

Bodo Winter

University of California, Merced, Cognitive & Information Sciences
5200 North Lake Road
Merced, CA 95343
209-355-8735

bodo@bodowinter.com
<http://www.bodowinter.com>

EDUCATION

- University of California, Merced, Cognitive & Information Sciences** 2011-
Ph.D., expected date: May 2015
- Max Planck Institute for Evolutionary Anthropology, Dept. of Linguistics** 2010-2011
Doctoral fellow
- University of Hawai'i at Mānoa, Dept. of Linguistics** 2009-2010
M.A., awarded: May 2010
- University of Cologne, Dept. of General Linguistics, Institute of Phonetics, Seminar of Philosophy** 2006-2009
Magister

PEER-REVIEWED JOURNAL PAPERS

- Winter, B., & Urban, A.** (under review). From eggs to testicles, but not the other way round—how word frequency reflects lexical asymmetries. *Cognition*.
- Winter, B., & Wedel, A.** (under review). The co-evolution of speech and the lexicon: The interaction of functional pressures, redundancy and category variation. *Topics in Cognitive Science*.
- Winter, B., & Matlock, T., Shaki, S., & Fischer, M.** (submitted). Number space in three dimensions. *Neuroscience & Biobehavioral Reviews*.
- Mason, P., Dominguez, D., J.F., **Winter, B.**, & Grignolio, A. (2015). Hidden in plain view: Degeneracy in complex systems. *BioSystems*, 128, 1-8.
- Winter, B., & Marghetis, T., & Matlock, T.** (2015). Of magnitudes and metaphors: Explaining cognitive interactions between space, time and number. *Cortex*, 64, 209-224.
- Winter, B.** (2014). Spoken language achieves robustness and evolvability by exploiting degeneracy and neutrality. *BioEssays*, 36, 960-967.
- Winter, B.** (2014). Horror movies and the cognitive ecology of primary metaphors. *Metaphor & Symbol*, 29, 151-170.

- Brown, L., **Winter, B.**, Idemaru, K., & Grawunder, S. (2014). Phonetics and politeness: Perceiving Korean Honorific and non-honorific speech through phonetic cues. *Journal of Pragmatics*, 66, 45-60.
- Huette, S., **Winter, B.**, Matlock, T., Ardell, D. H., & Spivey, M. H. (2014). Eye movements during listening reveal spontaneous grammatical processing. *Frontiers in Psychology*, 5: 410.
- Röttger, T., **Winter, B.**, Grawunder, S., Kirby, J., & Grice, M. (2014). Assessing the incomplete neutralization of final devoicing in German. *Journal of Phonetics*, 43, 11-25.
- Winter, B.**, Perlman, M., & Matlock, T. (2014). Using space to talk and gesture about numbers: Evidence from the TV News Archive. *Gesture*, 13, 377-408.
- Bentz, C., & **Winter, B.** (2013). Languages with more second language learners tend to lose nominal case. *Language Dynamics & Change*, 3:1, 1-27.
- Lancia, L., & **Winter, B.** (2013). The interaction between competition, learning and habituation dynamics in speech perception. *Laboratory Phonology*, 4:1, 221-257.
- Winter, B.**, & Matlock, T. (2013). Making judgments based on similarity and proximity. *Metaphor & Symbol*, 28:4, 219-232.
- Huette, S., **Winter, B.**, Matlock, T., & Spivey, M. J. (2012). Processing motion implied in language: eye-movement differences during aspect comprehension. *Cognitive Processing*, 13:1, 193-197.
- Winter, B.**, & Bergen, B. (2012). Language comprehenders represent object distance both visually and auditorily: evidence for the immersed experienter view. *Language and Cognition*, 4:1, 1-16.
- Winter, B.**, & Grawunder, S. (2012). The phonetic profile of Korean formality. *Journal of Phonetics*, 40, 808-815.
- Winter, B.** (2010). A note on the higher phylogeny of Austronesian. *Oceanic Linguistics*, 49:1, 282-287.

PEER-REVIEWED BOOK CHAPTERS AND PROCEEDINGS PAPERS

- Matlock, T., & **Winter, B.** (2015). Experimental semantics. In B. Heine and H. Narrog (Eds.), *Oxford Handbook of Linguistic Analysis* (pp. 771-790). Oxford: Oxford University Press.
- Falke, J., **Winter, B.**, & Spivey, M. J. (2013). Candle-candle-candle-candy: Continuous attraction towards previously seen phonological competitors. In M. Knauff, M. Pauen, N. Sebanz, & I. Wachsmuth (Eds.), *Proceedings of the 35th Annual Conference of the Cognitive Science Society* (pp. 2261-2266). Austin, TX: Cognitive Science Society.
- Winter, B.**, & Matlock, T. (2013). Creativity and the sensorimotor grounding of mathematics. In M. Borkent, M. Dancygier, & J. Hinnell (Eds.), *Language and the Creative Mind* (pp. 37-48). Stanford, CA: CSLI Publications.
- Winter, B.**, & Matlock, T. (2013). More is up... and right: Random number generation along two axes. In M. Knauff, M. Pauen, N. Sebanz, & I. Wachsmuth (Eds.), *Proceedings of the 35th Annual Conference of the Cognitive Science Society* (pp. 3789-3974). Austin, TX: Cognitive Science Society.
- Winter, B.**, Thompson, G., & Urban, M. (2013). Cognitive factors motivating the evolution of word meanings: Evidence from corpora, behavioral data and encyclopedic network structure. In E. A.

- Cartmill, S. Roberts, H. Lyn, & H. Cornish (Eds.), *10th International Conference on the Evolution of Language* (pp. 353-360). New Jersey: World Scientific.
- Bentz, C., & **Winter, B.** (2012). The impact of L2 speakers on the evolution of case marking. In T. C. Scott-Phillips, M. Tamariz, E. A. Cartmill, & J. R. Hurford (Eds.), *Proceedings of the 9th International Conference on the Evolution of Language* (pp. 58-63). New Jersey: World Scientific.
- Winter, B.**, & Christiansen, M. H. (2012). Robustness as a design feature of speech communication. In T. C. Scott-Phillips, M. Tamariz, E. A. Cartmill, & J. R. Hurford (Eds.), *Proceedings of the 9th International Conference on the Evolution of Language* (pp. 384-391). New Jersey: World Scientific.
- Aralova, N., Grawunder, S., & **Winter, B.** (2011). The acoustic correlates of tongue root vowel harmony in Even (Tungusic). In W.-S. Lee, & E. Zee (Eds.), *Proceedings of the International Congress of Phonetic Science* (pp. 240-243). Hong Kong: City University of Hong Kong.
- Grawunder, S., **Winter, B.**, & Atoyebi, J. (2011). Voicing of labiovelar stops in Yoruba. In W.-S. Lee, & E. Zee (Eds.), *Proceedings of the International Congress of Phonetic Science* (pp. 767-770). Hong Kong: City University of Hong Kong.
- Röttger, T., **Winter, B.**, & Grawunder, S. (2011). The robustness of incomplete neutralization in German. In W.-S. Lee, & E. Zee (Eds.), *Proceedings of the International Congress of Phonetic Science* (pp. 1722-1725). Hong Kong: City University of Hong Kong.
- Winter, B.** (2011). Pseudoreplication in phonetic research. In W.-S. Lee, & E. Zee (Eds.), *Proceedings of the International Congress of Phonetic Science* (pp. 2137-2140). Hong Kong: City University of Hong Kong.
- Winter, B.**, & Grawunder, S. (2011). The polite voice in Korean: searching for acoustic correlates of *contaymal* and *panmal*. In H.-M. Sohn, H. M. Cook, W. O'Grady, L. A. Serafim, & S.-Y. Cheon (Eds.), *Japanese/Korean Linguistics 19* (pp. 419-431). Stanford: CSLI.
- Winter, B.** & Röttger, T. (2011). The nature of incomplete neutralization: Implications for laboratory phonology. *Grazer Linguistische Studien*, 76, 55-74.
- Grama, J., & **Winter, B.** (2010). The duality of a homosexual epithet in sports. *Proceedings of the Annual Language, Linguistics and Literature Graduate Student Conference*. Honolulu, April 2011.
- Grawunder, S., & **Winter, B.** (2010). Acoustic correlates of politeness: prosodic and voice quality measures in polite and informal speech of Korean and German speakers. *Speech Prosody*. Chicago, May 2010.
- Winter, B.** (2010). The moving target argument and the speed of evolution. In: Smith, A.D., Schouwstra, M., de Boer, B., & Smith, K. (Eds.), *Proceedings of the 8th International Conference on the Evolution of Language* (pp. 352-359). New Jersey: World Scientific.
- Winter, B.**, & Grawunder, S. (2009). The physics of politeness: Approaching Korean politeness from a phonetic perspective. *Proceedings of the 24th Conference of the Association for Korean Studies in Europe*. Leiden, June 2009.

MANUSCRIPTS AND ONLINE TUTORIALS

Winter, B., & Jaeger, F. (in prep.). Mixed models for the analysis of experimental data: Recommendations for best practice.

Winter, B., Perlman, M., & Matlock, T. (in prep.). Tiny numbers are actually tiny: Precision grips map onto implied quantity.

Winter, B. (2013). Linear models and linear mixed effects models in R with linguistic applications. *arXiv:1308.5499*.

Winter, B. (2012). Solving the Monty Hall problem with simulations: A super-simple intro to loops and if statements in R.

Winter, B. (2012). A simple Markov model in R.

Winter, B. (2011). Understanding the F distribution and the principle behind ANOVAs.

REVIEWS

Winter, B. (2015). Review of James J. Mischler III. 2014. Metaphor across Time and Conceptual Space: The interplay of embodiment and cultural models. *Cognitive Linguistics*.

INVITED TALKS

University of Oregon, East Asian Studies & Literatures
- Linguistic politeness in Korean: Phonetics and multimodality 2014

Vrije Universiteit Brussel, Artificial Intelligence Lab
- Lexical structure reflects conceptual structure 2014

University of Cologne, Cologne Center of Language Sciences
- Dynamic structuring in language and communication: The many meanings of dynamic (co-presented with Doris Mücke, University of Cologne, Institute of Phonetics) 2014

University of California, Berkeley, CogNetwork Colloquium Series
- Metaphor and math: Talking, gesturing and thinking about numbers in terms of space 2014

University of California, Berkeley, Phorum Colloquium Series
- Categorical perception is not that categorical 2013

University of Arizona, Dept. of Linguistics
- Categorical perception is not that categorical 2013

RWTH Aachen University, HumTec, Natural Media and Engineering Group
- Recent experimental approaches to Conceptual Metaphor Theory 2012

- Max Planck Institute for Evolutionary Anthropology**, Dept. of Linguistics
 - Languages with many second language speakers tend to have reduced case systems 2012
- University of Cologne**, Dept. of General Linguistics
 Languages with many second language speakers tend to have reduced case systems 2012
- University of Cologne**, Institute of Phonetics
 - Robustness as a design principle of phonetic systems 2012
- RWTH Aachen University**, HumTec, Natural Media and Engineering Group
 - Recent topics in simulation semantics 2011
- Max Planck Institute for Evolutionary Anthropology**, Dept. of Linguistics
 - Voicing of labiovelar /gb/ and /kp/ in Yoruba 2011
- Max Planck Institute for Evolutionary Anthropology**, Dept. of Linguistics
 - The phonetic profile of Korean politeness 2010
 - Robustness as a design feature of language 2010
- University of Cologne**, Institute of Phonetics
 - The nature of incomplete neutralization in German 2011

PEER-REVIEWED CONFERENCE PRESENTATIONS

- Daguna, J., & **Winter, B.** (2014). Metaphor & social distance: The conceptual structure of courtroom design. *12th Conceptual Structure, Discourse, and Language Conference (CSDL)*. Santa Barbara, November 2014.
- Matlock, T., & **Winter, B.** (2014). Space in primary metaphors. Satellite workshop "Metaphor: From embodied cognition to discourse." *10th RaAM (Researching and Applying Metaphor)*. Cagliari, June 2014.
- Winter, B.** (2014). Horror movies and the cognitive ecology of primary metaphors. *10th RaAM (Researching and Applying Metaphor)*. Cagliari, June 2014.
- Winter, B.** (2014). Neutral spaces and the evolvability of spoken language. *10th International Conference on the Evolution of Language; Satellite workshop on evolution of signals, speech and signs*. Vienna, April 2014.
- Winter, B.**, Ardell, D., & Urban, M. (2014). Polysemy, language use and directionality in semantic change. *12th Conceptual Structure, Discourse, and Language Conference (CSDL)*. Santa Barbara, November 2014.
- Winter, B.**, Daguna, J., & Matlock, T. (2014). How embodied metaphors of social distance may affect courtroom decisions. *7th Embodied and Situated Language Processing Conference*. Rotterdam, August 2014.
- Winter, B.**, Perlman, M., & Matlock, T. (2014). Tiny numbers are actually tiny: Precision grips map onto implied quantity. *6th Conference of the International Society for Gesture Studies*. San Diego, July 2014.

- Winter, B.**, Thompson, G., & Urban, M. (2014). Cognitive factors motivating the evolution of word meanings: Evidence from corpora, behavioral data and encyclopedic network structure. *10th International Conference on the Evolution of Language*. Vienna, April 2014.
- Coe, C., & **Winter, B.** (2013). ARGUMENT IS WAR metaphors in current politics. *12th International Cognitive Linguistics Conference*. Edmonton, July 2013.
- Falke, J., **Winter, B.**, & Spivey, M. J. (2013). Candle-candle-candle-candy: Continuous attraction towards previously seen phonological competitors. *2nd Cognition and Language Workshop*. Santa Barbara, September 2013.
- Winter, B.**, Perlman, M., & Matlock, T. (2013). How do people talk and gesture about numbers?: Evidence from TV News Casts. *6th Embodied and Situated Language Processing Conference*. Potsdam, August 2013.
- Winter, B.**, & Matlock, T. (2013). Testing SIMILARITY IS PROXIMITY in realistic reasoning situations. *12th International Cognitive Linguistics Conference*. Edmonton, July 2013.
- Bentz, C., & **Winter, B.** (2012). The impact of L2 speakers on the evolution of case marking. *9th International Conference on the Evolution of Language*. Kyoto, March 2012.
- Winter, B.**, & Christiansen, M. (2012). Robustness as a design feature of speech communication. *9th International Conference on the Evolution of Language*. Kyoto, March 2012.
- Winter, B.**, & Matlock, T. (2012). More is bigger: Physical size in mental arithmetic. *11th Conceptual Structure, Discourse, and Language Conference (CSDL)*. Vancouver, May 2012.
- Aralova, N., Grawunder, S., & **Winter, B.** (2011). The acoustic correlates of tongue root vowel harmony in Even (Tungusic). *International Congress of Phonetic Science*. Hong Kong, August 2011.
- Grawunder, S., **Winter, B.**, & Atoyebi, J. (2011). Voicing of labiovelar stops in Yoruba. *International Congress of Phonetic Science*. Hong Kong, August 2011.
- Huette, S., **Winter, B.**, Matlock, T., & Spivey, M. J. (2011). Spatiotemporal fixation differences on a blank screen during aspect comprehension. *CUNY Conference on Human Sentence Processing*. Stanford, March 2011.
- Röttger, T., **Winter, B.**, & Grawunder, S. (2011). The robustness of incomplete neutralization in German. *International Congress of Phonetic Science*. Hong Kong, August 2011.
- Winter, B.** (2011). Pseudoreplication in phonetic research. *International Congress of Phonetic Science*. Hong Kong, August 2011.
- Grama, J., & **Winter, B.** (2010). The duality of a homosexual epithet in sports. *The Annual Language, Linguistics and Literature Graduate Student Conference at the University of Hawai'i at Manoa*. Honolulu, April 2010.
- Winter, B.** (2010). The moving target argument and the speed of evolution. *8th International Conference on the Evolution of Language*. Utrecht, April 2010.
- Winter, B.**, & Grawunder, S. (2010). The Frequency Code revisited: Are the universalist claims substantiated? *Conference on Phonetic Universals*. Leipzig, October 2010.
- Winter, B.**, & Grawunder, S. (2009). The polite voice in Korean: Searching for acoustic correlates of *contaymal* and *panmal*. *19th Japanese/Korean linguistics conference*. Honolulu, November 2009.

Winter, B., & Grawunder, S. (2009). The physics of politeness: Approaching Korean politeness from a phonetic perspective. *24th Conference of the Association for Korean Studies in Europe*. Leiden, June 2009.

Winter, B., & Grawunder, S. (2009). The physics of politeness: Approaching Korean politeness from a phonetic perspective. *31. Jahrestagung der Deutschen Gesellschaft für Sprachwissenschaft*. Osnabrück, March 2009.

CONFERENCE POSTERS

- Coe, C., **Winter, B.**, & Matlock, T. (2014). How sticks and stones metaphorically break bones in presidential elections. *7th Embodied and Situated Language Processing Conference*. Rotterdam, August 2014.
- Matlock, T., Bergmann, T., Banks, C., Perlman, M., & **Winter, B.** (2014). The TV News Archive: An innovative new tool for gesture research. *6th Conference of the International Society for Gesture Studies*. San Diego, July 2014.
- Winter, B.** (2014). Speech is characterized by robustness, neutrality and evolvability. *10th International Conference on the Evolution of Language*. Vienna, April 2014.
- Winter, B.**, Thompson, G., & Urban, M. (2014). Synchronic reflections of the evolution of word meanings. *Nijmegen Lecture Series poster session*. Nijmegen, January 2014.
- Coe, C., & **Winter, B.**, Munroe, N., & Matlock, T. (2013). ARGUMENT IS WAR metaphors in current politics. *2nd Cognition and Language Workshop*. Santa Barbara, September 2013.
- Falke, J., **Winter, B.**, & Spivey, M. J. (2013). Candle-candle-candle-candy: Continuous attraction towards previously seen phonological competitors. *2nd Cognition and Language Workshop*. Santa Barbara, September 2013.
- Falke, J., **Winter, B.**, & Spivey, M. J. (2013). Candle-candle-candle-candy: Continuous attraction towards previously seen phonological competitors. *35th Annual Conference of the Cognitive Science Society*. Berlin, August 2008.
- Winter, B.**, Brown, L., Idemaru, K., & Grawunder, S. (2013). Perceiving politeness from speech acoustics alone: A cross-linguistic study on Korean and English. *166th Meeting of the Acoustical Society of America*. San Francisco, December 2013.
- Winter, B.** & Matlock, T. (2013). More is up... and right: Random number generation along two axes. *35th Annual Conference of the Cognitive Science Society*. Berlin, August 2008.
- Röttger, T., **Winter, B.**, Kirby, J., & Grice, M. (2012). Incomplete neutralization – a cognitive artifact of lexical co-activation? *Laboratory Phonology*. Stuttgart, July 2012.
- Grawunder, S., & **Winter, B.** (2010). Acoustic correlates of politeness: prosodic and voice quality measures in polite and informal speech of Korean and German speakers. *Speech Prosody*. Chicago, May 2010.
- Huette, S., **Winter, B.**, Matlock, T., & Spivey, M. J. (2010). The time course of perceptual simulation in the comprehension of aspect. *CSDL / ESLP*. San Diego, September 2010.
- Winter, B.**, & Grawunder, S. (2010). Finale Dehnung und Verzögerungssignale in koreanischen Höflichkeitsregistern. *P&P Phonetik und Phonologie*. Frankfurt, October 2010.
- Winter, B.**, & Bergen, B. (2010). Simulation of visual and auditory distance in sentence processing. *CUNY 2010, Conference on Human Sentence Processing*. New York, March 2010.
- Winter, B.**, & Bergen, B. (2009). Language-driven mental simulation of distance. *15th Annual Conference on Architectures and Mechanisms for Language Processing*. Barcelona, September 2009.

ADDITIONAL TRAINING

UC Davis

- Advanced Training Institute, Structural Equation Modeling 2013
- Advanced Training Institute, Exploratory Data Mining 2013

University of Cincinnati

- Advanced Training Institute, Nonlinear Methods 2013

University of Michigan

- Linguistic Society of America Institute 2013

University of Berkeley

- Linguistic Society of America Institute 2013

Utrecht University

- Linguistics Summerschool 2009

University of Leipzig & Max Planck Institute for Evolutionary Anthropology

- Spring School in Linguistic Diversity 2008

TEACHING

University of California, Merced, Cognitive & Information Sciences

- Mathematical Cognition, Instructor of record 2014

RWTH Aachen University, Institut für Anglistik, Amerikanistik und Romanistik

- Regression Modeling for Linguists (three-day workshop) 2014

Vrije Universiteit Brussel, Artificial Intelligence Lab

- Linear Models and Mixed Models (two-day workshop) 2014

University of Cologne, Institute of Phonetics

- Data Mining Experimental and Corpus Data (three-day workshop) 2014
- Dynamical Systems and Statistical Modeling of Trajectories (three-day workshop) 2014

University of Cologne, Institut für deutsche Sprache und Literatur

- Regression Modeling for Linguists (four-day course) 2014
- Introduction to Statistics for Linguists (four-day course) 2014

University of Arizona, Dept. of Linguistics

- Generalized Linear Mixed Models for Linguists (three-day workshop) 2013

Aarhus University, Dept. of Aesthetics and Communication

- Generalized Linear Mixed Models (three-day workshop) 2013

University of Cologne , Institut für deutsche Sprache und Literatur - Generalized Linear Mixed Models for Linguists (<u>three-day workshop</u>)	2013
University of California, Merced , Cognitive & Information Sciences - Metaphor & Thought, Teaching assistant	2013
- Research Methods, Teaching assistant	2013
University of Cologne , Institute of Phonetics - Generalized Linear Mixed Models for Phoneticians (<u>three-day workshop</u>)	2012
University of California, Merced , Cognitive & Information Sciences - Metaphor & Thought, Teaching assistant	2012
- Introduction to Language and Linguistics, Teaching assistant	2012
University of California, Merced , Cognitive & Information Sciences - Introduction to Cognitive Science, Teaching assistant	2011
University of Cologne , Dept. of General Linguistics - Introduction to General Linguistics, Teaching assistant	2009

UNDERGRADUATE ADVISING

Chelsea Coe	Outcome: see Coe & Winter (2013); Coe, Winter, Munroe & Matlock (2013)
Joshua Daguna	Outcome: see Winter, Daguna & Matlock (2013); Daguna & Winter (2014)
Jesse Falke	Outcome: see Falke, Winter & Spivey (2013)

AD-HOC REVIEWING

Journals reviews

PLOS ONE (2 times), Language & Cognition (2 times), Cognitive Science (2 times), Language Dynamics & Change, Cognitive Linguistics, Journal of Phonetics, Acta Linguistica Hungarica, Journal of Cognitive Psychology, Journal of the International Phonetic Association

Conference reviews

36th Annual Conference of the Cognitive Science Society, 12th Conceptual Structure, Discourse and Language, 5th Embodied Situated Language Processing, 10th International Conference on the Evolution of Language

GRANTS, PRIZES AND AWARDS

James R. Hurford Prize for the best student presentation at Evolang X, Vienna	2014
Linguistic Society of America Institute Fellowship	2013
American Psychological Association, Advanced Training Institute, Travel Grant	2013
UC Merced, Cognitive & Information Sciences, Summer Fellowship	2013
UC Merced, Outstanding Graduate Student Teaching Award	2012
Conceptual Structure in Discourse and Language Conference, Student Travel Support	2012
9th International Conference on the Evolution of Language, Student Travel Support	2012
UC Merced, Graduate Research Council, Travel Grant	2012
UC Merced, Graduate Research Council, Summer Fellowship	2012
UC Merced, Graduate Division, General Fellowship	2012
University of Hawai'i at Mānoa, Graduate Student Organization, Travel Grant	2010
Studienstiftung Deutsches Volk (German National Merit Foundation), Travel Grant #3	2010
University of Hawai'i at Mānoa, Dept. of Linguistics, Endowment Fund Fellowship	2010
Association of Korean Studies, Student Travel Grant	2009
Studienstiftung Deutsches Volk (German National Merit Foundation), Travel Grant #2	2009
Studienstiftung Deutsches Volk (German National Merit Foundation), Travel Grant #1	2009
ThyssenKrupp Technologies, External Funding for "Acoustic Correlates of Politeness"	2008
Studienstiftung Deutsches Volk (German National Merit Foundation), 5-year Scholarship	2007

ACADEMIC MEMBERSHIPS

International Pragmatics Association	2014-present
Association for Research and Applying Metaphor	2014-present
International Society for Gesture Studies	2014-present
Linguistic Society of America	2012-present
Association for Laboratory Phonology	2012-present
Sigma Xi Academic Research Society	2011-present
American Psychological Association	2010-present
Acoustical Society of America	2010-present
Gesellschaft für bedrohte Sprachen e.V. (Association for Endangered Languages)	2009-present
Gesellschaft für Gebärdensprache und Kommunikation Gehörloser e.V. (Association of German Sign Language and Deaf Communication)	2009-2011