

Christian Bentz

Assistant Professor (Akademischer Rat)
Chair of Multilingual
Computational Linguistics
University of Passau
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94032 Passau, Germany

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Metrics: [google scholar](#), [semantic scholar](#)
Code: [github](#)



Born: December 25, 1983—Kandel, Germany
Nationality: German

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

Positions

- 2024- ASSISTANT PROFESSOR (Akademischer Rat),
Chair of Multilingual Computational Linguistics, University of Passau
2019-2024 ASSISTANT PROFESSOR (Akademischer Rat a. Z.),
Department of General Linguistics, University of Tübingen
2018-2019 PostDoc, *URPP Language and Space*, University of Zürich
2015-2019 PostDoc, ERC project *EVOLAEMP* and the *DFG Center for Advanced Studies (Words, Bones, Genes, Tools)*, University of Tübingen

Career Breaks

- 2020 Paternal leave (09.08. – 08.10.)
2018 Paternal leave (15.02. – 14.03.)
2018 Paternal leave (15.07. – 14.08.)

Visits

- 2016 University of Zürich, Corpus Lab, Tanja Samardžić
2015 Massachusetts Institute of Technology, TedLab, Edward Gibson

2011	Max Planck Institute for Evolutionary Anthropology, S. Wichmann
2009	Cornell University, Cognitive Neuroscience Lab, Morten H. Christiansen
2008	Universitá Tor Vergata, Rome. Erasmus, Italian and German Literature

Grants, Honors & Awards

2023	ERC Starting Grant (EVINE) (c. 1.500.000 €)
2022	Start-up grant for European project proposals (University of Tübingen) (2.585€)
2016	Swiss National Science Foundation (SNSF) grant (c. 3150€, 3500 CHF)
2015	Fieldwork Fund, University of Cambridge (c. 800€, 600£)
2015	Travel grant, AHRC, United Kingdom (c. 550€, 400£)
2012	Doctoral Scholarship, AHRC, United Kingdom (c. 26000€, c. 21000£)
2012	Doctoral Scholarship, CHESS, United Kingdom (c. 24000€, 19500£)
2012	Doctoral Scholarship, Cambridge Assessment (c. 24600€, 20000£)
2010	Doctoral scholarship (3 months), Max Planck Society (3000€)
2009	Academic visit for the preparation of final thesis (DAAD) (1900€)
2008	Erasums, German Academic Exchange Service (DAAD) (540€)

Languages

SPEAKING

German, English, Italian, Spanish

READING

Latin, Middle High German, Old English, Sumerian (Gudea inscriptions)

Skills

R, Python, html, L^AT_EX.

Publications

BOOKS

Bentz, C. (2018). *Adaptive Languages. An Information-Theoretic Account of Linguistic Diversity*. Berlin, Boston: De Gruyter Mouton.

JOURNAL ARTICLES

Gutierrez-Vasques, X., Bentz, C., and Samardžić, T. (2023). Languages through the looking glass of BPE compression. *Computational Linguistics*, 49 (4): 943–1001.

Petrini, S., Casas-i-Muñoz, A., Cluet-i-Martinell, J., Wang, M., Bentz, C., and Ferrer-i-Cancho, R. (2023). Direct and indirect evidence of compression of word lengths. Zipf's law of abbreviation revisited. *Glottometrics*, Issue 54, pp. 58–87.

- Ehret, K., Berdicevskis, A., Bentz, C. and Blumenthal-Dramé, A. (2023). Measuring language complexity: challenges and opportunities. *Linguistics Vanguard*, vol. 9, no. s1, 2023, pp. 1-8.
- Bentz, C., Gutierrez-Vasques, X., Sozinova, O., and Samardžić, T. (2022). Complexity trade-offs and equi-complexity in natural languages: A meta-analysis. *Linguistics Vanguard*, Vol. 9, No. s1, pp. 9-25.
- Ferrer-i-Cancho, R. , Bentz, C., and Seguin, C. (2022). Optimal coding and the origins of Zipfian laws. *Journal of Quantitative Linguistics*, 29:2, 165-194.
- Ehret, K., Blumenthal-Dramé, A., Bentz, C., and Berdicevskis, A. (2021). Meaning and measures: Interpreting and evaluating complexity metrics. *Frontiers in Communication*, 6:640510.
- Dutkiewicz, E., Lee, S., Russo, G., and Bentz, C. (2020). SignBase, a collection of geometric signs on mobile objects in the Paleolithic. *Nature Scientific Data*, 7, 364.
- Bentz, C., Dedić, D., Verkerk, A. and Jäger, G. (2018). The evolution of language families is shaped by the environment beyond neutral drift. *Nature Human Behavior*, Vol. 2, 816-821.
- Sahle, Y., Reyes-Centeno, H., and Bentz, C. (2018). Modern human origins and dispersal: current state of knowledge and future directions. *Evolutionary Anthropology*, 27, 64-67.
- Bentz, C., Alikaniotis, D., Cysouw, M. and Ferrer-i-Cancho, R. (2017). The entropy of words – learnability and expressivity across more than 1000 languages. *Entropy*, 19(6), 275.
- Bentz, C., Alikaniotis, D., Samardžić, T. and Buttery, P. (2017). Variation in word frequency distributions: Definitions, measures and implications for a corpus-based language typology. *Journal of Quantitative Linguistics*, 24(2-3), 128-162.
- 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.
- 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.

PROCEEDINGS

- Bentz, C. (2023). The Zipfian Challenge: Learning the statistical fingerprint of natural languages. In: *Proceedings of the 27th Conference on Computational Natural Language Learning (CoNLL 2023)*, Singapore.
- Moran, S., Bentz, C. Gutierrez-Vasques, X., Sozinova, O., and Samardžić, T. (2022). TeDDi Sample: Text Data Diversity Sample for Language Comparison and Multilingual NLP. *Pro-*

ceedings of the 13th Conference on Language Resources and Evaluation (LREC 2022), p. 1150–1158.

Gutierrez-Vasques, X., Bentz, C., Sozinova, O., and Samardžić, T. (2021). From characters to words: the turning point of BPE merges. In: *Proceedings of the 16th Conference of the European Chapter of the Association for Computational Linguistics*, p. 3454–3468.

Caines, A., Bentz, C., Knill, K., Rei, M., and Buttery, P. (2020). Grammatical error detection in transcriptions of spoken English. In: *Proceedings of the 28th International Conference on Computational Linguistics*, p. 2144–2162. Barcelona, Spain.

Berdicevskis, A., Çöltekin, Ç., Ehret, K., von Prince, K., Ross, D., Thompson, B., Yan, C., Demberg, V., Lupyan, G., Rama, T., and Bentz, C. (2018). Using Universal Dependencies in cross-linguistic complexity research. In: *Proceedings of UDW-18, Conference on Empirical Methods in Natural Language Processing (EMNLP 2018)*, Brussels, Belgium.

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., Koplenig, A. and Samardžić, T. (2016). A comparison between morphological complexity measures: typological data vs. language corpora. In: 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, <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 (EVOLANG11)*. 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.

BOOK CHAPTERS

Daneyko, T. and Bentz, C. (2019). Click languages tend to have large phoneme inventories: Implications for language evolution and change. In: *Modern human origins and dispersal*, ed. by Sahle, Y., Reyes-Centeno, H., and Bentz, C. Words, Bones, Genes, Tools: DFG Center for Advanced Studies Series. Tübingen: Kerns Verlag. p. 315-329.

Nichols, J. and Bentz, C. (2018). Morphological complexity of languages reflects the settlement history of the Americas. In: *New Perspectives on the Peopling of the Americas*, ed. by Harvati, K., Jäger, G., and Reyes-Centeno, H. Words, Bones, Genes, Tools: DFG Center for Advanced Studies Series. Tübingen: Kerns Verlag. p. 13-26.

Lozano, A., Casas, B., Bentz, C., and Ferrer-i-Cancho, R. (2017). Fast calculation of entropy with Zhang's estimator. In: *Studies in Quantitative Linguistics 23*, ed. by E. Kelih, R. Knight, J. Mačutek, and A. Wilson. Lüdenscheid: RAM Verlag. p. 273-285.

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, p. 48-56.

EDITED VOLUMES

Debowski, Ł., and Bentz, C. (eds.) (2020). *Information theory and language*. Entropy, Special Issue, Volume 22.

Sahle, Y., Reyes-Centeno, H., and Bentz, C. (eds.) (2019). *Modern human origins and dispersal*. Words, Bones, Genes, Tools: DFG Center for Advanced Studies Series. Tübingen: Kerns Verlag.

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.

Invited Talks

Bentz, C. (2024). Zipfian laws across diverse languages. 7th Workshop of the ACL Special Interest Group on Typology (SIGTYP), EACL 2024, Malta.

Bentz, C. (2024). Language complexity in shallow and deep time. Colloquium SFB 1102, Saarbrücken University.

Bentz, C. (2023). Collecting character sequences for Paleolithic signs and written languages. Workshop on Cross-Linguistic Data Formats – Graphs and Texts, Leipzig, December 2023.

Bentz, C. (2023). Beyond words – Lower and upper bounds on the entropy of subword units in diverse languages. 16th International Cognitive Linguistics Conference (ICLC16), University of Düsseldorf.

Bentz, C. and Dutkiewicz, E. (2023). Zipf's law of abbreviation holds for geometric signs of the Upper Paleolithic. Communicative efficiency workshop, MPI Leipzig.

Bentz, C. (2020). Quantitative comparison of natural languages and other sequences. Hebrew University of Jerusalem, Language Learning and Processing Lab (Inbal Arnon).

Bentz, C. (2020). SignBase – A collection of geometric signs in the Paleolithic. University of Aarhus, CLIOARCH webinar.

Bentz, C. (2019). Language change as a (random?) walk in entropy space. University of Cambridge, Cambridge Language Sciences Annual Symposium, December 2019.

Bentz, C., Dediu, D., Verkerk, A. and Jäger, G. (2018). The evolution of language families is shaped by the environment beyond neutral drift. University of York, Workshop on Phylogenetic Linguistics and Linguistic Theory, November 2018.

Bentz, C., Alikaniotis, D., Cysouw, M. and Ferrer-i-Cancho, R. (2017). Word entropy across more than 1000 languages: the linear relationship between unigram entropy and entropy rate. University of Warsaw, Workshop on Statistics of Languages: Theories and Experiments, July 2017.

Bentz, C. (2017). Adaptive languages: An information-theoretic account of linguistic diversity. University of Jena, English Department, January 2017.

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 distribution of information-theoretic complexity across languages of the world. University of Tübingen, Inaugural Symposium: Words, Bones, Genes, Tools, November 2015.

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. (2023). The Zipfian Challenge – Learning the statistical fingerprint of natural languages. CoNLL, Singapore, December 2023.

Dutkiewicz, E. and Bentz, C. (2019). SignBase – a data-driven approach to abstract signs in the Paleolithic. Landesmuseum für Vorgeschichte, Halle (Saale), Germany. International Conference on Mesolithic Art – Abstraction, Decoration, Messages, September 2019.

Bentz, C., Dedić, D., Verkerk, A., and Jäger, G. (2019). The evolution of language families is shaped by the environment beyond neutral drift. Inaugural Workshop for the Center for the Interdisciplinary Study of Language Evolution (ISLE), Zurich, Switzerland.

Bentz, C., Nichols, J., and Jäger, G. (2017). Assessing the effect of geographical isolation on morphological complexity. 12th Conference of the Association for Linguistic Typology (ALT), Canberra, Australia

Bentz, C., Berdichevskis, A. (2016). Learning pressures simplify morphology: corpus, computational and experimental evidence. Workshop on Computational Linguistics for Linguistic Complexity (CL4LC), 26th International Conference on Computational Linguistics (COLING 2016), December 2016.

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 (EVOLANG 11, New Orleans), March 2016.

- Bentz, C. and Ferrer-i-Cancho, R. (2015). Zipf's law of abbreviation as an absolute linguistic universal. *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).

Teaching

2023-2024	Language Evolution (Lecturer, WiSe), University of Tübingen
2019-2023	Syntax and Semantics (Lecturer, every WiSe), University of Tübingen
2020-2023	Semantics and Pragmatics (Lecturer, every SoSe), University of Tübingen
2018-2019	Modern Human Origins (Lecturer), University of Tübingen
2017-2018	Modern Human Origins (Lecturer), University of Tübingen
2017	Typology: Analyzing Linguistic Diversity (Lecturer), University of Tübingen
2016-2017	Typology II: Languages of the World (Lecturer), University of Tübingen
2015-2016	Typology I: Languages of the World (Lecturer), University of Tübingen
2014-2015	Foundations in Statistics in R (Teaching assistant), University of Cambridge
2014-2015	Basic Quantitative Analyses in R (Teaching assistant), University of Cambridge

2013-2014	Bivariate Analyses in R (Teaching assistant), University of Cambridge
2013-2014	Linear Regression Part A (Teaching assistant), University of Cambridge
2013-2014	Linear Regression Part B (Teaching assistant), University of Cambridge
2013-2014	History of English Part II (Tutor), University of Cambridge
2013-2014	History of English Part I (Tutor), University of Cambridge
2012-2013	Replication Workshop in R (Teaching assistant), University of Cambridge

Supervisions

POSTDOCS: Ximena Gutierrez-Vasques (University of Zürich)

MA THESES: Demet Tanrıverdi (University of Tübingen), Javier Moreno Fernández (Barcelona School of Informatics), Yulia Mkhayan (University of Tübingen)

BA THESES: Noelle Geiss-Grimm (University of Tübingen), Tim Wientzek (University of Tübingen), Fabio Maion (University of Tübingen)

Major Collaborations

2018-	Dr. Ewa Dutkiewicz, Staatliche Museen zu Berlin, Stiftung Preußischer Kulturbesitz, Museum für Vor- und Frühgeschichte, Berlin, Germany. Topic: <i>Geometric Signs in the Paleolithic.</i>
2016-	Prof. Ramon Ferrer-i-Cancho, Department of Computer Science, Universitat Politècnica de Catalunya, Spain. Topic: <i>Zipfian laws of language.</i>
2016-	PD Dr. Tanja Samardžić, URPP Language and Space, University of Zürich, Switzerland. Topic: <i>Quantitative analyses of language diversity.</i>
2015-	Prof. Dr. Gerhard Jäger, Department of General Linguistics, Tübingen, Germany. Topic: <i>Phylogenetic methods in historical linguistics.</i>
2013-2016	Prof. Paula Buttery, University of Cambridge, UK. Topic: <i>Historical change of word frequency distributions.</i>
2019	Prof. Johanna Nichols, Department of Slavic Languages, UC Berkeley, USA. Topic: <i>Typology of morphological complexity.</i>
2010-2013	Prof. Morten Christiansen, Department of Psychology, Cornell University, Ithaca, USA. Topic: <i>Languages as complex adaptive systems.</i>

Organization of Scientific Meetings

2022	Workshop in Computational Linguistics, DGFS Annual Meeting, University of Tübingen
2019	Interactive Workshop on Measuring Language Complexity (IWMLC), Freiburg University
2018	Measuring Language Complexity (MLC), Torun University, Poland

Institutional Responsibilities

2019-	Deputy to the head of department (Gerhard Jäger)
2019-	MA Advisor

2019–	BAföG (student loans) Advisor
2021	BA Advisor

Reviewing Activities

Language, Journal of Language Evolution, Cognitive Science, Cognition, Corpus Linguistics and Linguistic Theory, PloS ONE, Entropy, Linguistics, Lingua, Linguistics Vanguard, Linguistic Typology, Language Dynamics and Change, Association for Computational Linguistics (ACL)

Memberships

2023–	International Quantitative Linguistics Association (IQLA)
2023–	International Cognitive Linguistics Association (ICLA)
2017–	German Society for Linguistics (Deutsche Gesellschaft für Sprachwissenschaft, DGfS)
2017–	Association for Linguistic Typology (ALT)

Media Coverage

2023	Article in <i>Süddeutsche Zeitung</i> featuring <i>SignBase</i> (link)
2023	Article in <i>Folha de São Paulo</i> about language complexity (link)
2022	Q&A about language diversity in a science communication initiative (link)
2021	Feature in <i>Deutschlandfunk</i> on the grammar of languages and deep human history (link).
2019	Article on the diversity of the world's languages, <i>Frankfurter Allgemeine Zeitung</i> (link).
2019	Plenary talk at the <i>Cambridge Language Sciences Symposium</i> (link).

Public Outreach

2019	Bentz, Christian and Bosmann, Abel. <i>Das Ende der Sprachlosigkeit – Wie der sprechende Mensch die Welt eroberte</i> . Talk at the Volkshochschule Pfullingen for the general public.
2015	Caines, Andrew and Bentz, Christian. <i>Learn Titanese!</i> An interactive language learning experiment for children and adults at the <i>Cambridge Science Festival</i> .