

List of Publications

**A. Articles in peer-reviewed journals**

in press

483. **Friederici, A.D.** (in press).  
Hierarchy processing in human neurobiology: How specific is it? *Philosophical Transactions B*.
482. **Qi, T., Schaadt, G. & Friederici, A.D.** (in press).  
Cortical thickness lateralization and its relation to language abilities in children. *Developmental Cognitive Neuroscience*.

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. **Finkl, T., Hahne, A., Friederici, A.D., Gerber, J., Mürbe, D. & Anwander, A.** (2019).  
Language without speech: segregating distinct circuits in the human brain. *Cerebral Cortex*. Advance online publication. doi: 10.1093/cercor/bhz128
477. **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
476. **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
475. **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
474. **Kroczyk, 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.
473. **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.

472. **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
471. **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.
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*. doi: 10.1016/j.cortex.2018.10.003
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.

## 2018

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.

2017

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
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.
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442. **Neef, N.E., Anwender, 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.

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.
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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
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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.
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414. **Xiao, Y., Friederici, A.D., Margulies, D. & Brauer, J.** (2016). Longitudinal changes in resting-state fMRI from age 5 to age 6 years covary with language development. *NeuroImage*, *128*, 116–124.
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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.

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408. **Goucha, T.B. & Friederici, A.D.** (2015). The language skeleton after dissecting meaning: a functional segregation within Broca's area. *NeuroImage*, 114(6), 294-302.
407. **Jeon, H.-A. & Friederici, A.D.** (2015). Degree of automaticity and the prefrontal cortex. *Trends in Cognitive Sciences*, 19(5), 244-250.
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404. **Meyer, L., Grigutsch, M., Schmuck, N., Gaston, P. & Friederici, A.D.** (2015). Frontal-posterior theta oscillations reflect memory retrieval during sentence comprehension. *Cortex*, 71, 205-218.
403. **Neef, N., Anwander, A., & Friederici, A.D.** (2015). The neurobiological grounding of persistent stuttering: From structure to function. *Current Neurology and Neuroscience Reports*, 15(9):63. doi:10.1007/s11910-015-0579-4.
402. **Regel, S., Opitz, A., Müller, G. & Friederici, A.D.** (2015). 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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398. **Skeide, M.A. & Friederici, A.D.** (2015). Response to Bornkessel-Schlesewsky *et al.* – towards a nonhuman primate model of language? *Trends in Cognitive Sciences*, 19(9), 483.

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## 2013

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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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