

Stefan Schlobach

Curriculum Vitae

Contact Information

- **University Address**

Vrije Universiteit Amsterdam
Department of Computer Science
De Boelelaan 1081a
1081HV Amsterdam
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Professional Experience

- **Universitair Docent (Assistant Professor)** [November 2004 – present]

Vrije Universiteit Amsterdam, The Netherlands

- **Post-Doc Researcher** [March 2002 – November 2004]

Universiteit van Amsterdam, The Netherlands

- **Research Assistant** [April 1998 – January 2002]

Department of Computer Science, King's College London, UK

- **Research Associate** [October 1997 – February 1998]

Department of Computing, Imperial College, London, UK

Degrees and Education

- **PhD** [March 2002]

Department of Computer Science, King's College London, UK

- **Diplom Informatiker** [December 1996]

Max Planck Institut, Saarbrücken, Germany

- **Licence d'Informatique** [September 1992]

Université de Paris XI, Orsay, France

Professional Activities

• PC memberships and Refereeing

- Guest editor of Special Issue on Dealing with the Messiness of the Web of Data, Journal of Web Semantics (2012)
- Guest editor of Special Issue on Web Scale Reasoning. Journal of Semantic Computing (2010)
- Program Committee member (since 2008) of **AAAI** 2012, 2013 COLD 2013, DL 2007, 2009, 2010, 2011, **EKAW** 2012, EKAW DC 2012, **ESWC** 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, ESWC DC 2010, 2011, 2012, 2013, 2014, ESWC WS 2014, FOIS 2014, GraphQ 2010, 2013, 2014, INFORMATIK 2008, 2011, **IJCAI** 2011, 2013, **ISWC** 2009, 2012, 2013, 2014, JIST 2011, 2012, JIST DC 2012, LATA 2010, NeFoRS'10, ORE 2012, 2013, 2014 OWLED 2012, 2013, PAAR 2012, STAIRS 2014, UniDL, 2010, 2012 WoDOOM 2012, 2013, 2014, WWW 2008,

• Conference Organization

- EKAW Program Chair 2014 (International Conference on Knowledge Engineering and Knowledge Management)
- OrdRing Workshop co-chair 2013, 2014 (Ordering and Reasoning)
- ESWC Tutorial Chair 2013 (European Semantic Web Conference)
- DownScale Workshop co-chair 2012
- SOAT Workshop co-chair (Self-Organizing & Approximation Techniques for the Web of Data) 2010
- NatuReS 2008, 2009 Workshop co-chair (Nature Inspired Reasoning for the Semantic Web)

Publications and Presentations¹

• Citations: 1638, h-index: 20²

• Papers published in major international journals

- IEEE Internet Computing 2014
- Semantic Web Journal 2012, 2013
- IEEE Computational Intelligence Magazine 2012
- Journal of Data Semantics 2012
- Journal of Web Semantics 2011, 2012
- Advances in Complex Systems 2011
- Journal of Automated Reasoning 2007, 2011
- Journal of Applied Logics 2009
- IEEE Intelligent Systems 2009
- Journal of Information Technology and Politics 2008
- Library Reviews 2008
- Journal of the IGPL 1999

¹Almost all papers have been co-authored with a variety of national and international colleagues. See the appendix for more details.

²Google scholar 15.02.2015

- **Major Conferences**

- ESWC 2005, 2007, 2008, 2013 (European Semantic Web Conference)
- ISWC 2008, 2008, 2009, 2010, 2011, 2012, 2014 (International Semantic Web Conference)
- IJCAI 2003, 2007 (International Joint Conference on AI)
- AAAI 2005 (National Conference of the American Association of AI)
- EKAW 2010 (International Conference on Knowledge Engineering and Knowledge Management)
- SemaPro 2010 (International Conference on Advances in Semantic Processing)
- ECDL 2009 (European Conference on Digital Libraries)
- SUM 2009 (International Conference on Scalable Uncertainty Management)
- ASWC 2007/2008 (Asian Semantic Web Conference)
- AIME 2007 (AI in Medicine)
- ECAI 2004 (European Conference on AI)
- Medical Informatics 2004
- JELIA 2004 (Logics in Computer Science)

- **Invited Talks**

- AI meets the Web of Data. ESWC Workshop. 2013
- School Seminar (Department of Computer Science Manchester). 2013
- Invited Tutorial Speaker: Introduction to the Semantic Web 2012

- **Prices and Distinctions**

- ISWC 2012 Best Outrages Ideas Paper
- SemaPro Best Paper Award (2010)
- ICA2010 One of three best faculty papers of the Information System division (2010)
- Billion Triple Challenge 2009 (2nd place)
- Library Review: Highly Recommended Award 2009

- **Involvement in research projects**

- D2S (COMMIT)
- CEDAR (KNAW)
- PraSem (NWP VC)
- OpenPhacts (EU)
- Semantic Network Analysis (with Communication Science group)
- SMS (with Scientometrics group)
- LATC (EU CA)
- LarKC (EU IP)
- SOKS (With Computational Intelligence group)
- SEKT (EU IP)
- STITCH (NWO CATCH)
- PraSem NWO VC (2012)
- KnowEscape: COST action (2012)

- QuaX public/privat partnership grant with HP (2008)
- SOKS: Internal collaboration project (2007)
- Phil@Scale (KNAW student assistants project)
- Networks, Social Media and Institutional Reforms in Organizational and Macro-Economic Crisis Situations (KNAW student assistants project)
- Knowledge Sharing for the Rural Poor (KNAW student assistant project) (2014)
- Grassroots: Faculty award for Teaching Innovation (2010)

Teaching³

- **BKO (Basis Kwalificatie Onderwijs 2007)**

- **University Courses (teaching)**

- Information Retrieval 2006, 2007, 2008 (setup 2005)
- Web-based Knowledge Representation, Semantic Web 2006, 2007, 2008, 2009, 2013
- Automated Reasoning in AI 2005, 2006, 2007, 2008, 2009, 2014 (setup 2005)
- AI Kaleidoskoop 2009, 2010, 2011, 2012
- Knowledge Based Systems 2011
- Intelligent Web Applications 2009, 2010
- Introduction to LI 2012, 2013 (setup in 2012)
- Intelligent Systems 2013, 2014 (setup in 2013)
- ICT4D 2013, 2014
- Mentoraat 2006, 2007, 2008, 2009

- **University Courses (course development)**

- Automated Reasoning in AI
- Information Retrieval
- Intelligent Systems
- Introduction Lifestyle Informatics

- **Extra Courses**

- SIKS: Automated Reasoning. May 2007.
- Semantic Web ESSLLI 2005
- Automated Reasoning: SIKS (Course Director)
- Web-based systems: a semantic perspective: SIKS (Course director) 2009
- Linked Data for Development (Tutorial ISWC 2012)
- KD4D (Tutorial EKAW 2014)

- **PhD supervision**

- Al Idrissou (ongoing)
- Filip Ilievski (ongoing)
- Albert Merono Penuela (ongoing)
- Laurens Rietveld (ongoing)
- Wouter Beek (ongoing)
- Szymon Klarman (defended 2013)
- Wouter van Atteveld (defended 2008)

- **Supervision MSc Students**

- Thomas Bohlken (ongoing)
- Rick de Leeuw (2013)

³Almost all of the courses have been given jointly with varying colleagues.

- Steven Weller (2012)
- Laurens Rietveld (2011)
- Ruben Weber (2011)
- Valentina Maccatrozzo (2011)
- Amanuel Alemayehu (2009)
- Kathrin Dentler (2009)
- Balthasar Schopman (2009)
- Dennis Lokkers (2009)
- Lars Anliker (2008)
- Ciske Boekelo (2008)
- Thomas Rodenburg (2008)
- Thomas Alderse Baas (2008)
- Michiel Hobbelman (2008)
- Marius Olsthoorn (2007)
- Semen Simkin (2005)

- **Supervision BSc Students**

- 2014: Ronald Bethlehem, Leon de Zwart, Gleb Satyukov, Baudouin Duthoit, Havard Lundberg
- 2013: Carsten Kruijswijk, Pepijn Kroes, Eric Lubbers, Aron de Jong, Boris Mulder

- **Tutor for BAC**

- Anna Bon (2015)
- Victor de Boer (2014)

Administrative Duties

- **Previous**

- Exam commission: member of fraude commission
- Lid VPR commission
- Lid Docententeam IMM, Docententeam AI, Docententeam Year 1,
- Various VPR activities (task-force, voorlichting, module development, DemoCD AI etc)
- BAC: Computational Intelligence (2014)
- BAC: Vision (Uva) (2013/14)
- Organiser KION scriptie prijs 2004

- **Ongoing**

- Head of Teaching Committee: BSc LI and MSc AI (OCLI)
- Head of UvA/VU committee for the new joint Master AI
- Member Verkeningscommissie 2 UvA/VU teaching
- Master co-ordinator Master Artificial Intelligence for International Students
- Docententeam Year 2-3

Personal Information

- Nationality: German
- Date of Birth: March 13, 1969
- Marital Status: Married
- Children: A son and a daughter

Languages

- German (mother tongue)
- English (fluent)
- French (fluent)
- Dutch (fluent)

Journals

1. Christophe Guret, Victor de Boer, Stefan Schlobach: Let's "Downscale" Linked Data. *IEEE Internet Computing* 18(2): 70-73 (2014)
2. Emanuele Della Valle, Stefan Schlobach, Markus Krtzsch, Alessandro Bozzon, Stefano Ceri, Ian Horrocks: Order matters! Harnessing a world of orderings for reasoning over massive data. *Semantic Web* 4(2): 219-231 (2013)
3. Christophe Guret, Stefan Schlobach, Kathrin Dentler, Martijn C. Schut, Gusztai Eiben: Evolutionary and Swarm Computing for the Semantic Web. *IEEE Comp. Int. Mag.* 7(2): 16-31 (2012)
4. Balthasar A. C. Schopman, Shenghui Wang, Antoine Isaac, Stefan Schlobach: Instance-Based Ontology Matching by Instance Enrichment. *J. Data Semantics* 1(4): 219-236 (2012)
5. Shenghui Wang, Antoine Isaac, Stefan Schlobach, Lourens van der Meij, Balthasar A. C. Schopman: Instance-based Semantic Interoperability in the Cultural Heritage. *Semantic Web* 3(1): 45-64 (2012)
6. Stefan Schlobach, Craig A. Knoblock: Dealing with the Messiness of the Web of Data. *J. Web Sem.* 14: 1 (2012) 2011
7. Christophe Guret, Shenghui Wang, Paul T. Groth, Stefan Schlobach: Multi-Scale Analysis of the Web of Data: a Challenge to the Complex System's Community. *Advances in Complex Systems* 14(4): 587-609 (2011)
8. Szymon Klarman, Ulle Endriss, Stefan Schlobach: ABox Abduction in the Description Logic ALC. *J. Autom. Reasoning* 46(1): 43-80 (2011)
9. Shenghui Wang, Stefan Schlobach, Michel C. A. Klein: Concept drift and how to identify it. *J. Web Sem.* 9(3): 247-265 (2011)
10. Antoine Isaac, Shenghui Wang, Claus Zinn, Henk Mattheizing, Lourens van der Meij, Stefan Schlobach: Evaluating Thesaurus Alignments for Semantic Interoperability in the Library Domain. *IEEE Intelligent Systems* 24(2): 76-86 (2009)

11. A Isaac, S Schlobach, H Mattheizing, C Zinn: Integrated access to cultural heritage resources through representation and alignment of controlled vocabularies. *Library Review* 57 (3), 187-199 (Highly Commended Award 2009).
12. W Van Atteveldt, J Kleinnijenhuis, N Ruigrok, S Schlobach. Good news or bad news? Conducting sentiment analysis on Dutch text to distinguish between positive and negative relations. *Journal of Information Technology & Politics* 5 (1), 73-94
13. Stefan Schlobach, David Ahn, Maarten de Rijke, Valentin Jijkoun: Data-driven type checking in open domain question answering. *J. Applied Logic* 5(1): 121-143 (2007)
14. Stefan Schlobach, Zhisheng Huang, Ronald Cornet, Frank van Harmelen: Debugging Incoherent Terminologies. *J. Autom. Reasoning* 39(3): 317-349 (2007)
15. Maarten Marx, Szabolcs Mikuls, Stefan Schlobach: Tableau Calculus for Local Cubic Modal Logic and its Implementation. *Logic Journal of the IGPL* 7(6): 755-778 (1999)

Main Conferences

1. Wouter Beek, Laurens Rietveld, Hamid Bazoubandi, Jan Wielemaker, Stefan Schlobach "LOD Laundromat: A Uniform Way of Publishing Other People's Dirty Data" In: The 13th International Semantic Web Conference (2014)
2. Laurens Rietveld, Rinke Hoekstra, Stefan Schlobach (2014) Structural Properties as Proxy for Semantic Relevance in RDF Graph Sampling. In: The 13th International Semantic Web Conference (2014)
3. Wouter Beek, Stefan Schlobach, Frank van Harmelen: Rough Set Semantics for Identity on the Web. KR 2014
4. Wouter Beek, Paul T. Groth, Stefan Schlobach, Rinke Hoekstra: A web observatory for the machine processability of structured data on the web. WebSci 2014: 249-250
5. Johanna Volker, Stefan Schlobach: A Summary of the Workshop and Tutorial Program at ESWC 2013. ESWC (Satellite Events) 2013: 1-4
6. Philipp Cimiano, Miriam Fernandez, Vanessa Lopez, Stefan Schlobach, Johanna Vlker (Eds.): The Semantic Web: ESWC 2013 Satellite Events - ESWC 2013 Satellite Events, Montpellier, France, May 26-30, 2013, Revised Selected Papers. *Lecture Notes in Computer Science* 7955, Springer 2013, ISBN 978-3-642-41241-7
7. Irene Celino, Emanuele Della Valle, Markus Krtzsch, Stefan Schlobach (Eds.): Proceedings of the 2nd International Workshop on Ordering and Reasoning, OrdRing 2013, Co-located with the 12th International Semantic Web Conference (ISWC 2013), Sydney, Australia, October 22nd, 2013. *CEUR Workshop Proceedings* 1059, CEUR-WS.org 2013 2012
8. Szymon Klarman, Stefan Schlobach, Luciano Serafini: Formal Verification of Data Provenance Records. *International Semantic Web Conference* (1) 2012: 215-230 2011
9. Jacopo Urbani, Frank van Harmelen, Stefan Schlobach, Henri E. Bal: QueryPIE: Backward Reasoning for OWL Horst over Very Large Knowledge Bases. *International Semantic Web Conference* (1) 2011: 730-745 2010
10. Shenghui Wang, Stefan Schlobach, Michel C. A. Klein: What Is Concept Drift and How to Measure It? *EKAW* 2010: 241-256
11. Shenghui Wang, G Englebienne, C Gueret, S Schlobach, A Isaac, M Schut: Similarity features, and their role in concept alignment learning. *SEMAPRO 2010, The Fourth International Conference on Advances in Semantic* (Best Paper Award)

12. Christophe Guret, Paul T. Groth, Frank van Harmelen, Stefan Schlobach: Finding the Achilles Heel of the Web of Data: Using Network Analysis for Link-Recommendation. International Semantic Web Conference (1) 2010: 289-304
13. Shenghui Wang, Janet Heleen Takens, Wouter van Atteveldt, Stefan Schlobach: Extensional Mapping-Chains for Studying Concept Drift in Political Ontologies. In Proceedings of 2010 Conference of the International Communication Association (ICA2010), June 2010, Singapore. (One of three best faculty papers of the Information System division)
14. Gaston Tagni, Stefan Schlobach, Annette ten Teije, Frank van Harmelen, Giorgios Karafotias: A Workbench for Anytime Reasoning by Ontology Approximation - With a case study on instance retrieval. STAIRS 2010: 328-340
15. Szymon Klarman, Stefan Schlobach: Relativizing Concept Descriptions to Comparison Classes. Description Logics 2009
16. Shenghui Wang, Antoine Isaac, Balthasar A. C. Schopman, Stefan Schlobach, Lourens van der Meij: Matching Multi-lingual Subject Vocabularies. ECDL 2009: 125-137
17. Antoine Isaac, Dirk Kramer, Lourens van der Meij, Shenghui Wang, Stefan Schlobach, Johan Stapel: Vocabulary Matching for Book Indexing Suggestion in Linked Libraries - A Prototype Implementation and Evaluation. International Semantic Web Conference 2009: 843-859
18. Shenghui Wang, Stefan Schlobach, Janet Takens, Wouter van Atteveldt: Mapping-chains for Studying Concept Shift in Political Ontologies. OM 2009
19. Balthasar A. C. Schopman, Shenghui Wang, Stefan Schlobach: Deriving Concept Mappings through Instance Mappings. ASWC 2008: 122-136
20. Antoine Isaac, Henk Matthezing, Lourens van der Meij, Stefan Schlobach, Shenghui Wang, Claus Zinn: Putting Ontology Alignment in Context: Usage Scenarios, Deployment and Evaluation in a Library Case. ESWC 2008: 402-417
21. Eyal Oren, Christophe Guret, Stefan Schlobach: Anytime Query Answering in RDF through Evolutionary Algorithms. International Semantic Web Conference 2008: 98-113
22. Shenghui Wang, Gwenn Englebienne, Stefan Schlobach: Learning Concept Mappings from Instance Similarity. International Semantic Web Conference 2008: 339-355
23. Christophe Guret, Eyal Oren, Stefan Schlobach, Martijn C. Schut: An Evolutionary Perspective on Approximate RDF Query Answering. SUM 2008: 215-228
24. Zhisheng Huang, Stefan Schlobach, Frank van Harmelen, Nuria Casellas, Pompeu Casanovas: Dynamic Aspects of OPJK Legal Ontology. Computable Models of the Law, Languages, Dialogues, Games, Ontologies 2008: 113-129
25. Christophe Guret, Pascal Hitzler, Stefan Schlobach (Eds.): Proceedings of the First International Workshop on Nature Inspired Reasoning for the Semantic Web, Karlsruhe, Germany, October 27, 2008. CEUR Workshop Proceedings 419, CEUR-WS.org
26. Linda Peelen, Michel C. A. Klein, Stefan Schlobach, Nicolette de Keizer, Niels Peek: Analyzing Differences in Operational Disease Definitions Using Ontological Modeling. AIME 2007: 297-302
27. Wouter van Atteveldt, Stefan Schlobach, Frank van Harmelen: Media, Politics and the Semantic Web. ESWC 2007: 205-219
28. Stefan Schlobach, Michel C. A. Klein, Linda Peelen: Description Logics with Approximate Definitions - Precise Modeling of Vague Concepts. IJCAI 2007: 557-562

29. Antoine Isaac, Lourens van der Meij, Stefan Schlobach, Shenghui Wang: An Empirical Study of Instance-Based Ontology Matching. ISWC/ASWC 2007: 253-266
30. Michel C. A. Klein, Peter Mika, Stefan Schlobach: Rough Description Logics for Modeling Uncertainty in Instance Unification. URSW 2007
31. Stefan Schlobach, E. Blaauw, M. El Kebir, Annette ten Teije, Frank van Harmelen, S. Bortoli, M. C. Hobbelman, K. Millian, Y. Ren, S. Stam, P. Thomassen, R. C. van het Schip, W. van Willigem: Anytime Classification by Ontology Approximation. New Forms of Reasoning for the Semantic Web 2007
32. Shenghui Wang, Antoine Isaac, Lourens van der Meij, Stefan Schlobach: Multi-concept Alignment and Evaluation. OM
33. Marjolein van Gendt, Antoine Isaac, Lourens van der Meij, Stefan Schlobach: Semantic Web Techniques for Multiple Views on Heterogeneous Collections: A Case Study. ECDL 2006: 426-437 2005
34. Stefan Schlobach: Diagnosing Terminologies. AAI 2005: 670-675
35. Wouter van Atteveldt, Stefan Schlobach: A Modal View on Polder Politics. We Will Show Them! (1) 2005: 89-104
36. Stefan Schlobach: Debugging and Semantic Clarification by Pinpointing. ESWC 2005: 226-240
37. David Ahn, Valentin Jijkoun, Karin Mller, Maarten de Rijke, Stefan Schlobach, Gilad Mishne: Making Stone Soup: Evaluating a Recall-Oriented Multi-stream Question Answering System for Dutch. CLEF 2004: 423-434
38. Stefan Schlobach, Marius Olsthoorn, Maarten de Rijke: Type Checking in Open-Domain Question Answering. ECAI 2004: 398-402
39. Stefan Schlobach: Explaining Subsumption by Optimal Interpolation. JELIA 2004: 413-425
40. David Ahn, Valentin Jijkoun, Gilad Mishne, Karin Mller, Maarten de Rijke, Stefan Schlobach: Using Wikipedia at the TREC QA Track. TREC 2004
41. Stefan Schlobach, Ronald Cornet: Explanation of Terminological Reasoning: A Preliminary Report. Description Logics
42. Stefan Schlobach, Ronald Cornet: Non-Standard Reasoning Services for the Debugging of Description Logic Terminologies. IJCAI 2003: 355-362
43. Valentin Jijkoun, Gilad Mishne, Christof Monz, Maarten de Rijke, Stefan Schlobach, Oren Tsur: The University of Amsterdam at the TREC 2003 Question Answering Track. TREC 2003: 586-593