

# ALEXANDER KOLLER

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## RESEARCH INTERESTS

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Formal and computational natural-language semantics and pragmatics; natural language generation; efficient algorithms in computational linguistics; formal languages; logic and its applications; situated communication and the language-robotics interface.

## PROFESSIONAL EXPERIENCE

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- since 08/08      **Head**, Research group “Efficient algorithms in computational linguistics” within the Cluster of Excellence, Saarland University.
- 09/07 – 07/08      **DFG Research Fellow**, University of Edinburgh  
09/06 – 08/07      **DFG Research Fellow**, Columbia University  
Efficient algorithms for sentence generation: Perform sentence planning and surface realization in a single integrated step by mapping them to an AI planning problem and applying modern planning techniques.
- 01/05 – 08/06      **Wissenschaftlicher Assistent** ( $\approx$  fixed-term assistant professor), Dept. of Computational Linguistics, Saarland University, Saarbrücken, Germany  
Research in computational semantics, lexical semantics, natural language generation; supervision of students; teaching duties.
- 05/99 – 12/04      **Researcher (Wissenschaftlicher Mitarbeiter)**, Saarland University  
Research on scope underspecification in computational semantics within the CHORUS project.
- 1994 – 1999      **Research assistant** in research projects on underspecification, anaphora resolution, information extraction, and theorem proving at Saarland University, German Research Center for AI (DFKI), and SRI International, Cambridge.

## EDUCATION

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- 1999 – 2004      **Dr. rer. nat. (Ph.D.), Computer Science**, Saarland University  
Dissertation: *Constraint-based and graph-based resolution of ambiguities in natural language*  
Advisors: Manfred Pinkal and Gert Smolka  
Grade: *summa cum laude* (best possible grade, rarely given)

- 1994 – 1999      **Diplom (M.Sc.) in Computational Linguistics**, Saarland University  
Grade: 1.0 (best possible grade, rarely given)
- 1994 – 1999      **Diplom (M.Sc.) in Computer Science**, Saarland University  
Grade: 1.0 (best possible grade, rarely given)
- 1996                **Vordiplome ( $\approx$  B.Sc. degrees)** in Computational Linguistics, Computer  
Science, and Mathematics

## GRANTS

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- 2008                **Small project grant**, University of Edinburgh: “Infrastructure for the GIVE  
Challenge” (with Johanna Moore and Jon Oberlander).
- 2006 – 2008      **DFG Research Fellowship**: “CRISP: Efficient integrated realization and mi-  
croplanning”.
- 2005 – 2007      **Principal Investigator**, DFG project CHORUS (within SFB 378): “Integra-  
ted Linguistic Processing with Constraints and Preferences” (with Manfred  
Pinkal and Gert Smolka).
- 2001 – 2003      **Assistant Principal Investigator**, BMBF project MiLCA: Development of  
e-learning modules for Computational Semantics, Algorithms in Computa-  
tional Linguistics, and Dialogue Systems.

## SCHOLARSHIPS AND AWARDS

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- 2001 – 2004      **Associated member**, International Research Training Group “Language  
technology and cognitive systems”: Joint PhD program between Saarland  
University and the University of Edinburgh.
- 2001                **Best Presentation Award** at the Third International Workshop on Inference  
in Computational Semantics.
- 1997 – 1999      **Scholarship** of the German National Academic Foundation (Studienstiftung  
des deutschen Volkes): National honor society for the (currently) top 0.3%  
of university students.

## PROFESSIONAL SERVICE

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- since 2009        **Editorial board**, *Computational Linguistics*
- since 2008        **Member**, Selection committee for the E. W. Beth Dissertation Prize (awar-  
ded by the European Association for Logic, Language, and Information)

- since 2007      **Secretary**, ACL Special Interest Group on Computational Semantics (SIGSEM)
- 2009      **PC member**, Tenth Annual SIGDIAL Meeting on Discourse and Dialogue (SIGDIAL-09)
- 2009      **PC member**, Tenth International Conference on Intelligent Text Processing and Computational Linguistics (CICLing-2009)
- 2008      **PC member**, COLING workshop on Human Judgements in Computational Linguistics, Manchester, UK
- 2008      **PC member**, Symposium on Semantics in Text Processing (STEP), Venice, Italy
- 2008      **PC member**, Ninth International Conference on Intelligent Text Processing and Computational Linguistics (CICLing-2008)
- 2007      **Senior PC member**, Human Language Technologies: The Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL-HLT 2007)
- 2007      **PC member**, Seventh International Workshop on Computational Semantics (IWCS-7)
- 2006      **PC co-chair**, Fifth International Workshop on Inference in Computational Semantics (with Johan Bos)
- 2006      **PC member**, 29th Annual German Conference on Artificial Intelligence (KI-2006)
- 2006      **PC member**, Seventh International Conference on Intelligent Text Processing and Computational Linguistics (CICLing-2006)
- 2004      **PC member**, Workshop on Recent Advances in Dependency Grammar at COLING
- 2003      **PC member**, Fourth International Workshop on Inference in Computational Semantics
- 2002      **Student chair**, 40th Annual Meeting of the Association for Computational Linguistics (ACL) (with Gideon Mann)  
Independent organization of the Student Research Workshop
- 2000 – 2002      **Information Officer**, European Association for Logic, Language, and Information (FoLLI)
- Reviewer** for ACL 2005, 2007, 2008; EACL 2006; HLT/NAACL 2006; COLING 2008; EMNLP 2007, 2008; CADE 2005; RTA 2002; IJCAR 2001; ECAI 2000; ESSLLI Student Sessions 2000–01, 2003–07; HLT/NAACL

Student Research Workshop 2003; EACL Demo Session 2006; CSLP Workshop 2005; Journal of Logic, Language, and Information; Linguistische Berichte; Studia Linguistica; Logic Journal of the IGPL; Review of Symbolic Logic; Computational Linguistics.

## TEACHING

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(All courses are in the Department of Computational Linguistics at Saarland University, except where noted otherwise.)

- Summer 2009      **Seminar** “Tree automata in computational linguistics”
- August 2007      **Introductory course** “Introduction to corpus-based computational semantics” (with Sabine Schulte im Walde), ESSLLI Dublin  
<http://www.ims.uni-stuttgart.de/~schulte/Teaching/ESSLLI-07/>  
Recent methods for extracting world knowledge from corpora.
- Summer 2006      **Graduate course** “Semantic Theory” (with Manfred Pinkal)  
<http://www.coli.uni-saarland.de/courses/semantics-06/>  
Montague semantics, underspecification, DRT, presupposition.
- Summer 2006      **Seminar** “Underspecification” (with Stefan Thater)  
Advanced techniques and recent research in scope underspecification.
- Winter 2005/06      **Seminar** “Corpus-based semantics” (with Katrin Erk)  
Recent methods for extracting world knowledge from corpora.
- Summer 2005      **Graduate course** “Semantic Theory” (with Manfred Pinkal)  
Montague semantics, underspecification, DRT, presupposition.
- August 2004      **Introductory course** “Computational Semantics”, ESSLLI Nancy  
(with Aljoscha Burchardt and Stephan Walter)  
Montague semantics, underspecification, inference tools.
- Summer 2004      **Software project** “Talking robots” (with Geert-Jan Kruijff)  
<http://www.coli.uni-saarland.de/courses/lego-04/>  
Teams of students designed, built, and programmed Lego robots and connected them to a dialogue system on a PC, in order to develop robots that could react to spoken commands and talk back at the user. The course was covered by regional TV and radio stations, as well as newspapers. Selected robots were presented at the Cebit computer expo, and one (a robot bartender that mixes actual cocktails) is still used as a demonstrator at the department.
- Summer 2004      **Undergraduate programming course** “Java I”  
Introduction to programming in Java.
- Winter 2002/03      **Software project** “Talking robots” (with Geert-Jan Kruijff)  
See “Talking robots” in 2004.

- Summer 2001      **Software project** “Computer Game”  
 (with Malte Gabsdil and Kristina Striegnitz)  
 The students developed an engine for a text adventure game, using techniques from computational linguistics (parsing with dependency grammars, analysis and generation of referring expressions, surface realization with tree adjoining grammars) and a description logic theorem prover.
- Winter 2000/01    **Undergraduate programming course** “C/C++” (with Oliver Plaehn)  
 Introduction to programming in C and C++. The students developed a natural-language frontend to a database system as their final project.
- August 1999      **Advanced course** “Scope Underspecification and Processing”,  
 ESSLLI Utrecht (with Joachim Niehren)  
 Scope underspecification and constraint programming.
- Guest Lectures** in other people’s courses: “Scope underspecification” (October 2006; Mike White’s “Introduction to Computational Semantics” course, Linguistics, Ohio State University); “SPUD” and “Generation as planning” (February 2008; Johanna Moore’s “Dialogue and natural language generation” course, School of Informatics, University of Edinburgh).

#### INVITED TALKS

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- August 2007      “Some thoughts about a computational semantics for the 21st century”. Evening lecture, ESSLLI, Dublin.
- June 2007        “Semantics and Inference: The computational semantics perspective”. Panel discussion on semantics and inference, SemEval workshop, Prague.
- January 2005     “Towards a Grand Unified Theory of Underspecification”. Sixth International Workshop on Computational Semantics (IWCS-6), Tilburg.
- September 2003 “Applying Description Logic: Natural Language Interaction with a Computer Game”. Description Logic Day, Nancy Inference Week (with Kristina Striegnitz).
- June 2001        “Put the galakmid into the slot then kick the dispenser: Computational Linguistics and Theorem Proving in a Computer Game”. Third International Workshop on Inference in Computational Semantics (ICOS-3), Siena.
- August 2000     “A Polynomial-Time Fragment of Dominance Constraints”. Workshop on Trees in Logic, Computer Science, and Linguistics. ESSLLI, Birmingham.

## INVITED TALKS AT OTHER UNIVERSITIES

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- July 2009 “Computing weakest readings”. Universität Tübingen.
- July 2009 “Reguläre Baumsprachen in der Computerlinguistik”. Universität Heidelberg.
- November 2008 “Reguläre Baumsprachen in der Computerlinguistik”. Universität Stuttgart.
- July 2008 “Generation as planning”. Planning group, University of Strathclyde.
- July 2008 “Referring expressions as formulas of description logic”. NLG group, University of Aberdeen.
- April 2008 “Generation as planning”, Open University.
- April 2008 “Generierung als Planungsproblem”, Universität Heidelberg.
- April 2008 “Generation as planning”. Cluster of excellence, Saarland University.
- January 2008 “Generation as planning”. Linguistics department, Cornell University.
- January 2008 “Generation as planning”. Computational linguistics colloquium, University of Potsdam.
- January 2008 “Generierung als Planungsproblem”, University of Stuttgart.
- December 2007 “Generation as planning”. LORIA, Nancy, France.
- June 2007 “Sentence generation as planning”. AI lunch, Harvard University.
- May 2007 “Underspecification comes of age”. Computational linguistics colloquium, University of Stuttgart.
- March 2007 “Sentence generation as planning”. Clunch, University of Pennsylvania.
- July 2006 “Underspecification comes of age”. Pragmatics colloquium, University of Bielefeld.
- October 2004 “Computing Locally Coherent Discourses”. PARC.
- October 2004 “Dominance Graphs: Some Gory Details”. XTAG project meeting, University of Pennsylvania.
- October 2004 “Towards a Grand Unified Theory of Underspecification”. Computer Science Colloquium, University of Iowa; Clunch, University of Pennsylvania; CLSP Seminar, Johns Hopkins University; Stanford University.
- December 2002 “Put the galakmid in the slot then kick the dispenser: Computational Linguistics and Theorem Proving in a Computer Game”. Linguistics Colloquium, University of Iowa.

May 2002	“Put the galakmid in the slot then kick the dispenser: Computational Linguistics and Theorem Proving in a Computer Game”. Carnegie Mellon University.
April 2002	“TAG Generation as Dependency Parsing”. University of Pennsylvania.
December 2001	“Scope Underspecification with Tree Descriptions”. University of Manchester.
November 2001	“Underspecified Beta Reduction”. University of Cambridge.
May 2000	“Processing Tree Descriptions”. Grammatical Theories Workshop, University of Edinburgh.
April 1998	“Tree Constraints for Semantic Underspecification”. SRI International, Cambridge, England.

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#### PUBLICATIONS IN REFEREED JOURNALS

- [1] Alexander Koller, Ralph Debusmann, Malte Gabsdil, and Kristina Striegnitz. Put my galakmid coin into the dispenser and kick it: Computational linguistics and theorem proving in a computer game. *Journal of Logic, Language, and Information*, 13(2):187–206, 2004.
- [2] Michael Kohlhase and Alexander Koller.\* Resource-adaptive model generation as a performance model. *Logic Journal of the IGPL*, 11(4):435–456, 2003.
- [3] Katrin Erk, Alexander Koller, and Joachim Niehren.\* Processing underspecified semantic descriptions in the constraint language for lambda structures. *Research on Language and Computation*, 1:127–169, 2003.
- [4] Ernst Althaus, Denys Duchier, Alexander Koller, Kurt Mehlhorn, Joachim Niehren, and Sven Thiel.\* An efficient graph algorithm for dominance constraints. *Journal of Algorithms*, 48(1):194–219, 2003.
- [5] Markus Egg, Alexander Koller, and Joachim Niehren.\* The constraint language for lambda structures. *Journal of Logic, Language, and Information*, 10(4):457–485, 2001.
- [6] Alexander Koller, Joachim Niehren, and Kristina Striegnitz.\* Relaxing underspecified semantic representations for reinterpretation. *Grammars*, 3(2–3):217–241, 2000.

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#### CONFERENCE PUBLICATIONS

(Wherever possible, I have indicated the acceptance rate of the conference in brackets. Papers marked with an asterisk have an alphabetically sorted author list.)

- [7] Alexander Koller, Stefan Thater, and Manfred Pinkal. Scope underspecification with tree descriptions: Theory and practice. In Matthew Crocker and Jörg Siekmann, editors, *Resource Adaptive Cognitive Processes*, Cognitive Technologies Series. Springer, Berlin, 2009. In press.

- [8] Alexander Koller, Kristina Striegnitz, Donna Byron, Justine Cassell, Robert Dale, Sara Dalzell-Job, Johanna Moore, and Jon Oberlander. Validating the web-based evaluation of NLG systems. In *Proceedings of ACL-IJCNLP 2009 (Short Papers)*, Singapore, 2009. (25%).
- [9] Alexander Koller and Alex Lascarides.\* A logic of semantic representations for shallow parsing. In *Proceedings of the 12th Conference of the European Chapter of the Association for Computational Linguistics (EACL)*, Athens, 2009. (28%).
- [10] Alexander Koller and Marco Kuhlmann.\* Dependency trees and the strong generative capacity of CCG. In *Proceedings of the 12th Conference of the European Chapter of the Association for Computational Linguistics (EACL)*, Athens, 2009. (28%).
- [11] Michaela Regneri, Markus Egg, and Alexander Koller. Efficient processing of underspecified discourse representations. In *Proceedings of the 46th Annual Meeting of the Association for Computational Linguistics: Human Language Technologies (ACL-08: HLT) – Short Papers*, Columbus, Ohio, 2008. (25%).
- [12] Alexander Koller, Michaela Regneri, and Stefan Thater.\* Regular tree grammars as a formalism for scope underspecification. In *Proceedings of the 46th Annual Meeting of the Association for Computational Linguistics: Human Language Technologies (ACL-08: HLT)*, Columbus, Ohio, 2008. (25%).
- [13] Carlos Areces, Alexander Koller, and Kristina Striegnitz.\* Referring expressions as formulas of description logic. In *Proceedings of the 5th International Natural Language Generation Conference*, Salt Fork, Ohio, 2008. (48%).
- [14] Alexander Koller and Matthew Stone.\* Sentence generation as planning. In *Proceedings of the 45th Annual Meeting of the Association of Computational Linguistics (ACL-07)*, pages 336–343, Prague, 2007. (22.4%).
- [15] Alexander Koller and Stefan Thater.\* An improved redundancy elimination algorithm for underspecified descriptions. In *Proceedings of the 21st International Conference on Computational Linguistics and 44th Annual Meeting of the Association for Computational Linguistics (COLING/ACL)*, pages 409–416, Sydney, 2006. (23%).
- [16] Dan Flickinger, Alexander Koller, and Stefan Thater.\* A new well-formedness criterion for semantics debugging. In *Proceedings of the 12th International Conference on Head-Driven Phrase Structure Grammar (HPSG)*, pages 129–142, Lisbon, 2005.
- [17] Alexander Koller and Geert-Jan Kruijff.\* Talking robots with LEGO Mindstorms. In *Proceedings of the 20th International Conference on Computational Linguistics (COLING)*, pages 336–342, Geneva, 2004. (38.8%).
- [18] Ruth Fuchss, Alexander Koller, Joachim Niehren, and Stefan Thater.\* Minimal recursion semantics as dominance constraints: Translation, evaluation, and analysis. In *Proceedings of the 42nd Annual Meeting of the Association for Computational Linguistics (ACL'04)*, pages 247–254, Barcelona, 2004. (25.3%).

- [19] Ralph Debusmann, Denys Duchier, Alexander Koller, Marco Kuhlmann, Gert Smolka, and Stefan Thater.\* A relational syntax-semantics interface based on dependency grammar. In *Proceedings of the 20th International Conference on Computational Linguistics (COLING)*, pages 176–182, Geneva, 2004. (38.8%).
- [20] Ernst Althaus, Nikiforos Karamanis, and Alexander Koller.\* Computing locally coherent discourses. In *Proceedings of the 42nd Annual Meeting of the Association for Computational Linguistics (ACL'04)*, pages 399–406, Barcelona, 2004. (25.3%).
- [21] Alexander Koller, Joachim Niehren, and Stefan Thater.\* Bridging the gap between underspecification formalisms: Hole semantics as dominance constraints. In *Proceedings of the 10th Conference of the European Chapter of the Association for Computational Linguistics (EACL)*, pages 195–202, Budapest, 2003. (26.5%).
- [22] Alexander Koller and Kristina Striegnitz.\* Generation as dependency parsing. In *Proceedings of the 40th Annual Meeting of the Association for Computational Linguistics (ACL)*, pages 17–24, Philadelphia, 2002. (25.7%).
- [23] Alexander Koller and Joachim Niehren.\* Constraint programming in computational linguistics. In D. Barker-Plummer, D. Beaver, J. van Benthem, and P. Scotto di Luzio, editors, *Words, Proofs, and Diagrams*. CSLI Press, Stanford, 2002.
- [24] Malte Gabsdil, Alexander Koller, and Kristina Striegnitz.\* Natural language and inference in a computer game. In *Proceedings of the 19th International Conference on Computational Linguistics (COLING)*, Taipei, 2002. (40%).
- [25] Joachim Niehren and Alexander Koller. Dominance constraints in context unification. In Michael Moortgat, editor, *Logical Aspects of Computational Linguistics, Third International Conference, LACL'98, Grenoble, France, December 14-16, 1998, Selected Papers*, volume 2014 of *Lecture Notes in Computer Science*. Springer, 2001.
- [26] Alexander Koller, Joachim Niehren, and Ralf Treinen.\* Dominance constraints: Algorithms and complexity. In Michael Moortgat, editor, *Logical Aspects of Computational Linguistics, Third International Conference, LACL'98, Grenoble, France, December 14-16, 1998, Selected Papers*, volume 2014 of *Lecture Notes in Computer Science*. Springer, 2001.
- [27] Katrin Erk and Alexander Koller.\* VP Ellipsis by Tree Surgery. In *Proceedings of the 13th Amsterdam Colloquium*, Amsterdam, 2001.
- [28] Manuel Bodirsky, Katrin Erk, Alexander Koller, and Joachim Niehren.\* Underspecified beta reduction. In *Proceedings of the 39th Annual Meeting of the Association for Computational Linguistics (ACL)*, Toulouse, 2001. (26.5%).
- [29] Manuel Bodirsky, Katrin Erk, Alexander Koller, and Joachim Niehren.\* Beta reduction constraints. In *Proceedings of the 12th International Conference on Rewriting Techniques and Applications (RTA)*, Utrecht, 2001.
- [30] Ernst Althaus, Denys Duchier, Alexander Koller, Kurt Mehlhorn, Joachim Niehren, and Sven Thiel.\* An efficient algorithm for the configuration problem of dominance graphs. In *Proceedings of the 12th ACM-SIAM Symposium on Discrete Algorithms (SODA)*, Washington, DC, 2001.

- [31] Alexander Koller and Joachim Niehren.\* On underspecified processing of dynamic semantics. In *Proceedings of the 18th International Conference on Computational Linguistics (COLING)*, Saarbrücken, 2000.
- [32] Alexander Koller, Kurt Mehlhorn, and Joachim Niehren.\* A polynomial-time fragment of dominance constraints. In *Proceedings of the 38th Annual Meeting of the Association for Computational Linguistics (ACL)*, Hong Kong, 2000.
- [33] Jan Jaspars and Alexander Koller.\* A calculus for direct deduction with dominance constraints. In *Proceedings of the 12th Amsterdam Colloquium*, Amsterdam, 1999.

#### WORKSHOP PUBLICATIONS

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- [34] Alexander Koller, Donna Byron, Justine Cassell, Robert Dale, Jon Oberlander, Johanna Moore, and Kristina Striegnitz. The software architecture for the First Challenge on Generating Instructions in Virtual Environments. In *Proceedings of the EACL-09 Demo Session*, 2009.
- [35] Donna Byron, Alexander Koller, Kristina Striegnitz, Justine Cassell, Robert Dale, Johanna Moore, and Jon Oberlander. Report on the First NLG Challenge on Generating Instructions in Virtual Environments (GIVE). In *Proceedings of the 12th European Workshop on Natural Language Generation (Special session on Generation Challenges)*, 2009.
- [36] Alexander Koller and Ronald Petrick.\* Experiences with planning for natural language generation. In *Proceedings of SPARK-08: The ICAPS-08 Scheduling and Planning Applications Workshop*, Sydney, Australia, 2008. **“Best paper”** at this workshop.
- [37] Alexander Koller and Stefan Thater.\* Solving unrestricted dominance graphs. In *Proceedings of the 12th Conference on Formal Grammar*, Dublin, 2007.
- [38] Alexander Koller and Owen Rambow.\* Relating dominance formalisms. In *Proceedings of the 12th Conference on Formal Grammar*, Dublin, 2007.
- [39] Alexander Koller, Johanna Moore, Barbara di Eugenio, James Lester, Laura Stoia, Donna Byron, Jon Oberlander, and Kristina Striegnitz. Shared task proposal: Instruction giving in virtual worlds. In Michael White and Robert Dale, editors, *Working group reports of the Workshop on Shared Tasks and Comparative Evaluation in Natural Language Generation*, 2007.
- [40] Donna Byron, Alexander Koller, Jon Oberlander, Laura Stoia, and Kristina Striegnitz.\* Generating instructions in virtual environments (GIVE): A challenge and an evaluation testbed for NLG. In Michael White and Robert Dale, editors, *Proceedings of the Workshop on Shared Tasks and Comparative Evaluation in Natural Language Generation*, Arlington, VA, 2007.
- [41] Alexander Koller and Stefan Thater.\* Towards an efficient redundancy elimination algorithm for underspecified representations. In *Proceedings of the Fifth International Workshop on Inference in Computational Semantics (ICoS-5)*, Buxton, UK, 2006.
- [42] Alexander Koller and Stefan Thater.\* The evolution of dominance constraint solvers. In *Proceedings of the ACL-05 Workshop on Software*, Ann Arbor, 2005.

- [43] Alexander Koller and Stefan Thater.\* Efficient solving and exploration of scope ambiguities. In *Proceedings of the ACL-05 Demo Session*, Ann Arbor, 2005.
- [44] Peter Dienes, Alexander Koller, and Marco Kuhlmann.\* Statistical A\* dependency parsing. In Denys Duchier, editor, *Prospects and Advances in the Syntax/Semantics Interface*, Lorraine-Saarland Workshop Series, pages 85–89, Nancy, 2003.
- [45] Malte Gabsdil, Alexander Koller, and Kristina Striegnitz.\* Playing with description logic. In *Proceedings of Second Workshop on Methods for Modalities (Application Description)*, Amsterdam, 2001.
- [46] Malte Gabsdil, Alexander Koller, and Kristina Striegnitz.\* Building a text adventure on description logic. In *Proceedings of KI-2001 Workshop on Applications of Description Logics*, Vienna, 2001.
- [47] Michael Kohlhase and Alexander Koller.\* Towards a tableaux machine for language understanding. In *Proceedings of the Second Workshop on Inference in Computational Semantics (ICoS-2)*, 2000.
- [48] Alexander Koller, Joachim Niehren, and Kristina Striegnitz.\* Relaxing underspecified semantic representations for reinterpretation. In *Proceedings of the Sixth Meeting on Mathematics of Language (MOL6)*, Orlando, Florida, 1999.
- [49] Alexander Koller. Evaluating context unification for semantic underspecification. In *Proceedings of the Third ESSLLI Student Session*, Saarbrücken, Germany, 1998.