

Stefan Ellmauthaler

Curriculum Vitae

Personal Data

Degrees Dipl.-Ing. (comparable to MSc), BSc
Date and place of birth May 8, 1986, Vienna
Citizenship Austrian citizen
Marital status unmarried
Address Birkenstraße 9
04177 Leipzig
Germany

Education

since 10/2012 **Doctoral study** of Computer Science at the Leipzig University
Supervisor: Prof. Dr. Gerhard Brewka

2009–2012 **Master study (Dipl.-Ing.)**, “Computational Intelligence” at the Vienna University of Technology, with distinction.

Master’s thesis
Abstract Dialectical Frameworks: Properties, Complexity, and Implementation
Privatdoz. Dipl.-Ing. Dr.techn. Stefan Woltran (supervisor)
Proj.Ass. Dipl.-Ing. Johannes Peter Wallner, BSc (assistance)

2005–2009 **Bachelor study (BSc)**, “Medicine and Computer Science” at the Vienna University of Technology.

2000–2005 **“Matura” certificate (Higher School Certificate)**, at the HTBLuVA Wiener Neustadt, Department “EDVO”.
School to gain the matriculation standard in conjunction with expertise in the field of informatics and business management (graduation at the 13th school year)

Further Education

07/2014 **Doctoral Consortium at the fourteenth conference of Knowledge Representation and Reasoning (KR) 2014**, Vienna, Topic: Argumentation for Reactive Reasoning.

06/2013 **Advanced Course on AI (ACAI) 2013 summer school**, London.

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Employment History

- since 10/2012 **Research associate**, *Leipzig University*, Computer Science Institute, Intelligent Systems Group.
Employed at DFG-projects of the Research Unit “*Hybrid Reasoning for Intelligent Systems*”
- 03/2011 **Project employee**, *Vienna University of Technology*.

Academic Working Experience

- since 2015 **Research associate and administrative officer for Leipzig**.
employed at the
- Hybris-A2: Advanced Solving Technology for Dynamic and Reactive Applications project
- of the German Research Group (DFG) at the Research Unit “*Hybrid Reasoning for Intelligent Systems*” (FOR 1513)
- 10/2012 – 2015 **Research associate and administrative officer for Leipzig**.
employed at the projects
- Hybris-A2: Advanced Solving Technology for Dynamic and Reactive Applications
 - Hybris-B2: From Correlation to Causality: Hybrid Reasoning Over Dynamic Protein Interaction Networks
- of the German Research Group (DFG) at the Research Unit “*Hybrid Reasoning for Intelligent Systems*” (FOR 1513)

Reviewing

- Program Committee COMMA 2016, SAFA 2016, IJCAI 2015 (KR Track)
- Reviewing (Conferences & Workshops) Reviewing for IJCAI 2017, IJCAI 2016, ICLP 2016, SAFA 2016, IJCAI 2015, IULP 2015, AAI 2014, ECAI 2014, ReactKnow 2014, ICCSW 2014, ICLP 2013, and ICCSW 2013
- Journal Reviewing IfCoLog Journal of Logics and their Applications

Professional Activities

Organiser of the *International Workshop on Reactive Concepts in Knowledge Representation (ReactKnow 2014)*, co-located with the *European Conference on Artificial Intelligence (ECAI 2014)* at Prague, Czech

Organiser of the *International Workshop on User-Oriented Logic Programming (IULP 2015)*, co-located with the *International Conference on Logic Programming (ICLP 2015)* at Cork, Ireland

Organiser of the *2nd International Workshop on User-Oriented Logic Paradigms (IULP 2017)*, co-located with the *14th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR 2017)* at Espoo, Finland

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Teaching Experience

Lectures/Courses

Knowledge Based Systems, *Lecture*, 2.0h per week, summer term, covered ASP, with Gerhard Brewka, Ringo Baumann and Hannes Straß. BSc course for computer science students (ST 2015, 2016, 2017)

Knowledge Based Systems, *Exercise*, 1.0h per week, summer term, with Ringo Baumann and Hannes Straß.

BSc course for computer science students (ST 2015, 2016, 2017), lecture (2.0h per week)

Intelligent Systems, *Seminar*, 2.0h per week, winter term, with Gerhard Brewka.

BSc course for computer science students (WT 2014/15)

Knowledge Based Systems, *Exercise*, 1.0h per week, summer term, with Ringo Baumann.

BSc course for computer science students (ST 2014, 2013), lecture (2.0h per week) held by Gerd Brewka

Logic in Computer Science, *Seminar*, 2.0h per week, summer term, with Gerhard Brewka.

MSc course for computer science students (ST 2014)

Knowledge Representation, *Seminar*, 2.0h per week, winter term, with Gerhard Brewka.

MSc course for computer science students (WT 2013/14)

Semantic Web Technologies, *Seminar*, 2.0h per week, summer term, with Gerhard Brewka and Frank Loebe.

MSc course for computer science students (ST 2013)

Co-supervised bachelor's thesis at Leipzig University

ST 2014 Jakob Runge: *CARBON - a Web application and a RESTful API for argumentation*

Teaching Assistance

2006-2009 **Tutor**, *Vienna University of Technology, Institute of Computer Aided Automation.*

Tutor for the bachelor course "EProg" (Introduction to Programming)

Languages

German **native tongue**

English **fluent**

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Awards

- 07/2014 **3rd Place at the ASP Modelling Contest**, at the *International Conference on Logic Programming (ICLP) 2014 during the Vienna Summer of Logic 2014 Olympics*, Vienna, Austria.
- 08/2013 **20th PROLOG Programming Contest**, at the *International Conference on Logic Programming (ICLP) 2013*, Istanbul, Turkey.

Publications

Conferences

- [1] Stefan Ellmauthaler and Hannes Strass. DIAMOND 3.0 - A native C++ implementation of DIAMOND. In *6th International Conference on Computational Models of Argument (COMMA 2016)*, Potsdam, Germany, 12-16 September, 2016., volume 287 of *Frontiers in Artificial Intelligence and Applications*, pages 471–472. IOS Press, 2016.
- [2] Gerhard Brewka, Stefan Ellmauthaler, Ricardo Gonçalves, Matthias Knorr, João Leite, and Jörg Pührer. Inconsistency management in reactive multi-context systems. In Loizos Michael and Antonis C. Kakas, editors, *15th European Conference on Logics in Artificial Intelligence (JELIA 2016)*, volume 10021 of *Lecture Notes in Computer Science*, pages 529–535, 2016.
- [3] Stefan Ellmauthaler and Hannes Strass. The DIAMOND system for computing with abstract dialectical frameworks. In Simon Parsons, Nir Oren, Chris Reed, and Federico Cerutti, editors, *5th International Conference on Computational Models of Argument (COMMA 2014)*, volume 266 of *Frontiers in Artificial Intelligence and Applications*, pages 233–240. IOS Press, September 2014.
- [4] Gerhard Brewka, Stefan Ellmauthaler, and Jörg Pührer. Multi-context systems for reactive reasoning in dynamic environments. In Torsten Schaub, Gerhard Friedrich, and Barry O’Sullivan, editors, *21st European Conference on Artificial Intelligence (ECAI 2014)*, volume 263 of *Frontiers in Artificial Intelligence and Applications*, pages 159–164. IOS Press, 2014.
- [5] Gerhard Brewka, Stefan Ellmauthaler, Hannes Strass, Johannes Peter Wallner, and Stefan Woltran. Abstract dialectical frameworks revisited. In Francesca Rossi, editor, *Proceedings of the 23rd International Joint Conference on Artificial Intelligence (IJCAI 2013)*. IJCAI/AAAI, August 2013.
- [6] Stefan Ellmauthaler and Johannes Peter Wallner. Evaluating Abstract Dialectical Frameworks with ASP. In Bart Verheij, Stefan Szeider, and Stefan Woltran, editors, *4th International Conference on Computational Models of Argument (COMMA 2012)*, volume 245, pages 505–506. IOS Press, 2012.

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Workshops

- [7] Stefan Ellmauthaler and Jörg Pührer. Stream packing for asynchronous multi-context systems using ASP. In Thomas Eiter, Wolfgang Faber, and Stefan Woltran, editors, *Proceedings of the Workshop on Trends and Applications of Answer Set Programming (TAASP 2016)*, 2016.
- [8] Gerhard Brewka, Stefan Ellmauthaler, Ricardo Gonçalves, Matthias Knorr, João Leite, and Jörg Pührer. Towards inconsistency management in reactive multi-context systems. In Richard Booth, Giovanni Casini, Szymon Klarman, Gilles Richard, and Ivan José Varzincza, editors, *Proceedings of the International Workshop on Defeasible and Ampliative Reasoning (DARe-16) co-located with the 22th European Conference on Artificial Intelligence (ECAI 2016), The Hague, Holland, August 29, 2016.*, CEUR Workshop Proceedings. CEUR-WS.org, 2016.
- [9] Gerhard Brewka, Stefan Ellmauthaler, and Jörg Pührer. Multit-context systems for reactive reasoning in dynamic environments. In Stefan Ellmauthaler and Jörg Pührer, editors, *International Workshop on Reactive Concepts in Knowledge Representation (ReactKnow 2014)*, pages 23–30, 2014.
- [10] Stefan Ellmauthaler and Jörg Pührer. Asynchronous multi-context systems. In Stefan Ellmauthaler and Jörg Pührer, editors, *International Workshop on Reactive Concepts in Knowledge Representation (ReactKnow 2014)*, pages 31–38, 2014.
- [11] Stefan Ellmauthaler. Generalizing multi-context systems for reactive stream reasoning applications. In Andrew V. Jones and Nicholas Ng, editors, *Proceedings of the 2013 Imperial College Computing Student Workshop (ICCSW 2013)*, OpenAccess Series in Informatics (OASISs), pages 17–24. Schloss Dagstuhl–Leibniz-Zentrum fuer Informatik, September 2013.
- [12] Stefan Ellmauthaler and Hannes Strass. The DIAMOND system for argumentation: Preliminary report. In Michael Fink and Yuliya Lierler, editors, *Proceedings of the 6th International Workshop on Answer Set Programming and Other Computing Paradigms (ASPOCP 2013)*, volume abs/1312.6140, September 2013.

Academic treaties

- [13] Stefan Ellmauthaler. Abstract Dialectical Frameworks: Properties, Complexity, and Implementation. Master's thesis, Technische Universität Wien, Institut für Informationssysteme, 2012.

Other academic contributions

- [14] Stefan Ellmauthaler and Jörg Pührer. Asynchronous multi-context systems. In Thomas Eiter, Hannes Strass, Mirosław Truszczyński, and Stefan Woltran, editors, *Advances in Knowledge Representation, Logic Programming, and Abstract Argumentation - Essays Dedicated to Gerhard Brewka on the Occasion of His 60th Birthday*, volume 9060 of *Lecture Notes in Computer Science*. Springer, 2015.