


Christian Bentz

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University of Tübingen
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Born: December 25, 1983—Kuhardt, Germany
Nationality: German

Interests

Language change; Language evolution; Quantitative Typology; Corpus Linguistics; Computational Linguistics; Psycholinguistics

Positions

2015-2017 RESEARCH FELLOW in the *DFG Center for Advanced Studies (Words, Bones, Genes, Tools)* and the ERC project *EVOLAEMP* at the University of Tübingen

Education

2012-2016 PHD in Computation, Cognition and Language, University of Cambridge
2011-2012 MPhil in English and Applied Linguistics, University of Cambridge
2004-2010 MAGISTER ARTIUM in Germanistics, Macroeconomics and Philosophy, Ruprecht-Karls Universität Heidelberg

Visits

2016 University of Zürich, Corpus Lab, Tanja Samardžić
2015 Massachusetts Institute of Technology, TedLab, Ted Gibson
2011 Max Planck Institute for Evolutionary Anthropology, S. Wichmann
2009 Cornell University, Cognitive Neuroscience Lab, Morten H. Christiansen
2008 Università Tor Vergata, Rome. Erasmus, Italian and German Literature

Grants, Honors & Awards

- 2016 Swiss National Foundation (SNF) grant for academic short visits, University of Zürich
- 2015 Fieldwork Fund, University of Cambridge
- 2015 Travel bursary, Darwin College (Cambridge)
- 2012 Doctoral Scholarship, Arts and Humanities Research Council (AHRC)
- 2012 Doctoral Scholarship, Cambridge Home and European Scholarship Scheme (CHESS)
- 2012 Doctoral Scholarship, Cambridge Assessment
- 2012 Scholarship for student presenters at the International Conference for the Evolution of Language (EVOLANG9)
- 2012 Travel bursary, Darwin College (Cambridge)
- 2010 Doctoral scholarship (limited to 3 months), Max Planck Society
- 2009 Academic visit for the preparation of final thesis, German Academic Exchange Service (DAAD)
- 2008 Erasums, German Academic Exchange Service (DAAD)

Publications

JOURNAL ARTICLES

Bentz, C., Alikaniotis, D., Samardžić, T. and Buttery, P. (accepted). Variation in word frequency distributions: Definitions, measures and implications for a corpus-based language typology. *Journal of Quantitative Linguistics*.

Ferrer-i-Cancho, R., Bentz, C. and Seguin, C. (submitted). Compression and the origins of Zipf's law of abbreviation.

Bentz, C., Verkerk, A., Kiela, D., Hill, F. and Buttery, P. (2015). Adaptive Communication: Languages with more non-native speakers tend to have fewer word forms. *PLoS ONE* 10(6): e0128254. doi:10.1371/journal.pone.0128254.

Bentz, C., Kiela, D., Hill, F. and Buttery, P. (2014). Zipf's law and the grammar of languages: A quantitative study of Old and Modern English parallel texts. *Corpus Linguistics and Linguistic Theory*, 10 (2), 175-211.

Hill, F., Korhonen, A. and Bentz, C. (2014). A quantitative empirical analysis of the abstract/concrete distinction. *Cognitive Science*, 38, 162-177.

Bentz, C. and Winter, B. (2013). Languages with more second language learners tend to lose nominal case. *Language Dynamics and Change*, 3, 1-27.

EDITED VOLUMES

Bentz, C., Jäger, G. and Yanovich, I. (eds.) (2016). Proceedings of the Leiden Workshop on Capturing Phylogenetic Algorithms for Linguistics. *University of Tübingen, online publication system*. Online at <https://publikationen.uni-tuebingen.de/xmlui/handle/10900/68558>.

BOOK CHAPTERS

Bentz, C. and Winter, B. (2014). Languages with more second language learners tend to lose nominal case . In: *Quantifying Language Dynamics: On the Cutting Edge of Areal and Phylogenetic Linguistics*, ed. S. Wichmann and J. Good. Leiden: Brill.

Bentz, C. and Christiansen, M. H. (2013). Linguistic Adaptation: The trade-off between case marking and fixed word orders in Germanic and Romance languages . In: *Eastward flows the great river. Festschrift in honor of Prof. William S-Y. Wang on his 80th birthday*, ed. Feng Shi and Gang Peng. City University of Hong Kong Press, 48-56.

PROCEEDINGS

Bentz, C. and Berdicevskis, A. (2016). Learning pressures reduce morphological complexity: linking corpus, computational and experimental evidence. In: *Proceedings of the Workshop on Computational Linguistics for Linguistic Complexity (CL4LC)*. 26th International Conference on Computational Linguistics (COLING 2016), Osaka, Japan.

Bentz, C., Ruzsics, T., Kopleinig, A. and Samardžić, T. (2016). A comparison between morphological complexity measures: typological data vs. language corpora. In: *Proceedings of the Workshop on Computational Linguistics for Linguistic Complexity (CL4LC)*. 26th International Conference on Computational Linguistics (COLING 2016), Osaka, Japan.

Bentz, C. and Ferrer-i-Cancho, R. (2016). Zipf's law of abbreviation as a language universal. In: Bentz, C., Jäger, G. and Yanovich, I. (eds.) *Proceedings of the Leiden Workshop on Capturing Phylogenetic Algorithms for Linguistics. University of Tübingen, online publication system*. Online at <https://publikationen.uni-tuebingen.de/xmlui/handle/10900/68558>.

Bentz, C. (2016). The Low-Complexity-Belt: evidence for large-scale language contact in human prehistory? In: Roberts, S.G., Cuskley, C., McCrohon, L., Barceló-Coblijn, L., Feher, O. and Verhoef T. (eds.) *The Evolution of Language: Proceedings of the 11th International Conference (EVLANG11)*. doi:10.17617/2.2248195.

Caines, A., Bentz, C., Alikaniotis, D., Katushemererwe, F. and Buttery, P. (2016) The Glottolog data explorer: Mapping the world's languages. *Proceedings of LREC, Portoroz, Slovenia, 2016*.

Caines, A., Bentz, C., Graham, C., Polzehl, T. and Buttery, P. (2016). Crowdsourcing a multi-lingual speech corpus: recording, transcription, and natural language processing. *Proceedings of LREC, Portoroz, Slovenia, 2016*.

Bentz, C., Buttery, P. (2014). Towards a computational model of grammaticalization and lexical diversity. *CogACLL: Workshop on Cognitive Aspects of Computational Language Learning at the 14th Conference of the European Chapter of the Association for Computational Linguistics (EACL)*, Gothenburg, Sweden.

Bentz, C., Kiela, D. (2014). Zipf's law across languages of the world: Towards a quantitative measure of lexical diversity. In: Cartmill, E. A., Lyn, H., Roberts, S., and Cornish, H. (Eds.) *The Evolution of Language: Proceedings of the 10th International Conference Evolang 10*, Vienna 2014. World Scientific.

Bentz, C. (2014). What's next? A (possible) agenda for evolutionary linguistics after Evolang9. In: *Evolang student volume*.

Bentz, C. (2013). Beyond rule versus rote? Processing of distinctive dative and genitive case markers in German. *CogSci 2013, The annual meeting of the Cognitive Science Society*.

Hill, F., Korhonen, A. and Bentz, C. (2013). Large-scale empirical analyses of the abstract/concrete distinction. *CogSci 2013, The annual meeting of the Cognitive Science Society*.

Bentz, C. and Winter, B. (2012). The impact of L2 speakers on the evolution of case marking. In: Scott-Phillips, T. C., Tamariz, M., Cartmill, E. A., and Hurford, J. R. (Eds.), *Proceedings of the 9th International Conference on the Evolution of Language* (pp. 58-63). New Jersey: World Scientific.

Bentz, C. and Christiansen, M. H. (2010). Linguistic adaptation at work? The change of word order and case system from Latin to the Romance languages. In: A. Smith, M. Schouwstra, B. de Boer and K. Smith (Eds.), *Proceedings of the Eight International Conference on the Evolution of Language* (pp. 26-33). London: World Scientific Publishing.

Invited Talks

Nichols, J. and Bentz, C. (2016). Morphological complexity as an indicator of population isolation. University of Tübingen, Inaugural Symposium: Words, Bones, Genes, Tools, November 2016.

Bentz, C. (2015). The impact of non-native speakers on word forms and (potentially) word order. Massachusetts Institute of Technology, TedLab talks, February 2015.

Bentz, C. (2014). Towards measuring and modelling the (potential) impact of non-native speakers on language structures. University of Zurich, Linguistisches Kolloquium, December 2014.

Bentz, C. (2014). Measuring and modelling the impact of non-native speakers on morphological productivity. University of Manchester, Department of Linguistics and English Language, Langwidge Sandwidge, October 2014.

Bentz, C. (2013). Zipf's law and the grammar of languages: A (potential) cross-linguistic measure of syntheticity. NLIP seminar series, Computer Laboratory, Cambridge University.

Conference Talks

Bentz, C. (2016). Phylogenetic signals of language "external" factors. 46th Poznan Linguistic Meeting (PLM2016), September 2016.

Bentz, C. (2016). The Low-Complexity-Belt: evidence for large-scale language contact in human prehistory? 11th International Conference on the Evolution of Language, New Orleans, March 2016.

Bentz, C. and Ferrer-i-Cancho, R. (2015). Zipf's law of abbreviation as an absolute linguistic universal. Workshop on Capturing Phylogenetic Algorithms for Linguistics, Leiden, October 2015.

Bentz, C. (2015). Causality in historical language change. Causality in the language sciences, Workshop organized by the Max Planck Institute for Mathematics in the Sciences, Leipzig, April 2015.

Bentz, C. (2014). Measuring and modelling lexical diversity across languages. 5th UK Cognitive Linguistics Conference (Lancaster, UK), July 2014.

Bentz, C. and Buttery, P. (2014). Towards a computational model of grammaticalization and lexical diversity. CogACLL Workshop at the 14th Conference of the European Chapter of the Association for Computational Linguistics (Gothenburg), May 2014.

Bentz, C. and Kiela, D. (2014). Zipf's law across languages of the world: Towards a cross-linguistic measure of lexical diversity. Evolang 10 (Vienna), April 2014.

Bentz, C. (2014). Adaptive languages: Modeling lexical diversity cross-linguistically. Workshop in Computational Linguistics. Cambridge University, February 2014.

Bentz, C. (2013). Beyond rule versus rote? Processing of distinctive genitive and dative case markers in German. 35th annual meeting of the Cognitive Science Society. Humboldt University Berlin, August 2013.

Bentz, C. (2013). Measuring morphological productivity in synchronic and diachronic corpora. English Profile meeting. The Cass Center, Cambridge University Press, Cambridge.

Bentz, C. (2012). What frequency distributions of words in parallel texts might tell us about the grammatical structures of languages. 7th Newcastle-upon-Tyne Postgraduate Conference in Linguistics.

Bentz, C. and Winter, B. (2012). The impact of L2 speakers on the evolution of case marking. 9th International Conference on the Evolution of Language (EVOLANG9, Kyoto).

Bentz, C. and Christiansen, M. H. (2010). Linguistic adaptation at work? The change of word order and case system from Latin to the Romance languages. 8th International Conference on the Evolution of Language (EVOLANG8, Utrecht).

POSTERS

Bentz, C. (2014). Zipf's law and the grammar of languages. Synthetic and analytic encoding strategies across languages of the world. Nijmegen Lectures at the MPI for Psycholinguistics, Nijmegen (27-29 January).

Bentz, C. (2013). Zipf's law and the grammar of languages. Synthetic and analytic encoding strategies across languages of the world. Language Sciences in the 21st century, Cambridge (3-4 October).

Teaching

- 2016-2017 LECTURER
Typology II: Languages of the World, University of Tübingen.
- 2015-2016 LECTURER
Typology I: Languages of the World, University of Tübingen.
- 2014-2015 TEACHING ASSISTANT
Foundations in Statistics (using R). Social Sciences Research Methods Center (SSRMC), University of Cambridge.
Basic Quantitative Analyses (using R). Social Sciences Research Methods Center (SSRMC), University of Cambridge.
- 2013-2014 TEACHING ASSISTANT
Bivariate Association in R. Social Sciences Research Methods Center (SSRMC), University of Cambridge.
Linear Regression Part A (using R). Social Sciences Research Methods Center (SSRMC), University of Cambridge.
Linear Regression Part B (using R). Social Sciences Research Methods Center (SSRMC), University of Cambridge.
- SUPERVISIONS
History of English (Part II, second year students).
History of English (Part I, first year students).
- 2012-2013 TEACHING ASSISTANT
Replication Workshop (using R). Social Sciences Research Methods Center, University of Cambridge.

Languages

SPEAKING

German (native), English (TOEFL, internet based: 117), Italian (advanced), Spanish (intermediate)

READING

Latin, Middle High German, Old English