

List of Publications

A. Articles in peer-reviewed journals

in press

475. **Kroczek, L.O.H, Gunter, T.C., Rysop, A.U., Friederici, A.D. & Hartwigsen, G.** (in press).
Contributions of left frontal and temporal cortex to sentence comprehension: Evidence from simultaneous TMS-EEG. *Cortex*.
474. **Regel, S., Opitz, A., Müller, G. & Friederici, A.D.** (in press).
Processing inflectional morphology: ERP evidence for decomposition of complex words according to the affix structure. *Cortex*.

2019

473. **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.

2018

472. **Beese, C., Werkle-Bergner, M., Lindenberger, U., Friederici, A.D. & Meyer, L.** (2018).
Adult age differences in the benefit of syntactic and semantic constraints for sentence processing. *Psychology and Aging*. Advance online publication. doi: 10.1037/pag0000300
471. **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
470. **Friederici, A.D.** (2018).
The neural basis for human syntax: Broca's area and beyond. *Current Opinion in Behavioral Sciences*, 21, 88-92.
469. **Friedrich, M., Mölle, M., Friederici, A.D. & Born, J.** (2018).
The reciprocal relation between sleep and memory in infancy: Memory-dependent adjustment of sleep spindles and spindle-dependent improvement of memories. *Developmental Science*, e12743. doi: 10.1111/desc.12743
468. **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.
467. **Mamashli, F., Khan, S., Obleser, J., Friederici, A.D. & Maess, B.** (2018).
Oscillatory dynamics of cortical functional connections in semantic prediction. *Human Brain Mapping*. doi: 10.1002/hbm.24495
466. **Mueller, J.L., Friederici, A.D. & Männel, C.** (2018).
Developmental changes in automatic rule-learning mechanisms across early childhood. *Developmental Science*, 22(1), e12700. doi: 10.1111/desc.12700

465. **Neef, N., 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.
464. **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.
463. **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.
462. **Strotseva-Feinschmidt, A., Schipke, C.S., Gunter, T.C., Brauer, J. & Friederici, A.D.** (2018). Young children's sentence comprehension: Neural correlates of syntax-semantic competition. *Brain and Cognition*. Doi: 10.1016/j.bandc.2018.09.003
461. **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.
460. **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.
459. **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: eaar8334. doi: 10.1126/sciadv.aar8334.
458. **Wu, C.-Y., Zaccarella, E. & Friederici, A.D.** (2018). Universal neural basis of structure building evidenced by network modulations emerging from Broca's area: The case of Chinese. *Human Brain Mapping*. doi: 10.1002/hbm.24482

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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, Article number: 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., 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
448. **Grosse Wiesmann, C., Schreiber, J., Singer, T. Steinbeis, N. & Friederici, A.D.** (2017).
White matter maturation is associated with the emergence of Theory of Mind in early childhood. *Nature Communications*, 8, 14692. doi: 10.1038/ncomms14692.
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.
444. **Meyer, L., Henry, M.J., Gaston, P., Schmuck, N. & Friederici, A.D.** (2017).
Linguistic bias modulates interpretation of speech via neural delta-band oscillations. *Cerebral Cortex*, 27(9), 4293–4302.
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.

439. **Regel, S., Kotz, S. A., Henseler, I. & Friederici, A. D.** (2017). Left inferior frontal gyrus mediates morphosyntax: ERP evidence from verb processing in left-hemisphere damaged patients. *Cortex*, *86*, 156–171.
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. **Vissiennon, 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.
434. **Zaccarella, E., Schell, M. & Friederici, A.D.** (2017). 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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433. **Bianco, R., Novembre, G., Keller, P.E., Friederici, A.D., Villringer, A. & Sammler, D.** (2016). 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). Predicting early signs of dyslexia at a preliterate age by combining behavioral assessment with structural MRI. *NeuroImage*, *143*, 378–386.

427. **Maess, B., Mamashli, F., Obleser, J. Helle, L. & Friederici, A.D.** (2016). Prediction signatures in the brain: Semantic pre-activation during language comprehension. *Frontiers in Human Neuroscience*, 10:591. doi: 10.3389/fnhum.2016.00591.
426. **Männel, C. & Friederici, A.D.** (2016). Neural correlates of prosodic boundary perception in German preschoolers: If pause is present, pitch can go. *Brain Research*, 1632, 27–33.
425. **Merrill, J., Bangert, M., Sammler, D. & Friederici, A.D.** (2016). Classifying song and speech: Effects of focal temporal lesions and musical disorder. *Neurocase*, 22(6), 496–504.
424. **Milne, A.E., Mueller, J.L., Männel, C., Attaheri, A., Friederici, A.D. & Petkov, C.I.** (2016). Evolutionary origins of non-adjacent sequence processing in primate brain potentials. *Scientific Reports*, 6: 36259. doi:10.1038/srep36259.
423. **Neef, N.E., Bütfering, C., Anwander, A., Friederici, A.D., Paulus, W. & Sommer, M.** (2016). 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.
422. **Schaadt, G., Männel, C., van der Meer, E., Pannekamp, A., & Friederici, A.D.** (2016). Facial speech gestures: The relation between visual speech processing, phonological awareness, and developmental dyslexia in 10-year-olds. *Developmental Science*, 19(6), 1020-1034.
421. **Skeide, M., Brauer, J. & Friederici, A.D.** (2016). Brain functional and structural predictors of language performance. *Cerebral Cortex*, 26(5), 2127–2139.
420. **Skeide, M.A. & Friederici, A.D.** (2016). The ontogeny of the cortical language network. *Nature Reviews Neuroscience*, 17, 323–332.
419. **Skeide, M.A., Kraft, I., Müller, B., Schaadt, G., Neef, N.E., Brauer, J., Wilcke, A., Kirsten, H., Boltze, J. & Friederici, A.D.** (2016). NRSN1 associated grey matter volume of the visual word form area reveals dyslexia before school. *Brain*, 139, 2792–2803.
418. **Vavatzanidis, N., Mürbe, D., Friederici, Angela D. & Hahne, A.** (2016). The perception of stress pattern in young cochlear implanted children: an EEG study. *Frontiers in Neuroscience*, 10:68. doi: 10.3389/fnins.2016.00068.
417. **Wu, C.-Y., Vissienon, K., Friederici, A.D. & Brauer, J.** (2016). Preschoolers' brains rely on semantic cues prior to the mastery of syntax during sentence comprehension. *NeuroImage*, 126, 256–266.
416. **Xiao, Y., Brauer, J., Lauckner, M., Zhai, H., Jia, F., Margulies, D.S., & Friederici, A.D.** (2016). Development of the intrinsic language network in Chinese preschool children from age 3 to 5 years. *PLoS ONE*, 11(11): e0165802. doi:10.1371/journal.pone.0165802

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413. **Xiao, Y., Zhai, H., Friederici, A.D. & Jia, F.** (2016). The development of the intrinsic functional connectivity of default network subsystems from age 3 to 5. *Brain Imaging and Behavior*, *10*(1), 50–59.

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412. **Bonhage, C.E., Mueller, J.L., Friederici, A.D. & Fiebach, C.** (2015). Combined eye tracking and fMRI reveals neural basis of linguistic predictions during sentence comprehension. *Cortex*, *68*, 33-47.
411. **Fengler, A., Meyer, L. & Friederici, A.D.** (2015). Brain structural correlates of complex sentence comprehension in children. *Developmental Cognitive Neuroscience*, *15*, 48-57.
410. **Friederici, A.D. & Singer, W.** (2015). Grounding language processing on basic neurophysiological principles. *Trends in Cognitive Sciences*, *19*(6), 329-338.
409. **Friedrich, M., Wilhelm, I., Born, J., & Friederici, A.D.** (2015). Generalization of word meanings during infant sleep. *Nature Communications*, *6*: 6004. doi:10.1038/ncomms7004
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407. **Jeon, H.-A. & Friederici, A.D.** (2015). Degree of automaticity and the prefrontal cortex. *Trends in Cognitive Sciences*, *19*(5), 244-250.
406. **Kraft, I., Cafiero, R., Schaadt, G., Brauer, J., Neef, N., Müller, B., Kirsten, H., Wilcke, A., Boltze, J., Friederici, A. D., & Skeide, M. A.** (2015). Cortical differences in preliterate children at familiar risk of dyslexia are similar to those observed in dyslexic readers. *Brain*, *138*(9):e378. doi:10.1093/brain/awv036
405. **Männel, C., Meyer, L., Wilcke, A., Boltze, J., Kirsten, H. & Friederici, A.D.** (2015). Working-memory endophenotype and dyslexia associated genetic variant predict dyslexia phenotype. *Cortex*, *71*, 291-305.
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The past tense debate revisited: Electrophysiological evidence for subregularities of irregular verb inflection. *Journal of Cognitive Neuroscience*, 27(9), 1870-1885.
401. **Santi, A., Friederici, A.D., Makuuchi, M. & Grodzinsky, Y.** (2015).
An fMRI study dissociating distance measures computed by Broca's area in movement processing: clause boundary vs. identity. *Frontiers in Psychology*, 6:654. doi: 10.3389/fpsyg.2015.00654.
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Sex hormones in early infancy seem to predict aspects of later language development. *Brain and Language*, 141, 70-76.
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397. **Skeide, M.A., Kirsten, H., Kraft, I., Schaadt, G., Müller, B., Neef, N., Brauer, J., Wilcke, A., Emmrich, F., Boltze, J. & Friederici, A.D.** (2015).
Genetic dyslexia risk variant is related to neural connectivity patterns underlying phonological awareness in children. *NeuroImage*, 118, 414-421.
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Auditory discrimination between function words in children and adults: a mismatch negativity study. *Frontiers in Psychology*, 6:1930. doi: 10.3389/fpsyg.2015.01930
395. **Vavatzanidis, N., Mürbe, D., Friederici, A.D. & Hahne, A.** (2015).
The basis for language acquisition: Congenitally deaf infants discriminate vowel length in the first months after cochlear implantation. *Journal of Cognitive Neuroscience*, 27(12), 2427-2441.
394. **Zaccarella, E. & Friederici, A.D.** (2015).
Merge in the human brain: a sub-region based functional investigation in the left pars opercularis. *Frontiers in Psychology*, 6:1818. doi: 10.3389/fpsyg.2015.01818.
393. **Zaccarella, E. & Friederici, A.D.** (2015).
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392. **Zilles, K., Bacha-Trams, M., Palomero-Gallagher, N., Amunts, K. & Friederici, A.D.** (2015).
Common molecular basis of the sentence comprehension network revealed by neurotransmitter receptor fingerprints. *Cortex*, 63, 79-89.

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Neural correlates of music-syntactic processing in two-year old children. *Developmental Cognitive Neuroscience*, 9, 200-208.

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384. **Steinmann, S., Leicht, G., Ertl, M., Andreou, C., Polomac, N., Westerhausen, R., Friederici, A.D. & Mulert, C.** (2014). Conscious auditory perception related to long-range synchrony of gamma oscillations. *NeuroImage*, *100*, 435-443.

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378. **Friedrich, R. & Friederici, A.D.** (2013). Mathematical logic in the human brain: Semantics. *PLoS ONE* *8*(1): e53699.
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