

Simon Dobnik

1. Peer-reviewed original articles

- * Dobnik, Simon, and Robin Cooper. 2017. Interfacing language, spatial perception and cognition in Type Theory with Records. *Accepted for Journal of Language Modelling* 1–27. URL <https://gup.ub.gu.se/publication/251413>.
- Dobnik, Simon, and Robin Cooper. 2016. Restructuring restructuring. In *Formal studies in Slovenian syntax: In honor of Janez Orešnik*, ed. Franc Lanko Marušič and Rok Žaucer, number 236 in *Linguistik Aktuell/Linguistics Today (LA)*, 69–89. Amsterdam, The Netherlands: John Benjamins. URL <https://gup.ub.gu.se/publication/237237>.
- * Cooper, Robin, Simon Dobnik, Shalom Lappin, and Staffan Larsson. 2015. Probabilistic type theory and natural language semantics. *Linguistic Issues in Language Technology — LiLT* 10:1–43. URL <https://gup.ub.gu.se/publication/226922>.
- * Dobnik, Simon, Robin Cooper, and Staffan Larsson. 2013a. Modelling language, action, and perception in Type Theory with Records. In *Constraint solving and language processing: 7th international workshop, CSLP 2012, Orléans, France, September 13–14, 2012, revised selected papers*, ed. Denys Duchier and Yannick Parmentier, volume 8114 of *Lecture Notes in Computer Science*, 70–91. Springer Berlin Heidelberg. URL <https://gup.ub.gu.se/publication/190853>.
- Liakata, Maria, Shyamasree Saha, Simon Dobnik, Colin Batchelor, and Dietrich Rebholz-Schuhmann. 2012. Automatic recognition of conceptualization zones in scientific articles and two life science applications. *Bioinformatics* 28:991–1000. URL <http://dx.doi.org/10.1093/bioinformatics/bts071>.
- Smith, Cameron, Nigel Crook, Simon Dobnik, Daniel Charlton, Johan Boye, Stephen Pulman, Raul Santos de la Camara, Markku Turunen, David Benyon, Jay Bradley, Björn Gambäck, Preben Hansen, Oli Mival, Nick Webb, and Marc Cavazza. 2011. Interaction strategies for an affective conversational agent. *Presence: Teleoperators and Virtual Environments* 20:395–411. URL <https://gup.ub.gu.se/publication/155891>.

2. Peer-reviewed conference papers

- * Dobnik, Simon, and Erik de Graaf. 2017. KILLE: a framework for situated agents for learning language through interaction. In *Accepted for the 21st Nordic Conference on Computational Linguistics (NoDaLiDa)*, 1–10. Gothenburg, Sweden.
- Adouane, Wafia, and Simon Dobnik. 2017. Identification of languages in Algerian Arabic multilingual documents. In *Accepted for The Third Arabic Natural Language Processing Workshop (WANLP-2017), European Chapter of the Association for Computational Linguistics (EACL 2017)*. Valenica, Spain: The European Chapter of the Association for Computational Linguistics.
- Dobnik, Simon, Christine Howes, Kim Demaret, and John D. Kelleher. 2016. Towards a computational model of frame of reference alignment in Swedish dialogue. In *Proceedings*

of the *Sixth Swedish language technology conference (SLTC)*, ed. Johanna Björklund and Sara Stymne, 1–3. Umeå: Umeå University. URL <https://gup.ub.gu.se/publication/249973>.

Dobnik, Simon, and John D. Kelleher. 2016a. Attention-driven perceptual classification and reasoning. In *Proceedings of the Sixth Swedish language technology conference (SLTC)*, ed. Johanna Björklund and Sara Stymne, 1–3. Umeå University, Umeå. URL <https://gup.ub.gu.se/publication/249972>.

* Dobnik, Simon, and John D. Kelleher. 2016b. A model for attention-driven judgements in type theory with records. In *JerSem: The 20th Workshop on the Semantics and Pragmatics of Dialogue*, ed. Julie Hunter, Mandy Simons, and Matthew Stone, volume 20, 25–34. New Brunswick, NJ USA. URL <https://gup.ub.gu.se/publication/239476>.

Dobnik, Simon. 2016. Towards a computational model of spatial perspective taking. In *Abstracts of the workshop on Languages as Mechanisms for Interaction: Explorations and Repercussions*, 1–2. Ghent University. URL <https://gup.ub.gu.se/publication/238718>.

Larsson, Staffan, Mehdi Ghanimifard, and Simon Dobnik. 2016. Compositionality for classifiers. In *Proceedings of the sixth Swedish language technology conference (SLTC)*, ed. Johanna Björklund and Sara Stymne, 1–3. Umeå: Umeå University. URL <https://gup.ub.gu.se/publication/245867>.

Bizzoni, Yuri, and Simon Dobnik. 2016. Distributional semantic models for detection of textual entailment. In *Proceedings of the Sixth Swedish language technology conference (SLTC)*, ed. Johanna Björklund and Sara Stymne, 1–5. Umeå: Umeå University. URL <https://gup.ub.gu.se/publication/249970>.

Cooper, Robin, Stergios Chatzikyriakidis, and Simon Dobnik. 2016. Testing the FraCaS test suite. Invited talk presented by Robin Cooper, Department of Philosophy, Linguistics and Theory of Science (FLOV), University of Gothenburg, Logic and Engineering of Natural Language Semantics 13 (LENLS 13), National Institute for Japanese Language and Linguistics, Tachikawa City, Tokyo, Japan. URL <http://www.is.ocha.ac.jp/~bekki/lenls/>.

Dobnik, Simon. 2015. Interfacing language, spatial perception and cognition in type theory with records. In *ESSLLI proceedings of the TYTTLES workshop on Type Theory and Lexical Semantics proceedings of the TYTTLES workshop on Type Theory and Lexical Semantics*, ed. Robin Cooper and Christian Retoré, 1–7. ESSLLI 2015, Barcelona. URL <https://gup.ub.gu.se/publication/225300>.

Dobnik, Simon, Christine Howes, and John D. Kelleher. 2015. Changing perspective: Local alignment of reference frames in dialogue. In *Proceedings of goDIAL - Semdial 2015: The 19th Workshop on the Semantics and Pragmatics of Dialogue*, ed. Christine Howes and Staffan Larsson, 24–32. Gothenburg, Sweden. URL <https://gup.ub.gu.se/publication/224188>.

de Graaf, Erik, and Simon Dobnik. 2015. KILLE: learning objects and spatial relations with Kinect. In *Proceedings of goDIAL - Semdial 2015: The 19th Workshop on the Semantics and Pragmatics of Dialogue*, ed. Christine Howes and Staffan Larsson, 166–167. Gothenburg, Sweden. URL <https://gup.ub.gu.se/publication/224420>.

Kelleher, John D., and Simon Dobnik. 2015. A model for attention-driven judgements in Type Theory with Records. In *Proceedings of the Workshop on Interactive Meaning Construction*

at the *International Workshop on Computational Semantics (IWCS 2015)*, ed. Ruth Kempson and Matthew Purver, 13–14. Queen Mary University of London. URL <https://gup.ub.gu.se/publication/234030>, also presented at CoCoNat 2015: Conference on Computing Natural Reasoning collocated with WoLLIC: Workshop on Logic, Language, Information and Computation, 19–20 July, Indiana University, Bloomington.

Dobnik, Simon, Robin Cooper, and Staffan Larsson. 2014b. Type Theory with Records: a general framework for modelling spatial language. In *Proceedings of The Second Workshop on Action, Perception and Language (APL'2)*, ed. Simon Dobnik, Robin Cooper, and Staffan Larsson. The Fifth Swedish Language Technology Conference (SLTC), Uppsala, Sweden. URL <https://gup.ub.gu.se/publication/212633>, Also presented at the Workshop Formal Semantics Meets Cognitive Semantics (formcogsem), Radboud University, Nijmegen, The Netherlands, January 22–23 2015 and the Workshop on Language and Perception (lanpercept): Theoretical Connections and Foundations 5–6 February 2015, University of East Anglia, Norwich, UK.

Dobnik, Simon, Robin Cooper, and Staffan Larsson. 2014a. Representing different kinds of reference with Type Theory with Records. In *Proceeds of the RefNet Workshop on Psychological and Computational Models of Reference Comprehension and Production*, 2. Edinburgh: Edinburgh University Informatics Forum. URL <https://gup.ub.gu.se/publication/202956>.

Dobnik, Simon, and John D. Kelleher. 2014b. Spatial descriptions on a functional-geometric spectrum: a data-driven investigation. Symposium on Spatial Language Modules, Hanse-Wissenschaftskolleg, Delmenhorst, Germany, September 19–21 2014.

Dobnik, Simon, and John Kelleher. 2014a. Exploration of functional semantics of prepositions from corpora of descriptions of visual scenes. In *Proceedings of the Third V&L Net Workshop on Vision and Language*, 33–37. Dublin, Ireland: Dublin City University and the Association for Computational Linguistics. URL <http://www.aclweb.org/anthology/W14-5405>.

Dobnik, Simon, John D. Kelleher, and Christos Koniaris. 2014c. Priming and alignment of frame of reference in situated conversation. In *Proceedings of DialWatt - Semdial 2014: The 18th Workshop on the Semantics and Pragmatics of Dialogue*, ed. Verena Rieser and Philippe Muller, 43–52. Edinburgh. URL <http://gup.ub.gu.se/records/fulltext/200741/200741.pdf>.

Cooper, Robin, Simon Dobnik, Shalom Lappin, and Staffan Larsson. 2014a. A probabilistic rich type theory for semantic interpretation. In *Proceedings of the EACL 2014 Workshop on Type Theory and Natural Language Semantics (TTNLS)*, ed. Robin Cooper, Simon Dobnik, Shalom Lappin, and Staffan Larsson, 72–79. Gothenburg, Sweden: Association for Computational Linguistics. URL <http://www.aclweb.org/anthology/W/W14/W14-1409.pdf>.

Larsson, Staffan, Simon Dobnik, and Sebastian Berlin. 2014. Effects of speech cursor on visual distraction in in-vehicle interaction: Preliminary results. In *Proceedings of DialWatt - Semdial 2014: The 18th Workshop on the Semantics and Pragmatics of Dialogue*, ed. Verena Rieser and Philippe Muller, 208–210. URL <http://gup.ub.gu.se/records/fulltext/205412/205412.pdf>.

Dobnik, Simon, Christos Koniaris, and John D. Kelleher. 2013b. Investigating the role of priming and alignment of perspective in dialogue. In *Proceedings of the 17th Workshop on the Semantics and Pragmatics of Dialogue (DialDam)*, ed. Raquel Fernández and Amy Isard,

182–184. Amsterdam, The Netherlands: University of Amsterdam. URL <http://gup.ub.gu.se/records/fulltext/190901/190901.pdf>.

Dobnik, Simon, and Robin Cooper. 2013. Spatial descriptions in Type Theory with Records. In *Proceedings of IWCS 2013 Workshop on Computational Models of Spatial Language Interpretation and Generation (CoSLI-3)*, 1–6. Potsdam, Germany: Association for Computational Linguistics. URL <http://www.aclweb.org/anthology/W13-0701>.

Dobnik, Simon, and John D. Kelleher. 2013. Towards an automatic identification of functional and geometric spatial prepositions. In *Proceedings of PRE-CogSsci 2013: Production of referring expressions - bridging the gap between cognitive and computational approaches to reference*, 1–6. Berlin, Germany. URL <http://pre2013.uvt.nl/pdf/dobnik-kelleher.pdf>.

Liakata, Maria, Simon Dobnik, Shyamasree Saha, Colin R. Batchelor, and Dietrich Rebholz-Schuhmann. 2013. A discourse-driven content model for summarising scientific articles evaluated in a complex question answering task. In *Proceedings of the 2013 Conference on Empirical Methods in Natural Language Processing, EMNLP 2013*, 747–757. Grand Hyatt Seattle, Seattle, Washington. URL <http://aclweb.org/anthology/D/D13/D13-1070.pdf>.

Dobnik, Simon. 2012a. Coordinating spatial perspective in discourse. In *Proceedings of the 4th Swedish Language Technology Conference (SLTC 2012)*, ed. Pierre Nugues, 21–22. Lund. URL <http://gup.ub.gu.se/records/fulltext/165180.pdf>, also presented at the Workshop on Vision and Language 2012 (VL’12), University of Sheffield.

Dobnik, Simon. 2012b. Spatial descriptions in discourse: choosing a perspective. In *Proceedings of SemDial 2012 (SeineDial): The 16th Workshop on the Semantics and Pragmatics of Dialogue*, ed. Staffan Larsson Sarah Brown-Schmidt, Jonathan Ginzburg, 151–152. Université Paris-Diderot (Paris 7), Paris Sorbonne-Cité. URL http://www.illc.uva.nl/semdial/proceedings/semdial2012_seinedial_proceedings.pdf.

Dobnik, Simon, Robin Cooper, and Staffan Larsson. 2012a. Modelling language, action and perception in Type Theory with Records. In *Proceedings of the 7th International Workshop on Constraint Solving and Language Processing (CSLP’12)*, ed. Denys Duchier and Yannick Parmentier, 51–62. Orléans, France: Laboratory for Fundamental Computer Science (LIFO), University of Orléans. URL http://www.univ-orleans.fr/lifo/evenements/CSLP2012/proceedings_CSLP12.pdf.

Dobnik, Simon. 2011. Applying spatial knowledge from a scene description task to question answering. In *Proceedings of the Workshop on Computational Models of Spatial Language Interpretation and Generation (CoSLI-2) in conjunction with CogSci 2011*, ed. Joanna Hois, Robert J. Ross, John D. Kelleher, and John A. Bateman, volume 759 of *CEUR Workshop Proceedings*, 60–61. Boston, USA. URL <http://ceur-ws.org/Vol-759/paper10.pdf>.

Dobnik, Simon, Staffan Larsson, and Robin Cooper. 2011b. Toward perceptually grounded formal semantics. In *Proceedings of the Workshop on Integrating Language and Vision at NIPS 2011*. Sierra Nevada, Spain: Neural Information Processing Systems Foundation (NIPS). URL <http://gup.ub.gu.se/records/fulltext/153700.pdf>.

Dobnik, Simon, Staffan Larsson, and Robin Cooper. 2011a. From situated descriptions of spatial scenes to situated dialogue. In *Proceedings of V&L NET workshop on vision and language*. Brighton, United Kingdom: Natural Language Technology Group, University of Brighton.

URL http://www.itri.brighton.ac.uk/research/VL11/Abstracts/dobnik_etal_paper2.pdf.

Dobnik, Simon, and Stephen G Pulman. 2010. Human evaluation of robot-generated spatial descriptions. In *Proceedings of the Workshop on Computational Models of Spatial Language Interpretation (CoSLI) at Spatial Cognition 2010*, ed. Robert Ross, Joanna Hois, and John Kelleher, volume 620, 25–32. Mt. Hood/Portland, Oregon, USA: CEUR Workshop Proceedings. URL <http://ceur-ws.org/Vol-620/paper4.pdf>.

Smith, Cameron, Nigel Crook, Johan Boye, Daniel Charlton, Simon Dobnik, David Pizzi, Marc Cavazza, Stephen Pulman, Raul Santos De La Camara, and Markku Turunen. 2010. Interaction strategies for an affective conversational agent. In *Proceedings of the 10th international conference on Intelligent virtual agents (IVA 2010)*, 301–314. Berlin, Heidelberg: Springer–Verlag. URL http://dx.doi.org/10.1007/978-3-642-15892-6_31.

3. Monographs

Dobnik, Simon. 2009. Teaching mobile robots to use spatial words. Doctoral Dissertation, University of Oxford: Faculty of Linguistics, Philology and Phonetics and The Queen’s College, Oxford, United Kingdom. URL <http://www.dobnik.net/simon/documents/thesis.pdf>, <http://www.dobnik.net/simon/documents/thesis.pdf>.

Research review articles

Books and book chapters

Dobnik, Simon, Staffan Larsson, and Robin Cooper, ed. 2014d. *Proceeds of the second Workshop on action, perception and language (APL’2) at the fifth Swedish language technology conference (SLTC)*. Uppsala, Sweden: Published online. URL <http://clt.gu.se/dialogue-technology-lab/sltc2014-apl2>.

Cooper, Robin, Simon Dobnik, Shalom Lappin, and Staffan Larsson, ed. 2014b. *Proceedings of the Workshop on Type Theory and natural language semantics (TTNLS)*. Stroudsburg, PA: Association for Computational Linguistics. URL <http://www.aclweb.org/anthology/W/W14/#1400>.

Kelleher, John, Robert Ross, and Simon Dobnik, ed. 2013. *Proceedings of the IWCS 2013 workshop on computational models of spatial language interpretation and generation (CoSLI-3)*. Potsdam, Germany: Association for Computational Linguistics. URL <http://www.aclweb.org/anthology/W13-0700>.

Dobnik, Simon, Staffan Larsson, and Robin Cooper, ed. 2012b. *Proceeds of the Workshop on language, action and perception (APL) at the fourth Swedish language technology conference (SLTC)*. Lund, Sweden: Published online. URL <http://clt.gu.se/dialogue-technology-lab/sltc2012-apl>.

6. Popular science articles/presentations

Dobnik, Simon (2017) presentation at Öppet hus, Department of Philosophy, Linguistics and Theory of Science, 30 March.

Interview with Hanna Sistek about social robotics which was used in articles for Teknisk Ukeblad and Psykisk Helse (Norway), Omtanke (Sweden) and Forum (Finland), 19 May 2015

Dobnik, Simon (2015). Linguistics at FLOV. Lingolympiaden, Department of Philosophy, Linguistics and Theory of Science, Gothenburg, 22 April 2015.

Dobnik, Simon (2014). How to negotiate with a robot what is left and what is right? Vetenskapsfestivalen 2014. 8 May, Nordstan, Gothenburg.