

# CURRICULUM VITAE

SARAH ALICE GAGGL

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## ADDRESS

Institute of Artificial Intelligence  
Computational Logic Group  
Technische Universität Dresden  
Nöthnitzerstraße 46  
01069 Dresden  
Germany  
Phone: +49-(0)351-463-38679  
Email: sarah.gaggl@tu-dresden.de  
Homepage: [http://www.inf.tu-dresden.de/?node\\_id=3382](http://www.inf.tu-dresden.de/?node_id=3382)

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## PERSONAL DETAILS

Gender: Female  
Date of birth: 22th of February, 1980  
Place of birth: Villach, Austria  
Present Citizenship: Austria

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## EDUCATION

- 04/2009–03/2013 PhD in Computer Science at the Vienna University of Technology; graduation as Doctor in *Technical Sciences* with distinction.  
Thesis: *A Comprehensive Analysis of the cf2 Argumentation Semantics: From Characterization to Implementation*; Supervisors: Privatdoz.Dr. Woltran and Ao.Univ.Prof.Dr. Uwe Egly.
- 08/2010 22nd European Summer School in Logic, Language and Information (ESSLLI 2010), Denmark, Copenhagen, August 9–20, 2010.
- 08/2009 Advanced Course in Artificial Intelligence (ACAI 2009), GB, Belfast, August 23–29, 2009.
- 07/2009 21st European Summer School in Logic, Language and Information (ESSLLI 2009), France, Bordeaux, July 20–31, 2009.
- 2001–2009 Student of Computer Science at the Vienna University of Technology; graduation as a Bachelor of Science (BSc) in

*Medicine and Computer Science*, and graduation as a Master of Science (MSc) in *Computational Intelligence* with distinction.

Thesis: *Solving Argumentation Frameworks using Answer Set Programming*; Supervisor: Ao.Univ.Prof.Dr. Uwe Egly.

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## WORKING EXPERIENCE AND REVIEWING

Since 04/2013 Postdoctoral researcher at the *Computational Logic Group* of the *Institute of Artificial Intelligence* at the Technische Universität Dresden.

04/2009-09/2012 Research Assistant at the *Database and Artificial Intelligence Group* of the *Institute of Information Systems* at the Vienna University of Technology.

Project title: *New Methods for Analyzing, Comparing, and Solving Argumentation Problems*; Supervisor: Privatdoz. Dr. Stefan Woltran.

Supported by the WWTF under grant ICT 08-028.

- PC member of: 7th International Conference on Agents and Artificial Intelligence (ICAART 2015); 1st International Workshop on Argument for Agreement and Assurance (AAA 2013); 14th International Workshop on Computational Logic in Multi-Agent Systems (CLIMA XIV); Journal of Logic and Computation Special, Special Issue on Loops in Argumentation (JLCLoops13); Journal of Logic and Computation, Special Issue on 20 years of Argument-based Inference (JLCabi11).
- Reviewing for international journals, conferences and workshops including: Artificial Intelligence Journal (AIJ); 15th International Workshop on Non-Monotonic Reasoning (NMR 2014); International Conference on Logic Programming (ICLP 2013); International Semantic Web Conference (ISWC2013); 20th European Conference on Artificial Intelligence (ECAI 2012), 8th Reasoning Web Summer School 2012, 4th International Conference on Agents and Artificial Intelligence (ICAART 2012), 25th Conference on Artificial Intelligence (AAAI 2011), 11th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR 2011), 1st International Workshop on the Theory and Applications of Formal Argumentation (TAFA 2011), 19th European Conference on Artificial Intelligence (ECAI 2010), 20th International Conference on Automated Reasoning with Analytic Tableaux and Related Methods (Tableaux 2011)

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## AWARDS

2013 Nominated for *Hannspeter Winter-Preis*.

06/2012 *Best Student Paper Prize* at the 14th International Workshop on Non-Monotonic Reasoning (NMR 2012) for the article *Incorporating Stage Semantics in the SCC-recursive Sche-*

*ma for Argumentation Semantics*, joint work with Wolfgang Dvořák.

09/2010 *Best Student Paper Award* at the International Conference on Computational Models of Argument (COMMA 2010) for the paper *cf2 Semantics Revisited*.

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## RESEARCH VISITS

03/2011 Prof. Ken Satoh, National Institute of Informatics (NII), Tokyo, Japan.

12/2009 Group of Prof. Gerd Brewka, Univ. Leipzig, Germany.

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## GRANTS AND INTERNSHIPS

- COST Travel Grant for attending the Doctoral Consortium at KR 2012.
  - COST Travel Award for attending the London Argumentation Forum (LAF) in April 2012.
  - IJCAI Travel Grant for attending IJCAI 2011.
  - International Internship at National Institute of Informatics (NII), Tokyo, Japan, 2011.
  - ECCAI Travel Award for attending ACAI 2009.
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## INVITED TALKS AND PRESENTATIONS

- *Computational Aspects of the stage2 Argumentation Semantics*. Research talk at the EPCL-Basic Training Camp. TU-Dresden, November 13th, 2013.
- *Incorporating the Stage Semantics in the SCC-recursive Schema for Argumentation Semantics*. London Argumentation Forum (LAF). King's College, London, April 20, 2012.
- *Making Use of Advances in Answer-Set Programming for Abstract Argumentation Systems*. Computational Logic and Knowledge Representation Workshop. Invited Talk. UPS University, IRIT, Toulouse, France, October 21-22, 2011.
- *Strong Equivalence for Argumentation Semantics based on Conflict-free Sets*. Argumentation Christmas Meeting. Presentation. Vienna University of Technology, Austria, December 7-8, 2010.

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## TEACHING EXPERIENCE

At the TU-Dresden

- Problem Solving and Search in Artificial Intelligence, summer term 2014.
- Seminar Abstract Argumentation, winter term 2013.
- Foundations of Logic Programming, winter term 2013.
- Foundations of Constraint Programming, winter term 2013.
- Project Group Computational Logic.

At the Vienna University of Technology.

- Co-supervised master thesis: Christian Weichselbaum - “Argumentation and Answer-Set Programming Modelling the Resolution-Based Grounded Semantics” 2013.
  - Seminar “Logic Seminar”, (3.0 ECTS), summer term (ST) 2012.
  - Exercises for the course “Introduction to Knowledge-based Systems”, (5.0 ECTS), ST 2012.
  - Exercises for the course “Introduction to Artificial Intelligence”, (3.0 ECTS), ST 2012.
  - Course “Abstract Argumentation”, (4.5 ECTS), winter term (WT) 2011/12.
  - Teaching Assistant for Laboratory Exercise “Introduction to Knowledge-based Systems”, (1.5 ECTS), WT 2008/09.
  - Teaching Assistant for Laboratory Exercise “Logic-oriented Programming”, (3.0 ECTS), ST 2008.
  - Teaching Assistant for Lecture and Exercise “Fundamentals of Computer Science”, (6.0 ECTS), ST 2002–2008, WT 2005/06–2008/09.
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## PUBLICATIONS

- [20] S. A. Gaggl, H. Strass. Decomposing Abstract Dialectical Frameworks. COMMA 2014, accepted for publication.
- [19] W. Dvořák, S. A. Gaggl. Stage semantics and the SCC-recursive schema for argumentation semantics. To appear in *Journal of Logic and Computation (JLC)* in the special issue on *Loops in Argumentation*, 2014.
- [18] S. A. Gaggl, S. Woltran. The cf2 Argumentation Semantics Revisited. In *Journal of Logic and Computation*, 23(5):925-949, 2013.
- [17] G. Charwat, W Dvořák, S. A. Gaggl, J. P. Wallner and S. Woltran. Implementing Abstract Argumentation - A Survey. Technical Report DBAI-TR-2013-82, Technische Universität Wien, 2013.
- [16] W. Dvořák, S. A. Gaggl. Computational Aspects of cf2 and stage2 Argumentation Semantics. In *Proceedings of the 4th International Conference on Computational Models of Argument (COMMA 2012)*, Vienna, Austria, September 10-12, 2012, volume 245 of *Frontiers in Artificial Intelligence and Applications*, pages 273–284. IOS Press, 2012.
- [15] W. Dvořák, S. A. Gaggl. Incorporating Stage Semantics in the SCC-recursive Schema for Argumentation Semantics. In *Proceedings of the 14th International Workshop on Non-Monotonic Reasoning (NMR 2012)*, Rome, Italy, June 8-10, 2012.
- [14] W. Dvořák, S. A. Gaggl. Incorporating Stage Semantics in the SCC-recursive Schema for Argumentation Semantics. Technical Report DBAI-TR-2012-78, Technische Universität Wien, 2012.
- [13] W. Dvořák, S. A. Gaggl, S. Szeider, S. Woltran. Benchmark Libraries for Argumentation. In S. Ossowski, editor, *Agreement Technologies*, volume 8 of *LGTS*, chapter The Added Value of Argumentation, pages 389–393. Springer 2012.
- [12] S. A. Gaggl, S. Woltran. The cf2 Argumentation Semantics Revisited. Technical Report DBAI-TR-2012-77, Technische Universität Wien, 2012.
- [11] W. Dvořák, S. A. Gaggl, J. P. Wallner, S. Woltran. Making Use of Advances in Answer-Set Programming for Abstract Argumentation Systems. In *Proceedings of 19th International Conference on Applications of Declarative Programming and Knowledge Management (INAP 2011)*, Vienna, Austria, 2013.
- [10] W. Dvořák, S. A. Gaggl, J. P. Wallner, S. Woltran. Making Use of Advances in Answer-Set Programming for Abstract Argumentation Systems. Technical Report DBAI-TR-2011-70, Technische Universität Wien, 2011.
- [9] S. A. Gaggl, S. Woltran. Strong Equivalence for Argumentation Semantics based on Conflict-free Sets. In *Proceedings of 11th European Conference on Symbolic and Quantitative Approaches to Reasoning with Uncertainty (ECSQARU 2011)*, Belfast, Ireland, pages 38–49, 2011.
- [8] S. A. Gaggl, S. Woltran. Strong Equivalence for Argumentation Semantics based on Conflict-free Sets. Sarah Gaggl, and Stefan Woltran. Technical Report DBAI-TR-2011-68, Technische Universität Wien, 2011.
- [7] S. A. Gaggl, S. Woltran. cf2 Semantics Revisited. In *Proceedings of the Third International Conference on Computational Models of Argument (COMMA 2010)*, Desenzano del Garda, Italy, volume 216 of *Frontiers in Artificial Intelligence and Applications*, pages 243–254. IOS Press, 2010.

- [6] S. A. Gaggl. Towards a General Argumentation System based on Answer-Set Programming. In *ICLP (Technical Communications) 2010*: 265–269.
- [5] U. Egly, S. A. Gaggl, S. Woltran. Answer-Set Programming Encodings for Argumentation Frameworks. In *Argument and Computation*, 1(2): 147–177 (2010).
- [4] S. A. Gaggl. ASPARTIX: A System for Computing Different Argumentation Semantics in Answer-Set Programming; *Advanced Course in Artificial Intelligence (ACAI 2009)*, Belfast, Ireland; Poster.
- [3] U. Egly, S. A. Gaggl, S. Woltran. ASPARTIX: Implementing Argumentation Frameworks Using Answer-Set Programming. *Proceedings of the 24th International Conference on Logic Programming (ICLP 2008)*, Udine, Italy pages 734-738. Springer LNCS 5366, 2008.
- [2] U. Egly, S. A. Gaggl, S. Woltran. Answer-Set Programming Encodings for Argumentation Frameworks. *1st Workshop on Answer Set Programming and other Computing Paradigms (ASPOCP 2008)*, Udine, Italy, 2008.
- [1] U. Egly, S. A. Gaggl, S. Woltran. Answer-Set Programming Encodings for Argumentation Frameworks. Technical Report DBAI-TR-2008-62, Technische Universität Wien, 2008.

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LANGUAGE KNOWLEDGE

<b>German</b>	native
<b>English</b>	very good
<b>Spanish</b>	excellent

Dresden, September 4, 2014