

Sabrina Gerth

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Education:

- since 02/2007 Ph.D. student in the Graduate Program Experimental Clinical Linguistics, Department of Linguistics, University of Potsdam.
Advisor: Shravan Vasishth (Potsdam) and Gregory Kobele (Chicago)
- 10/2001 - 01/2007 M.A. Computational Linguistics and Computer Science, University of Potsdam.
Parsing with minimalist, weighted grammars and their state space representation (Magister-Thesis in German)

Experience:

- since 10/2011 Research Assistant at the Potsdam Research Institute for Multilingualism (PRIM) lead by Harald Clahsen and Claudia Felser.
- 07/2010 - 06/2011 Research Assistant, Project C1 *Contextually licensed non-canonical word order in language comprehension*, Collaborative Research Centre (SFB 632), Department of Linguistics, University of Potsdam. (project end: 30.06.11)
- 10/2007 - 10/2008 Software Developer in Java, development of server-client computer applications for the German Weather Service & World Meteorological Organization, Ernst Basler + Partner GmbH, Potsdam.
- 06/2007 - 03/2008 Graduate Assistant, Administrator of anti-plagiarism software Ephoros, Faculty of Human Sciences, University of Potsdam.
- 06/2004 - 06/2006 Student Assistant, Project D1 *Linguistic Database for Information Structure: Annotation and Retrieval*, Collaborative Research Centre (SFB 632), Institute for Linguistics, University of Potsdam.
- 07/2003 - 12/2003 Student Assistant, *USI – Artificial Language as an universal access to key concepts of Computer Science*, Institute for Computer Science, University of Potsdam. (project end: 31.12.03)

Teaching:

Summer 2010 Tutor for „Statistical Methods“ (Master's Course) taught by Prof. Dr. Shravan Vasishth, Department of Linguistics, University of Potsdam.

Publications:

beim Graben P. & Gerth S. (subm.). *Geometric representations for minimalist grammars*. Under revision at Journal of Logic, Language and Information.

Gerth S. & beim Graben P. (2009). *Unifying syntactic theory and sentence processing difficulty through a connectionist minimalist parser*. *Cognitive Neurodynamics*, 3(4), p. 297-316.

Gerth S. & beim Graben P. (2009). *Unifying syntactic theory and sentence processing difficulty through a connectionist minimalist parser*. In A. Howes, D. Peebles, R. Cooper (Eds.), 9th International Conference on Computational Modeling - ICCM2009, Manchester, UK.

beim Graben P., Gerth S. & Vasishth S. (2008). *Towards dynamical system models of language-related brain potentials*. *Cognitive Neurodynamics*, 2(3), pp. 229 - 255.

beim Graben P., Gerth S., Saddy D. & Potthast R. (2007). *Fock space representations in neural field theories*. In: N. Biggs et al. (Eds.), *Proceedings of Waves 2007*. The 8th International Conference on Mathematical and Numerical Aspects of Waves, pp. 120 - 122, Dept. of Mathematics, University of Reading.

Invited Talks:

Gerth S. & beim Graben P. (2009). *A unification of symbolic and connectionist computation - A minimalist connectionist parser*. Invited talk presented at the Syntax circle of the ZAS Berlin, 19th November, Berlin.

beim Graben P., Gerth S., Hale J.T. & Vasishth S. (2009). *Modeling processing gradients through harmonic minimalist grammars*. Talk presented by beim Graben, P. at the 10th Szklarska Poreba Workshop, March 12 - 16, Srenica (Poland).

Gerth S. (2008). *Tensor product models for language-related brain potentials*. Invited talk presented at the Dynamical Systems in Language Workshop, 08 - 09 September, University of Reading (UK).

Peer-reviewed Presentations:

Gerth S., Boston M. F., Hale J.T. & Vasishth S. (2010). *Predicting differences in sentence processing difficulty with an implemented complexity metric*. Poster presented at the 23rd CUNY Conference on Human Sentence Processing, 18 – 20 March, New York University.

Gerth S. (2009). *Trees are not necessarily green - in search of syntactic trees in the brain*. Poster presented at the 2nd interdisciplinary Ph.D. symposium of the University of Potsdam, 22nd September, Potsdam.

Gerth S. & beim Graben P. (2009). *Unifying syntactic theory and sentence processing difficulty through a connectionist minimalist parser*. Poster presented at the 9th International Conference on Computational Modeling - ICCM2009, 24 - 26 July, Manchester (UK).

Gerth S. & beim Graben P. (2009). *Syntactic Theory and Sentence Processing Difficulty: A Unification*. Poster presented at the 22nd CUNY Conference on Human Sentence Processing, 26 - 28 March, Davis (CA).

Gerth S., beim Graben P. & Vasishth S. (2009). *Tensor product models for language-related brain potentials*. Poster presented at the 16th Annual Meeting of the Cognitive Neuroscience Society, 21 - 24 March, San Francisco (CA).

Gerth S., beim Graben P. & Vasishth S. (2008). *Tensor product models for language-related brain potentials*. Poster presented at *the 21st CUNY Conference on Human Sentence Processing*, 13 - 15 March, Chapel Hill (NC).

beim Graben P., Gerth S. & Vasishth S. (2008). *Modeling language-related brain potentials by dynamical recognizers*. Poster presented at *the 21st CUNY Conference on Human Sentence Processing*, 13 - 15 March, Chapel Hill (NC).

Grants:

06/2011 – 09/2011 Fellowship (3 months) awarded by the Collaborative Research Centre (SFB 632), University of Potsdam.

10/2008 – 06/2010 Fellowship (1,5 years) awarded by the Graduate Program for Experimental Clinical Linguistics, University of Potsdam.

07/2010 Fellowship (6 month) awarded by the Potsdam Graduate School, University of Potsdam. (denied)

Skills:

Languages Native German, Fluent English, Advanced French, Advanced Italian
Programming Matlab, Java, R, C++, XML, Perl, Prolog, Lisp, Pascal

21. October 2011