

NDL-Humboldt project publications

2017

- 1) Arnold, D., Tomaschek, F., Sering, K., Lopez, F., and Baayen, R. H. (2017). Words from spontaneous conversational speech can be recognized with human-like accuracy by an error-driven learning algorithm that discriminates between meanings straight from smart acoustic features, bypassing the phoneme as recognition unit. *PLoS ONE* 12(4): e0174623.
- 2) Baayen, R. H., Vasishth, S., Kliegl, R., and Bates, D. (2017). The cave of shadows. Addressing the human factor with generalized additive mixed models. *Journal of Memory and Language*, 94: 206-234.
- 3) Dye, M., Milin, P., Futrell, R., and Ramscar, M. (2017). A functional theory of gender paradigms. In Kiefer, F., Blevins, J. P. and Bartos, H. (Eds.) *Morphological Paradigms and Functions*. Leiden, Brill, 212-239.
- 4) Geeraert, K., Newman, J., and Baayen R. H. (2017). Idiom variation: Experimental data and a blueprint of a computational model. In Christiansen, M. and I. Arnon (Eds.) *More than Words: The Role of Multiword Sequences in Language Learning and Use. Special issue of Topics in Cognitive Science*, doi:10.1111/tops.12263.
- 5) Heck, D., Arnold, N., and Arnold, D. (2017). TreeBUGS: An R Package for Hierarchical Multinomial-Processing-Tree Modeling. *Behavior Research Methods*, Springer, doi: 10.3758/s13428-017-0869-7.
- 6) Hendrix, P., Bolger, P., and Baayen, R. H. (2017). Distinct ERP signatures of word frequency, phrase frequency, and prototypicality in speech production. *Journal of Experimental Psychology: Learning, Memory and Cognition*, 43, 128-149.
- 7) Matuschek, H., Kliegl, R., Vasishth, S., Baayen, R. H., and Bates, D. (2017). Balancing type I error and power in linear mixed models. *Journal of Memory and Language*, 94, 305-315.
- 8) Milin, P., Feldman, L. B., Ramscar, M., Hendrix, P., and Baayen, R. H. (2017). Discrimination in lexical decision. *PLoS ONE*, 12(2), e0171935.
- 9) Ramscar, M, Sun, C. C., Hendrix, P., and Baayen, R. H. (2017). The Mismeasurement Of Mind: Lifespan Changes in Paired Associate Test Scores Reflect The 'Cost' Of Learning, Not Cognitive Decline, *Psychological Science*, doi: 10.1177/0956797617706393.

2016

- 1) Arnold, D., and Tomaschek, F. (2016) The Karl Eberhards Corpus of spontaneously spoken southern German in dialogues | audio and articulatory recordings. *Tagungsband der 12. Tagung Phonetik und Phonologie im deutschsprachigen Raum*, München, 10-13.

- 2) Baayen, R. H., Milin, P., and Ramscar, M. (2016). Frequency in lexical processing. *Aphasiology*, 30, 1174-1220.
- 3) Baayen, R. H., Shaoul, C., Willits, J., and Ramscar, M. (2016). Comprehension without segmentation: A proof of concept with naive discriminative learning. *Language, Cognition and Neuroscience*, 31, 106-128.
- 4) Blanco, N.J., Love, B.C., Ramscar, M., Otto, A.R., Smavda, K., and Maddox, W.T. (2016). Exploratory decision-making as a function of lifelong experience, not cognitive decline. *Journal of Experimental Psychology: General*, 145 (3), 284-297.
- 5) Blevins, J. P., Ackerman, F., Malouf, R., and Ramscar, M. (2016). Morphology as an adaptive discriminative system. In H. Harley and D. Siddiqi (eds.), *Morphological Metatheory*, Benjamins, 271-302.
- 6) Divjak, D., Arppe, A., and Baayen, R. H. (2016). Does language-as-used fit a self-paced reading paradigm? In Anstatt, T., Gattnar, A., and Clasmeier, C. (Eds.) *Slavic Languages in Psycholinguistics*, 52–82. Tübingen, Narr.
- 7) Dye, M., Johns, B. T., Jones, M.N., and Ramscar, M. (2016). The structure of names in memory: Deviations from uniform entropy impair memory for linguistic sequences. *Proceedings of the 38th Annual Conference of the Cognitive Science Society*, Philadelphia, PA, 1763-1768.
- 8) Geertzen, J., Blevins, J. P., and Milin, P. (2016). Informativeness of linguistic unit boundaries. *Italian journal of linguistics*, 28, 25-47.
- 9) Hendrix, P. (2016). Experimental explorations of a discrimination learning approach to language processing. *Doctoral dissertation*. Eberhard Karls Universität, Tübingen, Germany.
- 10) Hendrix, P., Bolger, P., and Baayen, R. H. (2016). Distinct ERP signatures of word frequency, phrase frequency, and prototypicality in speech production. *Journal of Experimental Psychology: Language, Memory and Cognition*, 43, 128-149.
- 11) Milin, P., Divjak, D., Dimitrijević, S., and Baayen, R. H. (2016). Towards cognitively plausible data science in language research. *Cognitive Linguistics*, 27, 507-526.
- 12) Nixon, J., Rij, J. van, Mok, P., Baayen, R. H., and Chen, Y. (2016). The temporal dynamics of perceptual uncertainty: eye movement evidence from Cantonese segment and tone perception. *Journal of Memory and Language*, 90, 103-125.
- 13) Radanović, J., Westbury, C., and Milin, P. (2016). Quantifying semantic animacy: How much are words alive?. *Applied Psycholinguistics*, 37, 1477-499.

- 14) Ramskar, M. (2016). Learning and the replicability of priming effects. *Current Opinion in Psychology*, 12, 80-84.
- 15) Ramskar, M., and Port, R. F. (2016). How spoken languages work in the absence of an inventory of discrete units. *Language Sciences*, 53, 58-74.
- 16) Ramskar, M, Sun, C-C., Hendrix, P., and Baayen, R. H. (2016). The mismeasurement of mind: How neuropsychological testing creates a false picture of cognitive aging. In Papafragou, A., Grodner, D., Mirman, D., Trueswell, J.C. (Eds.) *Proceedings of the 38th Annual Conference of the Cognitive Science Society*, Austin, TX, 1763-1768.
- 17) Rij, J. van, Hollebrandse, B., and Hendriks, P. (2016). Children's eye gaze reveals their use of discourse context in object pronoun resolution. In Holler, A., and Suckow, K. (Eds.) *Empirical perspectives on anaphora resolution: Information structural evidence in the race for salience*, 267-293, Berlin/Boston: De Gruyter.
- 18) Sun, C. C. (2016). Lexical processing in simplified Chinese: an investigation using a new large-scale lexical database. *Doctoral dissertation*. Eberhard Karls Universität, Tübingen.
- 19) Stolarova, M., Brielmann, A., Wolf, C., Rinker, T., Burke, T., and Baayen, R. H. (2016). Early vocabulary in relation to gender, bilingualism, type and duration of childcare. *Advances in Cognitive Psychology*, 12, 130-144.
- 20) Westbury, C., Shaoul, C., Moroschan, G., and Ramskar, M. (2016). Telling the world's least funny jokes: On the quantification of humor as entropy. *Journal of Memory and Language*, 86, 141-156.
- 21) Wieling, M., Tomaschek, F., Arnold, D., Tiede, M., Bröker, F., Thiele, S., Wood, S. N., and Baayen, R. H. (2016). Investigating dialectal differences using articulatory data. *Journal of Phonetics*, 59: 122-143.

2015

- 1) Andel, M., Radanović, J., Feldman, L. B., and Milin, P. (2015). Processing of cognates in Croatian as L1 and German as L2. In NetWordS 2015, *Word Knowledge and Word Usage: Representations and Processes in the Mental Lexicon*, Pisa, 182-186.
- 2) Augurzky, P., Riester, A., and Tomaschek, F. (2015). Segmental effects on prosody: Modelling German argument structure. In Leemann, A., Kolly, M. J., Schmid, S. and Dellwo, V. (Eds.), *Trends in Phonetics and Phonology. Studies from German speaking Europe*. Frankfurt am Main/Bern, Lang., 139-151.

- 3) Baayen, R. H., and Ramscar, M. (2015). Abstraction, storage and naive discriminative learning. In Dabrowska, E. and Divjak, D. (Eds), *Handbook of Cognitive Linguistics*, Berlin, De Gruyter Mouton, 99-120.
- 4) Baayen, R. H., Rij, J. van, Cat, C. de, and Wood, S. N. (accepted). Autocorrelated errors in experimental data in the language sciences: Some solutions offered by Generalized Additive Mixed Models. In Speelman, D., Heylen, K. and Geeraerts, D. (Eds.), *Mixed Effects Regression Models in Linguistics*. Berlin, Springer, arXiv:1601.02043 [stat.AP].
- 5) Baayen, R. H., Tomaschek, F., Gahl, S., and Ramscar, M. (accepted 2017). The Ecclesiastes principle in language change. In Hundt, M., Mollin, S. and Pfenninger, S. (Eds.), *The Changing English Language: Psycholinguistic Perspectives*. Cambridge, UK, Cambridge University Press.
- 6) Blevins, J. P., Milin, P., and Ramscar, M. (accepted 2017). The Zipfian Paradigm Cell Filling Problem. In F. Kiefer, J. P. Blevins, and H. Bartos (Eds.) *Perspectives on Morphological Structure: Data and Analyses*. Leiden, Brill, 1-20.
- 7) Blevins, J., Milin, P., and Ramscar, M. (2015). Zipfian discrimination. In Vito Pirrelli, Claudia Marzi, Marcello Ferro (Eds.): *Word Structure and Word Usage. Proceedings of the NetWordS Final Conference*, Pisa, 29-31.
- 8) Cat, C. de, Klepousniotou, E., and Baayen, R. H. (2015). Representational deficit or processing effect? An electrophysiological study of noun-noun compound processing by very advanced L2 speakers of English. *Frontiers in Psychology*, 6, article 77.
- 9) Feldman, L. B., Milin, P., Cho, K., Moscoso del Prado Martín, F., and OConnor, P. A. (2015). Must analysis of meaning follow analysis of form? A time course analysis. *Frontiers in Human Neuroscience*, 9:111.
- 10)Kügler, F., Smolibocki, B., Arnold, D., Baumann, S., Braun, B., Braun, B., Grice, M., Jannedy, S., Michalsky, J., Niebuhr, O., Peters, J., Ritter, S., Röhr, C. T., Schweitzer, A., Schweitzer, K., Wagner, P. (2015). DIMA-Annotation Guidelines for German Intonation. *Proceedings of the 18th International Congress of Phonetic Sciences*, 1-5.
- 11)Milin, P., Smolka, E., and Feldman, L. B. (accepted 2017). Models of Lexical Access and Morphological Processing. In Fernandez, E. and Cairns, H. (Eds.) *The Handbook of Psycholinguistics*. Hoboken, NJ, John Wiley and Sons, Part II, Ch.11.

- 12) Mulder, K., Dijkstra, T., and Baayen, R. H. (2015). Cross-language activation of morphological relatives in cognates: the role of orthographic overlap and task-related processing. *Frontiers in Human Neuroscience*, 9:16.
- 13) Nixon, J. S., Rij, J. van, Li, X., and Chen, Y. (2015). Cross-category phonological effects on ERP amplitude demonstrate context-specific processing during reading aloud. In A. Botinis, (Ed.), *ExLing 2015: Proceedings of the International Conference of Experimental Linguistics*, Athens, 50-53.
- 14) Nixon, J. S., Rij, J. van, Mok, P., Baayen, R. H., and Chen, Y. (2015). Eye movements reflect acoustic cue informativity and statistical noise. *Proceedings of the 6th ISEL Conference on Experimental Linguistics*, Athens, 54-57.
- 15) Pham, H., and Baayen, R. H. (2015). Vietnamese compounds show an anti-frequency effect in visual lexical decision. *Language, Cognition and Neuroscience*, 30, 1077-1095.
- 16) Ramscar, M., and Baayen, R. H. (2015). Learning and Cognitive Maturation. In S. Krauss Whitbourne (Ed.), *The Encyclopedia of Adulthood and Aging*, Wiley-Blackwell, 1 - 5 , doi: 10.1002/9781118521373.wbeaa317.
- 17) Ramscar, M., Dye, M., Blevins, J., and Baayen, R. H. (accepted 2017). Morphological development. In Bar On, A. and Ravit, D. (Eds.) *Handbook of Communication Disorders*. De Gruyter Mouton, 1-29.
- 18) Ramscar, M., and Port, R. (2015). Categorization (without categories). In E. Dawbroska and D. Divjak (Eds.), *Handbook of Cognitive Linguistics*. De Gruyter Mouton, 75-99.
- 19) Rij, J. van, Wieling, M., Baayen, R. H., and Rijn, H. van (2015). itsadug: Interpreting Time Series and Autocorrelated Data Using GAMMs. *R package version 1.0.1*.
- 20) Tomaschek, F. (2015). Has a Split Tongue One Or Two Tongue Tips During Articulation?. *Proceedings of the 18th International Conference of Phonetic Sciences*, Glasgow, 1-5.
- 21) Tomaschek, F., Truckenbrodt, H., and Hertrich, I. (2015). Discrimination sensitivities and identification patterns of vowel quality and duration in German /u/ and /o/ instances. In: Leemann, A., Kolly, M. J., Schmid, S. and Dellwo, V. (Eds.), *Trends in Phonetics and Phonology. Studies from German speaking Europe*, Frankfurt am Main/Bern: Lang, 197-210.
- 22) Wieling, M., Bloem, J., Baayen, R. H., and Nerbonne, J. (2015). Determinants of English accents. *Proceedings of QITL-6*, Tübingen, doi: 10.15496/publikation-8628.

- 23) Wieling, M., Tomaschek, F., Arnold, D., Tiede, M., and Baayen, R. H. (2015). Investigating dialectal differences using articulatory. *Proceedings of ICPHS 2015*, Glasgow, 1–5.

2014

- 1) Baayen, R. H. (2014). Experimental and psycholinguistic approaches. Lieber, R. and Stekauer, P. (eds), *Handbook of derivational morphology*, 95-117. Oxford: Oxford University Press.
- 2) DeCat, C., Klepousniotou, E., and Baayen R. H. (2014). Electrophysiological correlates of noun-noun compound processing by non-native speakers of English. In Verhoeven, B., Daelemans, W., van Zaanen, M. and van Huyssteen, G. (Eds.), *Proceedings of the First Workshop on Computational Approaches to Compound Analysis (ComAComA 2014)*, 41-52.
- 3) Miwa, K., Libben, G., Dijkstra, T., and Baayen, R. H. (2014). The time-course of lexical activation in Japanese morphographic word recognition: Evidence for a character-driven processing model. *The Quarterly Journal of Experimental Psychology*, 67, 79-113.
- 4) Mulder, K., Dijkstra, T., Schreuder, R., and Baayen, R.H. (2014). Effects of primary and secondary morphological family size in monolingual and bilingual word processing. *Journal of Memory and Language*, 72, 59-84.
- 5) Ramscar, M., and Baayen, R. H. (2014). Why our brains work better with age. *New Scientist*, 221, 28-29.
- 6) Ramscar, M., Hendrix, P., Love, B., and Baayen, R. H. (2013). Learning is not decline: The mental lexicon as a window into cognition across the lifespan. *The Mental Lexicon*, 8, 450-481.
- 7) Ramscar, M., Hendrix, P., Shaoul, C., Milin, P., and Baayen, R. H. (2014). The myth of cognitive decline: Nonlinear dynamics of lifelong learning. *Topics in Cognitive Science*, 6, 5-42.
- 8) Tomaschek, F., Tucker, B. V., Wieling, M., Baayen, R. H. (2014). Vowel articulation affected by word frequency. *Proceedings of the 10th International Seminar on Speech Production*, Cologne, May 5–8, pp. 429-432.
- 9) Vaci, N., Radanovic, J., Marmolejo-Ramos, F., and Milin, P. (2014). Comprehending negated action(s): Embodiment perspective. *Psychonomic Bulletin and Review*, 9, 558-565.

- 10) Wieling, M., Montemagni, S., Nerbonne, J., and Baayen, R. H. (2014). Lexical differences between Tuscan dialects and standard Italian: Accounting for geographic and socio-demographic variation using generalized additive mixed modeling. *Language*, 90(3), 669-692.
- 11) Wieling, M., Nerbonne, J., Bloem, J., Gooskens, C., Heeringa, W., and Baayen, R. H. (2014). A cognitively grounded measure of pronunciation distance. *PLoS ONE*, 9(1), e75734.

2013

- 1) Arnold, D., Wagner, P., and Baayen, R. H. (2013). Using generalized additive models and random forests to model prosodic prominence in German. *Proceedings of Interspeech*, Lyon, 272-276.
- 2) Baayen, R. H. (2013). Multivariate Statistics. In R. Podesva and D. Sharma, *Research Methods in Linguistics*. Cambridge, Cambridge University Press, 337-372.
- 3) Baayen, R. H., Hendrix, P. and Ramscar, M. (2013). Sidestepping the combinatorial explosion: Towards a processing model based on discriminative learning. *Language and Speech* 56, 329-347.
- 4) Baayen, R. H., Janda, L. A., Nessel, T., Dickey, S., Endresen, A., Makarova, A. (2013). Making choices in Russian: Pros and cons of statistical methods for rival forms. *Russian Linguistics* 37, 253-291.
- 5) Baskent, D., Rij, J. van, Yen Ng, Z., Free, R., and Hendriks, P. (2013). Perception of spectrally degraded pronouns and reflexives by children. *Journal of the Acoustical Society of America* 134, 3844-3852.
- 6) Kösling, K., Kunter, G., Baayen, R. H., and Plag, I. (2013). Prominence in triconstituent compounds: Pitch contours and linguistic theory. *Language and Speech* 56, 529-554.
- 7) Filipovic Durdevic, D., Milin, P., and Feldman, L. B. (2013). Bi-alphabetism: A window on phonological processing. *Psihologija*, 46, 421-438.
- 8) Milin, P., and Zdravkovic, S. (2013). Bi-Dimensional Semantic Scales: The Embodied Maps of Meanings. *Universitas Psihologica*, 12, 1543-1558.
- 9) Miwa, K., Dijkstra, T., Bolger, P., and Baayen, R. H. (2013). Reading English with Japanese in mind: Effects of frequency, phonology, and meaning in different-script bilinguals. *Bilingualism: Language and Cognition*, doi: 10.1017/S1366728913000576.
- 10) Pham, H. and Baayen, R. H. (2013). Semantic relations and compound transparency: A regression study in CARIN theory. *Psihologija* 46, 455-478.

- 11) Ramscar, M., and Baayen, R. H. (2013). Production, comprehension, and synthesis: a communicative perspective on language. *Frontiers in psychology* 4, 233.
- 12) Ramscar, M., Dye, M., and McCauley, S. (2013). Error and expectation in language learning: The curious absence of 'mouses' in adult speech. *Language* 89, 760-793.
- 13) Ramscar, M., Dye, M. and Klein, J. (2013). Children value informativity over logic in word learning. *Psychological Science*, 24, 1017-1023.
- 14) Ramscar, M., Dye, M., Gustafson, J. and Klein, J. (2013). Dual routes to cognitive flexibility: Learning and response conflict resolution in the dimensional change card sort task. *Child Development*, 84, 1308-1323.
- 15) Ramscar, M. (2013). Suffixing, prefixing, and the functional order of regularities in meaningful strings. *Psihologija* 46, 377-396.
- 16) Ramscar, M., Dye, M., and Hubner, M. (2013). When the fly flied and when the fly flew: How semantics can make sense of inflection. *Language and Cognitive Processes* 28, 468-497.
- 17) Ramscar, M., Hendrix, P., and Baayen, R.H. (2013). The myth of cognitive decline. *Proceedings of the 35th Meeting of the Cognitive Science Society*, Berlin, Germany, 1193-1198.
- 18) Ramscar, M., Smith, A.H., Dye, M., Futrell, R., Hendrix, P., Baayen, R.H., and Starr, R. (2013). The 'universal' structure of name grammars and the impact of social engineering on the evolution of natural information systems. *Proceedings of the 35th Meeting of the Cognitive Science Society*, Berlin, Germany, 3245 - 3250.
- 19) Riet, G. ter, Chesley, P., Gross, A. G., Siebeling, L., Muggenstorm, P., Heller, N., et al. (2013). All that glitters isn't gold: A Survey of Acknowledgment of Limitations in Biomedical Studies. *PLoS ONE* 8:11, e73623. doi: 10.1371/journal.pone.0073623.
- 20) Rij, J. van, Rijn, H. van, and Hendriks, P. (2013). How WM load influences linguistic processing in adults: A computational model of pronoun interpretation in discourse. *Topics in Cognitive Science* 5, 564-580.
- 21) Shaoul, C. and Arppe, A. Hendrix, P. and Milin, P. and Baayen, R.H. (2013) ndl: Naive Discriminative Learning (R package on CRAN: <http://CRAN.R-project.org/package=ndl>).
- 22) Shaoul, C., Westbury, C. F., and Baayen, R.H. (2013). The subjective frequency of word n-grams. *Psihologija* 46, 497-537.

- 23) Tomaschek, F., Truckenbrodt, H., and Hertrich, I., (2013). Neural processing of acoustic duration and phonological German vowel length: Time courses of evoked fields in response to speech and nonspeech signals. *Brain and Language* 124, 117-131.
- 24) Tomaschek, F., Wieling, M., Arnold, D., and Baayen, R. (2013). Word Frequency, Vowel length and Vowel Quality in Speech Production: An EMA Study of the Importance of Experience. *Interspeech*, Lyon, 1302-130.
- 25) Tomaschek, F., Truckenbrodt, H., and Hertrich, I. (2013). Discrimination sensitivities and identification patterns of vowel quality and duration in German /u/ and /o/ instances. *Proceedings of the PundP 2013*, Zürich.
- 26) Westbury, C., Shaoul, C., Hollis, G., Smithson, L., Briesemeister, B. B., Hofmann, M. J., and Jacobs, A. M. (2013). Now you see it, now you don't: On emotion, context, and the algorithmic prediction of human imageability judgments. *Frontiers in Psychology*, 4: 991.

2012

- 1) Arnold, D., Wagner, P., and Möbius, B. (2012). Obtaining prominence judgments from naive listeners -- Influence of rating scales, linguistic levels and normalisation. *Proceedings of Interspeech*. Portland, OR, USA, 1-4.
- 2) Arnon, I., and Ramscar, M. (2012). "Granularity and the acquisition of grammatical gender: How order- of-acquisition affects what gets learned." *Cognition* 122.3: 292-305.
- 3) Baayen, R. H. (2012). Learning from the Bible: Computational modeling of the costs of letter transpositions and letter exchanges in reading Classical Hebrew and Modern English. *Lingue & Linguaggio* 2, 123-146.
- 4) Baayen, R. H. (2012). Mixed-effects models. In Cohn, A. C., Fougeron, C. and Huffman, M.K. (eds.), *Handbook of Laboratory Phonology* , Oxford University Press, 668-677.
- 5) Balling, L. and Baayen, R.H. (2012). Probability and surprisal in auditory comprehension of morphologically complex words. *Cognition* 125, 80-106.
- 6) Blom, E., and Baayen, R. H. (2012). The impact of verb form, sentence position, home language and L2 proficiency on subject-verb agreement in child L2 Dutch. *Applied Psycholinguistics* 1, 1-35.
- 7) Kryuchkova, T., Tucker, B. V., Wurm, L., and Baayen R. H. (2012). Danger and usefulness in auditory lexical processing: evidence from electroencephalography. *Brain and Language* 122, 81-91.
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- 10) Ramscar, M., Dye, M., and Hübner, M. (2012). When the fly flied and when the fly flew: How semantics affect the processing of inflected verbs. *Language and Cognitive Processes* 28, 468-97.
- 11) Sappok, C. and Arnold, D. (2012). More on the Normalization of Syllable Prominence Ratings. *Proceedings of Interspeech*. Portland, OR, USA, 2418-2421.
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- 13) Tagliamonte, S. and Baayen, R. H. (2012). Models, forests and trees of York English: Was/were variation as a case study for statistical practice. *Language Variation and Change* 24 (2), 135-178.
- 14) Valls, E., Nerbonne, J., Prokić, J., Wieling, M., Clua, E., and Lloret, M. (2012). Applying Levenshtein Distance to Catalan Dialects. A Brief Comparison of Two Dialectometric Approaches. *Verba. Anuario Galego de Filoloxia*, 39, 35-61.