

List of Publications

A. Articles in peer-reviewed journals

in press

507. **Papadimitriou, C.H. & Friederici, A.D.** (in press).
Bridging the gap between neurons and cognition through assemblies of neurons. *Neural Computation*.

2021

506. **Chen, L., Goucha, T., Männel, C., Friederici, A.D. & Zaccarella, E.** (2021).
Hierarchical syntactic processing is beyond mere associating: fMRI evidence from a novel artificial grammar. *Human Brain Mapping*. doi: 10.1002/hbm.25432
505. **Graessner, A., Zaccarella, E., Friederici, A.D., Obrig, H. & Hartwigsen, G.** (2021).
Dissociable contributions of frontal and temporal brain regions to basic semantic composition. *Brain Communications*, 3(2), fcab090. doi: 10.1093/braincomms/fcab090.
504. **Marimon, M., Hofmann, A., Veríssimo, J., Männel, C., Friederici, A.D., Höhle, B. & Wartenburger, I.** (2021).
Children's learning of non-adjacent dependencies using a web-based computer game setting. *Frontiers in Psychology*, 12:734877. doi: 10.3389/fpsyg.2021.734877
503. **Paul, M., Männel, C., van der Kant, A., Mueller, J.L., Höhle, B., Wartenburger, I. & Friederici, A.D.** (2021).
Gradual development of non-adjacent dependency learning during early childhood. *Developmental Science*, 50:100975. doi: 10.1016/j.dcn.2021.100975
502. **Qi, Ting, Schaadt, G. & Friederici, A.D.** (2021).
Associated functional network development and language abilities in children. *NeuroImage*. doi: 10.1016/j.neuroimage.2021.118452
501. **van der Burght, C.L., Friederici, A.D., Goucha, T. & Hartwigsen, G.** (2021).
Pitch accents differentially establish syntactic and semantic expectations during sentence processing. *Cognition*, 212. doi: 10.1016/j.cognition.2021.104702
500. **Wang, P., Knösche, T.R., Chen, L., Brauer, J., Friederici, A.D. & Maess, B.** (2021).
Functional brain plasticity during L1 training on complex sentences: changes in gamma-band oscillatory activity. *Human Brain Mapping*. doi: 10.1002/hbm.25470
499. **Zaccarella, E., Papitto, G. & Friederici, A.D.** (2021).
Language and action in Broca's area: Computational differentiation and cortical segregation. *Brain and Cognition*, 147: 105651.

2020

498. **Balezeau, F., Wilson, B., Gallardo, G., Dick, F., Hopkins, W., Anwender, A., Friederici, A.D., Griffiths, T.D. & Petkov, C.I.** (2020).
Primate auditory prototype in the evolution of the arcuate fasciculus. *Nature Neuroscience*, 23(5), 611-614. doi: 10.1038/s41593-020-0623-9

497. Chien, P.-J., Friederici, A.D., Hartwigsen, G. & Sammler, D. (2020). Intonation processing increases task-specific fronto-temporal connectivity in tonal language speakers. *Human Brain Mapping*. doi: 10.1002/hbm.25214
496. Chien, P.-J., Friederici, A.D., Hartwigsen, G. & Sammler, D. (2020). Neural correlates of intonation and lexical tone in tonal and non-tonal language speakers. *Human Brain Mapping*, 41(7), 1842-1858.
495. Eichner, C., Paquett, M., Mildner, T., Schlumm, T., Pléh, K., Samuni, L., Crockford, C., Wittig, R.M., Jäger, C., Möller, H.E., Friederici, A.D. & Anwander, A. (2020). Increased sensitivity and signal-to-noise ratio in diffusion-weighted MRI using multi-echo acquisitions. *NeuroImage*, 221:117172. doi: 10.1016/j.neuroimage.2020.117172
494. Enge, A., Friederici, A.D. & Skeide, M.A. (2020). A meta-analysis of fMRI studies of language comprehension in children. *NeuroImage*, 215: 116858. doi: 10.1016/j.neuroimage.2020.116858.
493. Ekerdt, C.E.M., Kühn, C., Anwander, A., Brauer, J. & Friederici, A.D. (2020). Word learning reveals white matter plasticity in preschool children. *Brain Structure and Function*, 225(2), 607-619.
492. Finkl, T., Hahne, A., Friederici, A.D., Gerber, J., Mürbe, D. & Anwander, A. (2020). Language without speech: segregating distinct circuits in the human brain. *Cerebral Cortex*, 30(2), 812-823.
491. Friederici, A.D. (2020). Hierarchy processing in human neurobiology: How specific is it? *Philosophical Transactions of the Royal Society B*, 375(1789): 20180391. doi: 10.1098/rstb.2018.0391.
490. Friedrich, M., Mölle, M., Friederici, A.D. & Knoesche, T.R. (2020). Sleep-dependent memory consolidation in infants protects new episodic memories from existing semantic memories. *Nature Communications*, 11(1):1298. doi: 10.1038/s41467-020-14850-8
489. Grosse Wiesmann, C., Friederici, A.D., Steinbeis, N. & Singer, T. (2020). Two systems for thinking about other's thoughts in the developing brain. *PNAS*, 117(2), 6928-6935.
488. Kuhl, U., Friederici, A.D., LEGASCREEN consortium & Skeide, M.A. (2020). Early cortical surface plasticity relates to basic mathematical learning. *NeuroImage*, 204: 116235. doi: 10.1016/j.neuroimage.2019.116235
487. Kuhl, U., Neef, N., Kraft, I., Schaadt, G., Dörr, L., Brauer, J., Czepezauer, I., Müller, B., Wilcke, A., Kirsten, H., Emmrich, F., Boltze, J., Friederici, A.D. & Skeide, M.A. (2020). The emergence of dyslexia in the developing brain. *NeuroImage*, 211: 116633. doi: 10.1016/j.neuroimage.2020.116633
486. Liebig, J., LEGASCREEN Consortium, Friederici, A.D. & Neef, N.E. (2020). Auditory brainstem measures and genotyping boost the prediction of literacy: A longitudinal study on early markers of dyslexia. *Developmental Cognitive Neuroscience*, 46. doi: 10.1016/j.dcn.2020.100869

485. **Papitto, G., Friederici, A.D. & Zaccarella, E.** (2020).
The topographical organization of motor processing: An ALE meta-analysis on six action domains and the relevance of Broca's region. *NeuroImage*. Advance online publication. doi: 10.1016/j.neuroimage.2019.116321
484. **Schaadt, G., Paul, M., Muralikrishnan, R., Männel, C. & Friederici, A.D.** (2020).
Seven-year-olds recall non-adjacent dependencies after overnight retention. *Neurobiology of Learning and Memory*, 171: 107225.
483. **Trettenbrein, P.C., Papitto, G., Friederici, A.D. & Zaccarella, E.** (2020).
Functional neuroanatomy of language without speech: An ALE meta-analysis of sign language. *Human Brain Mapping*. doi: 10.1002/hbm.25254
482. **van der Kant, A., Männel, C., Paul, M., Friederici, A.D., Höhle, B. & Wartenburger, I.** (2020).
Linguistic and non-linguistic non-adjacent dependency learning in early development. *Developmental Cognitive Neuroscience*, 45: 100819. doi: 10.1016/j.dcn.2020.

2019

481. **Beese, C., Vassileiou, B., Friederici, A.D. & Meyer, L.** (2019).
Age differences in encoding-related alpha power reflect sentence comprehension difficulties. *Frontiers of Aging Neuroscience*, 11:183. doi.org/10.3389/fnagi.2019.00183
480. **Beese, C., Werkle-Bergner, M., Lindenberger, U., Friederici, A.D. & Meyer, L.** (2019).
Adult age differences in the benefit of syntactic and semantic constraints for sentence processing. *Psychology and Aging*, 34(1), 43-55.
479. **Cafiero, R., Brauer, J., Anwander, A. & Friederici, A.D.** (2019).
The concurrence of cortical surface area expansion and white matter myelination in human brain development. *Cerebral Cortex*, 29(2), 827-837.
478. **Friedrich, M., Mölle, M., Friederici, A.D. & Born, J.** (2019).
The reciprocal relation between sleep and memory in infancy: Memory-dependent adjustment of sleep spindles and spindle-dependent improvement of memories. *Developmental Science*, 22(2): e12743. doi: 10.1111/desc.12743
477. **Hahn, G., Skeide, M., Mantini, D., Ganzetti, M., Destexhe, A., Friederici, A.D. & Deco, G.** (2019).
A new computational approach to estimate whole-brain effective connectivity from functional and structural MRI, applied to language development. *Scientific Reports*, 9: 8479. doi: 10.1038/s41598-019-44909-6
476. **Jeon, H.-A., Kuhl, U. & Friederici, A.D.** (2019).
Mathematical expertise modulates the architecture of dorsal and cortico-thalamic white matter tracts. *Scientific Reports*, 9:6825. doi: 10.1038/s41598-019-43400-6
475. **Kroczek, L.O.H, Gunter, T.C., Rysop, A.U., Friederici, A.D. & Hartwigsen, G.** (2019).
Contributions of left frontal and temporal cortex to sentence comprehension: Evidence from simultaneous TMS-EEG. *Cortex*, 115, 86-98.
474. **Mamashli, F., Khan, S., Obleser, J., Friederici, A.D. & Maess, B.** (2019).
Oscillatory dynamics of cortical functional connections in semantic prediction. *Human Brain Mapping*, 40(6), 1856-1866.

473. **Mueller, J.L., Friederici, A.D. & Männel, C.** (2019). Developmental changes in automatic rule-learning mechanisms across early childhood. *Developmental Science*, 22(1), e12700. doi: 10.1111/desc.12700
472. **Qi, T., Schaadt, G., Cafiero, R., Skeide, M.A., Brauer, J. & Friederici, A.D.** (2019). The emergence of long-range language network structural covariance and language abilities. *NeuroImage*, 191, 36-48.
471. **Qi, T., Schaadt, G. & Friederici, A.D.** (2019). Cortical thickness lateralization and its relation to language abilities in children. *Developmental Cognitive Neuroscience*, 39:100704. doi: 10.1016/j.dcn.2019.100704
470. **Regel, S., Opitz, A., Müller, G. & Friederici, A.D.** (2019). Processing inflectional morphology: ERP evidence for decomposition of complex words according to the affix structure. *Cortex*, 116, 143-153.
469. **Strotseva-Feinschmidt, A., Schipke, C.S., Gunter, T.C., Brauer, J. & Friederici, A.D.** (2019). Young children's sentence comprehension: Neural correlates of syntax-semantic competition. *Brain and Cognition*, 116, 143-153.
468. **van der Burght, C.L., Goucha, T., Friederici, A.D., Kreitewolf, J. & Hartwigsen, G.** (2019). Intonation guides sentence processing in the left inferior frontal gyrus. *Cortex*, 117, 122-134.
467. **Wu, C.-Y., Zaccarella, E. & Friederici, A.D.** (2019). Universal neural basis of structure building evidenced by network modulations emerging from Broca's area: The case of Chinese. *Human Brain Mapping*, 40(6), 1705-1717.

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466. **Cheung, V.K.M., Meyer, L., Friederici, A.D. & Koelsch, S.** (2018). The right inferior frontal gyrus processes nested non-local dependencies in music. *Scientific Reports*, 8: 3822. doi:10.1038/s41598-018-22144-9
465. **Friederici, A.D.** (2018). The neural basis for human syntax: Broca's area and beyond. *Current Opinion in Behavioral Sciences*, 21, 88-92.
464. **Grosse Wiesmann, C., Friederici, A.D., Disla, D., Steinbeis, N. & Singer, T.** (2018). Longitudinal evidence for 4-year-olds' but not 2- and 3-year-olds' false belief-related action anticipation. *Cognitive Development*, 46, 58-68.
463. **Neef, N.E., Anwander, A., Bütfering, C., Schmidt-Samoa, C., Friederici, A.D., Paulus, W. & Sommer, M.** (2018). Structural connectivity of right frontal hyperactive areas scales with stuttering severity. *Brain*, 141(1), 191-204.
462. **Sammler, D., Cunitz, K., Gierhan, S.M.E., Anwander, A., Adermann, J., Meixensberger, J. & Friederici, A.D.** (2018). White matter pathways for prosodic structure building: A case study. *Brain and Language*, 183, 1-10.
461. **Skeide, M.A., Bazin, P.-L., Trampel, R., Schäfer, A., Männel, C., von Kriegstein, K. & Friederici, A.D.** (2018). Hypermyelination of the left auditory cortex in developmental dyslexia. *Neurology*, 90(6), e492-e497.

460. **Vassileiou, B., Meyer, L., Beese, C. & Friederici, A.D.** (2018). Alignment of alpha-band desynchronization with syntactic structure predicts successful sentence comprehension. *NeuroImage*, 175, 286-296.
459. **Vavatzanidis, N., Mürbe, D., Friederici, A.D & Hahne, A.** (2018). Establishing a mental lexicon with cochlear implants: an ERP study with young children. *Scientific Reports*, 8: 910. doi:10.1038/s41598-017-18852-3.
458. **Winkler, M., Mueller, J.L., Friederici, A.D. & Männel, C.** (2018). Infant cognition includes the potentially human-unique ability to encode embedding. *Science Advances*, 4(11): eaar8334. doi: 10.1126/sciadv.aar8334.

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457. **Beese, C., Meyer, L., Vassileiou, B. & Friederici, A.D.** (2017). Temporally and spatially distinct theta oscillations dissociate a language-specific from a domain-general processing mechanism across the age trajectory. *Scientific Reports*, 7:11202. doi:10.1038/s41598-017-11632-z
456. **Bonhage, C.E., Meyer, L., Gruber, T., Friederici, A.D. & Mueller, J.L.** (2017). Oscillatory EEG dynamics underlying automatic chunking during sentence processing. *NeuroImage*, 152, 647-657.
455. **Friederici, A.D.** (2017). Evolution of the neural language network. *Psychonomic Bulletin and Review*, 24(1), 41-47.
454. **Friederici, A.D.** (2017). Neurobiology of syntax as the core of human language. *Biolinguistics*, 11, SI: 325-337.
453. **Friederici, A.D., Chomsky, N., Berwick, R.C., Moro, A., & Bolhuis, J.J.** (2017). Language, mind and brain. *Nature Human Behaviour*, 1, 713-722.
452. **Friedrich, M. & Friederici, A.D.** (2017). The origins of word learning: Brain responses of 3-month-olds indicate their rapid association of objects and words. *Developmental Science*, 20(2): e12357. doi: 10.1111/desc.12357
451. **Friedrich, M., Wilhelm, I., Mölle, M., Born, J. & Friederici, A.D.** (2017). The sleeping infant brain anticipates development. *Current Biology*, 27(15), 2374–2380.
450. **Goucha, T., Zaccarella, E. & Friederici, A.D.** (2017). A revival of the *Homo loquens* as a builder of labeled structures: neurocognitive considerations. *Neuroscience & Biobehavioral Reviews*, 81(Part B), 213-224.
449. **Grosse Wiesmann, C., Friederici, A.D., Singer, T. & Steinbeis, N.** (2017). Implicit and explicit false belief development in preschool children. *Developmental Science*, 20(5): e12445. doi: 10.1111/desc.12445
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447. **Jeon, H.-A. & Friederici, A.D.** (2017). What does "being an expert" mean to the brain? Functional specificity and connectivity in expertise. *Cerebral Cortex*, 27(12), 5603-5615.
446. **Kuhnke, P., Meyer, L., Friederici, A.D. & Hartwigsen, G.** (2017). Left posterior inferior frontal gyrus is causally involved in reordering during sentence processing. *NeuroImage*, 148, 254-263.
445. **Männel, C., Schaadt, G., Illner, F.K., van der Meer, E. & Friederici, A.D.** (2017). Phonological abilities in literacy-impaired children: Brain potentials reveal deficient phoneme discrimination, but intact prosodic processing. *Developmental Cognitive Neuroscience*, 23, 14-25.
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443. **Müller, B., Schaadt, G., Boltze, J., Emmrich, F., LEGASCREEN Consortium, Skeide, M.A., Neef, N., Kraft, I., Brauer, J., Friederici, A.D., Kirsten, H. & Wilcke, A.** (2017). ATP2C2 and DYX1C1 are putative modulators of dyslexia-related MMR. *Brain and Behavior*, 7(11): e00851. doi: 10.1002/brb3.851
442. **Neef, N.E., Anwander, A. & Friederici, A.D.** (2017). The dorsal pathways: A comment on Kronfeld-Duenias et al. *Cortex*, 90, 166-168.
441. **Neef, N.E., Müller, B., Liebig, J., Schaadt, G., Grigutsch, M., Gunter, T.C., Wilcke, A., Kirsten, H., Skeide, M.A., Kraft, I., Kraus, N., Emmrich, F., Brauer, J., Boltze, J. & Friederici, A.D.** (2017). Dyslexia risk gene relates to representation of sound in the auditory brainstem. *Developmental Cognitive Neuroscience*, 24, 63-71.
440. **Neef, N.E., Schaadt, G. & Friederici, A.D.** (2017). Auditory brainstem responses to stop consonants predict literacy. *Clinical Neurophysiology*, 128, 484–494.
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438. **Schell, M., Zaccarella, E. & Friederici, A.D.** (2017). Differential cortical contribution of syntax and semantics: An fMRI study on two-word phrasal processing. *Cortex*, 96, 105–120.
437. **Vissienon, K., Friederici, A.D., Brauer, J. & Wu, C.-Y.** (2017). Functional organization of the language network in three- and six-year-old children. *Neuropsychologia*, 98, 24-33.
436. **Zaccarella, E. & Friederici, A.D.** (2017). The neurobiological nature of syntactic hierarchies. *Neuroscience & Biobehavioral Reviews*, 81(Part B), 205-212.
435. **Zaccarella, E., Meyer, L., Makuuchi, M. & Friederici, A.D.** (2017). Building by syntax: The neural basis of minimal linguistic structures. *Cerebral Cortex*, 27(1), 411-421.

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Reviewing the functional basis of the syntactic Merge mechanism for language: A coordinate-based activation likelihood estimation meta-analysis. *Neuroscience and Biobehavioral Reviews*, *80*, 646-656.

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Syntax in action beats movement selection in piano playing. *Journal of Cognitive Neuroscience*, *28*(1), 41–54.
432. **Bianco, R., Novembre, G., Keller, P. E., Kim, S.-G., Scharf, F., Friederici, A. D., Villringer, A., & Sammler, D.** (2016).
Neural networks for harmonic structure in music perception and action. *NeuroImage*, *142*, 454–464.
431. **Brauer, J., Xiao, Y., Poulain, T., Friederici, A.D. & Schirmer, A.** (2016).
Frequency of maternal touch predicts resting activity and connectivity of the developing social brain. *Cerebral Cortex*, *26*(8), 3544–3552.
430. **Fengler, A., Meyer, L. & Friederici, A.D.** (2016).
How the brain attunes to sentence processing: Relating behavior, structure, and function. *NeuroImage*, *129*, 268–278.
429. **Goranskaya, D., Kreitewolf, J., Mueller, J.L., Friederici, A.D. & Hartwigsen, G.** (2016).
Fronto-parietal contributions to phonological processes in successful artificial grammar learning. *Frontiers in Human Neuroscience*, *10*:551. doi: 10.3389/fnhum.2016.00551
428. **Kraft, I., Schreiber, J., Cafiero, R., Schaadt, G., Brauer, J., Neef, N., Müller, B., Kirsten, H., Wilcke, A., Boltze, J., Friederici, A.D. & Skeide, M.** (2016).
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Prediction signatures in the brain: Semantic pre-activation during language comprehension. *Frontiers in Human Neuroscience*, *10*:591. doi: 10.3389/fnhum.2016.00591.
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Neural correlates of prosodic boundary perception in German preschoolers: If pause is present, pitch can go. *Brain Research*, *1632*, 27–33.
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Classifying song and speech: Effects of focal temporal lesions and musical disorder. *Neurocase*, *22*(6), 496–504.
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Evolutionary origins of non-adjacent sequence processing in primate brain potentials. *Scientific Reports*, *6*: 36259. doi:10.1038/srep36259.
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Left posterior-dorsal area 44 couples with parietal areas to promote speech fluency, while right area 44 activity promotes the stopping of motor responses. *NeuroImage*, *142*, 628–644.

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