



Fabian M. Suchanek

INRIA Paris Saclay, bureau 116 ▶
4, rue Jacques Monod, 91893 ORSAY Cedex, France
<http://suchanek.name> ▶
fabian@suchanek.name ▶

Research Interests

Ontologies, Information Extraction, Semantic Web, Automated Reasoning

Professional Experience

- 2010 **Researcher** (reporting to Prof. Dr. Serge Abiteboul ▶)
INRIA Paris Saclay, France ▶
- 2009 **Visiting Researcher** (reporting to Dr. Rakesh Agrawal ▶)
Microsoft Research, Search Labs in Mountain View, CA, USA ▶
- 2007 **Intern** (mentored by Dr. Milan Vojnović ▶)
Microsoft Research Cambridge, UK (3 months) ▶

Education

- 2008 **PhD in Computer Science** (supervised by Prof. Dr. Gerhard Weikum ▶)
Max-Planck Institute for Informatics, Saarbrücken, Germany ▶
Thesis: "Automated Construction and Growth of a Large Ontology" ▶
Grade: *summa cum laude*
Honorable Mention of the SIGMOD Jim Gray Doctoral Dissertation Award ▶
- 2005 **Master of Science in Computer Science**
University of Saarbrücken, Germany ▶
Thesis: "Ontological Reasoning for Natural Language Understanding" ▶
Grade: 1.0, *excellent with distinction*
Winning the Günther Hotz award for the top computer science graduates ▶
- 2003 **Bachelor of Science in Cognitive Science**
University of Osnabrück, Germany ▶
Thesis: "Representing Ontological Structures in CLOS, Java and FAST" ▶
Grade: 1.0, *excellent with distinction*
- 2000 **Community Service**
Protestant Hospital Lippstadt, Germany ▶
- 1999 **University Entrance Diploma (Abitur)**
Marienschule Lippstadt, Germany ▶
Grade: 1.0, *second of 120 people*

Research Activities at Microsoft

I was working in the Microsoft Research Search Labs team on the shopping portal of the Bing search engine.

- I was responsible for the User Interface and the Knowledge Representation of the prototype system.
- Together with two colleagues, I submitted a patent on commerce search user interfaces.
- I developed techniques for automated product extraction from the Web, which will soon ship in a Microsoft product.

Research Activities at the Max-Planck Institute

Highlights **My most cited paper is [▷ YAGO \(WWW 2007\)](#) with [▷ 250+](#) citations**
My newest publication in this area is [▷ SOFIE \(WWW 2009\)](#)

[Ontology Construction](#)

Description I designed methods for automatically constructing a large ontology from Wikipedia and WordNet: [▷ YAGO](#). YAGO gave rise to the [▷ YAGO-NAGA](#) project, in which several researchers work on key questions of semantic information processing. Today, YAGO is used in several major ontology projects, such as Freebase, DBpedia, SUMO.

Publications **[YAGO - A Core of Semantic Knowledge](#) [▷](#)**
Fabian M. Suchanek, Gjergji Kasneci, Gerhard Weikum
International World Wide Web conference (WWW 2007)

[YAGO - A Large Ontology from Wikipedia and WordNet](#) [▷](#)
Fabian M. Suchanek, Gjergji Kasneci, Gerhard Weikum
Elsevier Journal of Web Semantics

[Integrating YAGO into the Suggested Upper Merged Ontology](#) [▷](#)
Gerard de Melo, Fabian M. Suchanek, Adam Pease (4p poster)
International Conference on Tools with Artificial Intelligence (ICTAI 2008)

[Automated Reasoning](#)

Description I have worked on projecting complex expressions to Disjunctive Logic Programs. With SOFIE, I showed how automated reasoning can be used for ontological knowledge extraction.

Publications **[SOFIE: A Self-Organizing Framework for Information Extraction](#) [▷](#)**
Fabian M. Suchanek, Mauro Sozio, Gerhard Weikum
International World Wide Web conference (WWW 2009)

[Automated Reasoning and Common Sense](#) [▷](#)
Fabian M. Suchanek
Book of my Master's Thesis, ISBN-13: 978-3639003932

Automated Reasoning Support for First Order Ontologies ▷

Peter Baumgartner, Fabian M. Suchanek

Workshop on Principles and Practice of Semantic Web Reasoning. LNCS, Springer, 2006.

[Information Extraction from Natural Language Documents](#)

Description I have worked on extracting information from natural language texts. My tool, ▷
LEILA, uses natural language processing and statistical learning to learn robust pat-
terns in text.

Publications **Combining Linguistic and Statistical Analysis to Extract Relations from Web Documents** ▷
Fabian M. Suchanek, Georgiana Ifrim, Gerhard Weikum (6p poster)
Conference on Knowledge Discovery and Data Mining (SIGKDD 2006)

LEILA: Learning to Extract Information by Linguistic Analysis ▷

Fabian M. Suchanek, Georgiana Ifrim, Gerhard Weikum

Workshop on Ontology Learning and Population at COLING/ACL (OLP 2006)

TOB: Timely Ontologies for Business Relations ▷

Qi Zhang, Fabian M. Suchanek, Lihua Yue, Gerhard Weikum

International Workshop on Web and Databases (WebDB 2008)

[Applications of the Ontology](#)

Description I have worked on applications of the YAGO ontology in the areas of semantic search
(▷ NAGA, STAR), hybrid search (▷ ESTER), social tagging (▷ TagBooster) and
Web Service Integration (▷ ANGIE).

Publications **NAGA: Searching and Ranking Knowledge** ▷
Gjergji Kasneci, Fabian M. Suchanek, Georgiana Ifrim, Maya Ramanath, Gerhard Weikum
International Conference on Data Engineering (ICDE 2008)

ESTER: Efficient Search on Text, Entities and Relations ▷

Holger Bast, Alexandru Chitea, Fabian M. Suchanek, Ingmar Weber

International Conference on Information Retrieval (SIGIR 2007)

Social Tags: Meaning and Suggestions ▷

Fabian M. Suchanek, Milan Vojnovic, Dinan Gunawardena

Conference on Information and Knowledge Management (CIKM 2008)

STAR: Steiner Tree Approximation in Relationship-Graphs ▷

Gjergji Kasneci, Maya Ramanath, Mauro Sozio, Fabian M. Suchanek, Gerhard Weikum

International Conference on Data Engineering (ICDE 2009)

Active Knowledge: Dynamically Enriching RDF Knowledge Bases by Web Services (ANGIE)

Nicoleta Preda, Gjergji Kasneci, Fabian M. Suchanek, Thomas Neumann, Wenjun Yuan

International Conference on Management of Data (SIGMOD 2010)

[Surveys](#)

- Publications **Knowledge Discovery over the Deep Web, Semantic Web and XML** ▶
 Aparna Varde, Fabian M. Suchanek, Richi Nayak, Pierre Senellart
 Tutorial at Database Systems for Advanced Applications (DASFAA 2009)
- The Future of DB and IR** ▶
 Gerhard Weikum, Gjergji Kasneci, Fabian M. Suchanek, Maya Ramanath
 Communications of the ACM (CACM 2008)
- The YAGO-NAGA Approach to Knowledge Discovery** ▶
 Gjergji Kasneci, Fabian M. Suchanek, Maya Ramanath, Gerhard Weikum
 SIGMOD Records (SIGMOD Rec 2008)

Awards and Scholarships

- 2010 Honorable Mention of the SIGMOD Jim Gray Doctoral Dissertation Award ▶
- 2010 Otto Hahn Assistant Professorship ▶
 (3+2 year funding of a small research group by the Max Planck Society)
- 2010 Otto Hahn Medal ▶
 (Award of the Max Planck Society for my dissertation, 5000 EUR)
- 2005 - 2008 Research Training Group (Graduiertenkolleg) ▶
 (Scholarship of the German Research Foundation (DFG) for the PhD)
- 2005 Günter Hotz Award
 (Award for being among the 3 best graduate computer science students
 of the academic year at the University of Saarbrücken, 1000 EUR)
- 2004 International Max-Planck Research School (IMPRS) ▶
 (Scholarship of the Max-Planck Society for the Master of Science)
- 2001 - 2008 e-fellows.net
 (Private sector online scholarship, supported by Deutsche Telekom, McKinsey et al.)

Service Activities

- 2010 Journal of Web Semantics (JWS)
- 2010 PC member of the Int. Conf. on Artificial Intelligence (AAAI 2010)
- 2010 PC member of the Int. Conf. on Web Information Systems and Technologies (WEBIST 2010)
- 2009 International Conference on Web Search and Data Mining (WSDM 2010)
- 2009 International Conference on Data Engineering (ICDE 2010)
- 2009 Conf. of the European Ch. of the Association for Computational Linguists (EACL 2009)
- 2008 European Semantic Web Conference (ESWC 2008)
- 2007 IEEE Journal on Transactions On Knowledge And Data Engineering (TKDE 2007)
- 2006 International Conference on Knowledge Discovery and Data Mining (SIGKDD 2006)

Teaching Experience

- 2008 Supervising a Master's Student (9 months)
- 2003 Teaching Assistant for a course on Algorithms and Data Structures (12 weeks)
University of Saarbrücken, Germany ▷
- 2003 Teaching Assistant for a course on Prolog (12 weeks)
University of Osnabrück, Germany ▷
- 2002 Teaching an unofficial course "Introduction à Java" (6 weeks) ▷
University Pierre Mendès-France Grenoble, France ▷

Invited Talks

- 2010 INRIA Saclay, France ▷ (successful application talk)
- 2010 Microsoft Research Cambridge, UK ▷ (successful application talk)
- 2010 University of Oxford, UK ▷ (successful application talk)
- 2009 Politecnico di Milano, Italy ▷ (successful application talk)
- 2008 Microsoft Research Silicon Valley, California, USA ▷ (successful application talk)
- 2008 University of Karlsruhe, Germany ▷ (successful application talk)
- 2008 L3S Research Center, Hannover, Germany ▷
- 2008 University of Osnabrück, Germany ▷
- 2008 German Research Center for Artificial Intelligence, Kaiserslautern, Germany ▷

Further Education

- 2010 Qualified for the French Maître de Conférences
- 2006 Seminar on the Business Technology Office of McKinsey ▷
- 2002 Semester abroad at the University Pierre Mendès-France, Grenoble, France ▷
studying Technologies de la Connaissance ▷
- 1999 Global Young Leaders Conference in New York, USA ▷
- 1998 German-Italian political-social education in Aachen, Germany

Languages (formal)

C# & ASP.NET	expert
Java	expert
C++, PASCAL, LISP	basic knowledge
BASIC, Assembler	basic knowledge

Languages (natural)

German	fluent	(mother tongue)
English	fluent	(language of work and study)
French	fluent	(1 semester in France)
Italian	good knowledge	(8 semesters of study, Unicert 2)
Spanish	good knowledge	(8 semesters of study, Unicert 2)
Latin	basic knowledge	(3 years at school, Latinum)

Extracurricular Activities

2007 - 2008	Member of the Examination Commission for Computer Science University of Saarbrücken, Germany ▶
2008	Teaching a dancing course (18 weeks) ▶ Max-Planck Institute for Informatics, Saarbrücken, Germany ▶
2007 - 2008	Students' speaker of the Research Training Group (Graduiertenkolleg) ▶
2007	Teaching a dancing course (10 weeks) ▶ Max-Planck Institute for Informatics, Saarbrücken, Germany ▶
2003 - 2008	Member of the Students' Union for Computer Science ▶ University of Saarbrücken, Germany ▶
2001 - 2003	Founding member of the Students' Union for Cognitive Science ▶ University of Osnabrück, Germany ▶

Personal

Nationality	German
Other activities	Ballroom dancing, biking, choir singing

References

Available upon request ▶