information Systems (IJSWIS), 2011
- ▷ reviewer, Knowledge-Based Systems (KNOSYS), 2011
- ▷ reviewer, Semantic Web Journal (SWJ), 2011
- ▷ track chair, Extended Semantic Web Conference (ESWC), 2011
- ▷ PC member, Extended Semantic Web Conference (ESWC), 2010
- ▷ PC member, Workshop On Linked Spatiotemporal Data (LSTD), 2010
- ▷ PC member, Workshop on Inductive Reasoning and Machine Learning on the Semantic Web (IRMLeS), 2010
- ▷ PC member, Workshop on Trust and Privacy on the Social and Semantic Web (SPOT), 2010
- ▷ reviewer, International Conference on Inductive Logic Programming (ILP), 2010
- ▷ reviewer, Journal of Web Semantics (JWS), 2010
- ▷ reviewer, Knowledge-Based Systems (KNOSYS), 2010
- ▷ reviewer, Semantic Web Journal (SWJ), 2010
- ▷ PC member, European Semantic Web Conference (ESWC), 2009

- ▷ PC member, International Workshop on Web Semantics (WebS), 2009
- ▷ PC member, Workshop on Inductive Reasoning and Machine Learning on the Semantic Web (IRMLeS), 2009
- ▷ PC member, Workshop on Scripting and Development for the Semantic Web (SFSW), 2009
- ▷ PC member, European Semantic Web Conference (ESWC), 2009
- ▷ reviewer, European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML PKDD), 2009
- ▷ reviewer, IEEE International Conference on Semantic Computing (ICSC), 2009
- ▷ reviewer, International Semantic Web Conference (ISWC), 2009
- ▷ reviewer, Journal of Information Technology Research (JITR), 2009
- ▷ reviewer, Journal of Web Semantics (JWS), 2009
- ▷ PC member, I-Semantics (IS), 2008
- ▷ PC member, International Conference on Semantic Systems (I-Semantics), 2008
- ▷ PC member, Workshop on Scripting for the Semantic Web (SFSW), 2008
- ▷ reviewer, IEEE International Conference on Web Services (ICWS), 2008
- ▷ reviewer, International Journal of Metadata, Semantics and Ontologies (IJMSO) (IJMSO), 2008
- ▷ reviewer, Workshop on Linked Data on the Web (LDOW), 2008
- ▷ PC member, SABRE Conference on Social Semantic Web (CSSW), 2007
- ▷ PC member, SABRE Conference on Social Semantic Web (CSSW), 2007
- ▷ reviewer, European Semantic Web Conference (ESWC), 2007
- ▷ reviewer, International Joint Conference on Neural Networks (IJCNN), 2007
- ▷ reviewer, Journal of Web Semantics (JWS), 2007

5 Seminars and Teaching

- ▷ assistant lecturer Semantic Web, 2011
- ▷ LSWT Data Web Tutorial, 2011
- ▷ practical course "Semantic Web", 2011
- ▷ assistant lecturer "Semantic Web", 2010
- ▷ practical course "Semantic Web", 2010
- ▷ assistant lecturer "Semantic Web", 2009
- ▷ practical course "Semantic Web", 2009
- ▷ seminar "Softwareproduktlinienentwicklung und Semantic Web", 2008/09
- ▷ seminar "Semantische Unterstützung von Software Entwicklungsprozessen", 2007/08
- ▷ seminar "Semantic Web Applications", 2007
- ▷ seminar "Semantic Web Services and Interfaces", 2006/07
- ▷ research seminar of the chair of Business Information Systems, 2006-2010

6 Supervision

- ▷ Sebastian Hellmann, PhD student, since 2010
- ▷ Amrapali J. Zaveri, PhD student, since 2010
- ▷ Claus Stadler, PhD student, since 2010
- ▷ Mohamed Morsey, PhD student, since 2010
- ▷ Lorenz Bühmann, PhD student, since 2010
- ▷ Christian Kötteritzsch, master thesis, 2011
- ▷ Marco Wittig, bachelor thesis, 2011
- ▷ Josué Iglesias, unknown type, 2011 (4 months exchange)
- ▷ Rachit Bhatia, unknown type, 2011 (3 months)
- ▷ Steffen Becker, diploma thesis, 2010

- ▷ Lorenz Bühmann, master thesis, 2009
- ▷ Vu Duc Minh, bachelor thesis, 2008
- ▷ Lorenz Bühmann, bachelor thesis, 2008
- ▷ Christian Kötteritzsch, bachelor thesis, 2008
- ▷ Maria Moritz, bachelor thesis, 2008 (with Sebastian Dietzold)
- ▷ Sebastian Knappe, diploma thesis, 2007/2008
- ▷ Rolland Brunec, bachelor thesis, 2007/2008
- ▷ Tom Weiland, bachelor thesis, 2007/2008
- ▷ Ruslan Masold, bachelor thesis, 2007/2008
- ▷ Tilo Hielscher, bachelor thesis, 2007/2008
- ▷ Sebastian Hellmann, diploma thesis, Comparison of Concept Learning Algorithms, 2007/2008
- ▷ Fan Zhang, bachelor thesis, 2007
- ▷ Anke Gonschorreck, bachelor thesis, 2007
- ▷ Jörg Schüppel, diploma thesis, Semantikextraktion aus Wikipedia, 2006/2007 (with Sören Auer)

In addition, the work of many student assistants was supervised.

Visit <http://jens-lehmann.org> for more information.