LOG ID	BOOK REFERENCE	RCT FILTER	CONFIDENCE TIER
SEC 8.0.1	CHAPTER 8: COGNITIVE DOWNCLOCK (10 Bits vs. 1 Billion)	**OFF**	**CONSENSUS**

AUDITED CLAIM

PREFACE (CONTROL ILLUSION)

SYSTEMS MODEL — AS STATED IN THE BOOK

> Clinically, neuroanatomical evidence confirms that while the left hemisphere is highly specialized for core **syntactic and linguistic computation**, the right hemisphere is distinctly specialized for integrating **prosody, social context, and relational meaning**.

VALIDATION QUERY

Does the left hemisphere specialize in core linguistic and syntactic processing while the right hemisphere specializes in processing prosody, social context, and relational meaning?

EMPIRICAL FINDING

Functional brain mapping demonstrates that core linguistic and syntactic computations are strongly left-lateralized in the vast majority of adults, while right-perisylvian regions contribute uniquely to processing affective prosody, narrative coherence, and social discourse. Popular dichotomies implying total hemispheric isolation are significant neurobiological oversimplifications.

PRIMARY ANCHORS

→ **Friederici, 2011, Physiological Reviews**

→ **Vigneau et al., 2006, NeuroImage**

ABOUT THIS RECORD

Each claim in the book is decompiled from its IT metaphor into a naked, falsifiable scientific claim, then anchored to a **primary peer-reviewed source**. Claim and anchor are queried against the Consensus academic database (200M+ papers) under a fixed protocol — top-tier **Q1/Q2 journals only**, preprints excluded, human studies only. If a hypothesis fails the audit, the build is rejected: the AI generates the syntax; the peer-reviewed grid validates the physics.

CONFIDENCE TIERS

- **CONSENSUS ◀ this log** — broadly established, highly replicated mechanics.
- **EMERGING** — plausible, actively researched; no universal consensus yet.
- **EXPERIMENTAL** — contested, extrapolated, or purely theoretical.

RCT FILTER — Controlled Studies is ON for interventions (a forced action must beat a control) and OFF for mechanisms (so foundational neuroscience isn't blocked).

Yes, **the left hemisphere specializes** in **core language**, while the right contributes more to **prosody and social meaning**.

Core language functions are predominantly left-lateralized, but the full claim is only partly correct because the right hemisphere's role is real, important, and not limited to prosody alone. Large reviews and meta-analyses consistently place sentence processing, intelligible speech, and much of morphosyntax in left frontotemporal networks, with especially strong evidence for left inferior frontal and temporal involvement (Friederici, 2011; Vigneau et al., 2006; Turker et al., 2023). Lesion and developmental studies also show that syntactic proficiency tracks stronger left inferior frontal engagement and that left temporal-frontal connections are critical for sentence comprehension, especially for more complex structures (Nuñez et al., 2011; Biondo et al., 2024).

Does the left hemisphere specialize in core linguistic and syntactic processing while the right hemisphere specializes in processing prosody, social context, and relational meaning?

N = 6

Yes 83% · Possibly 0% · Mixed 0% · No 17%

FIGURE 1 Research consensus on hemispheric specialization in language

The literature supports a **qualified yes**: left dominance for core linguistic processing is strong, but right-hemisphere specializations are broader, more context-dependent, and often bilateral rather than exclusive (Chai et al., 2016; Bradshaw et al., 2017).

1. Introduction

The classic asymmetry remains robust across methods: most adults show left-hemisphere dominance for language, especially for production, syntax, and intelligible sentence processing (Rajimehr et al., 2021; Olulade et al., 2020; Bradshaw et al., 2017). Meta-analyses refine that picture by showing a distributed rather than modular left-lateralized architecture, with bilateral support for some subdomains and strong task dependence in measured laterality (Vigneau et al., 2006; Turker et al., 2023; Bradshaw et al., 2017).

The right hemisphere is most consistently implicated in affective prosody, social processing, discourse-level integration, and some nonliteral or relational aspects of meaning, but these functions do not map onto a simple "everything beyond syntax is right hemisphere" rule (Wildgruber et al., 2005; Rajimehr et al., 2021; Ferstl et al., 2008). Several studies show bilateral or cue-dependent processing for linguistic prosody, and some right-hemisphere recruitment during semantics reflects social content, narrative context, or control demands rather than a unitary specialization for "relational meaning" (Kreitewolf et al., 2014; Demirkan & Branzi, 2025).

2. Methods

This Deep Search synthesis drew from a search over more than 170 million research papers indexed by Consensus across Semantic Scholar, PubMed, and other sources. The workflow identified 14,113 initially relevant human papers for the focal query, screened 240 machine-filtered candidates, judged 182 eligible after deduplication and relevance review, and included the top 50 ranked papers for this synthesis.

Search Strategy

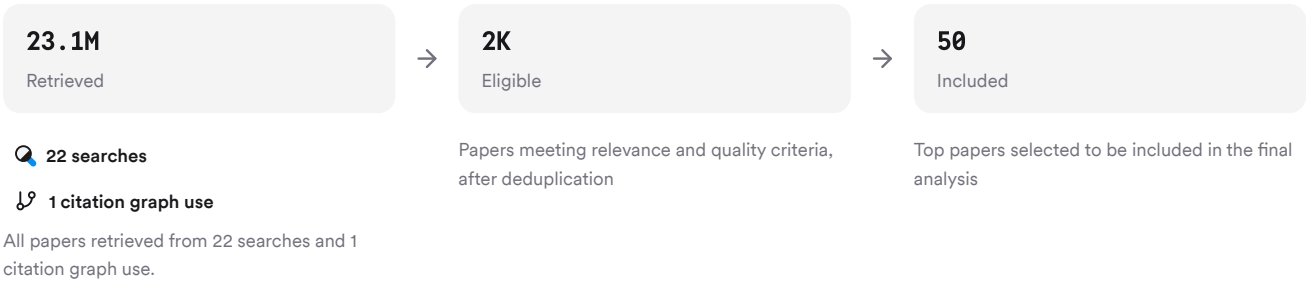

FIGURE 2 Search funnel for included hemispheric specialization studies

The search combined foundational lateralization papers, subdomain-specific searches on syntax, prosody, pragmatics, discourse, and social meaning, plus studies challenging strict left-right dichotomies.

3. Results

3.1 Key Papers

Three papers anchor the corpus because they summarize the field at different levels: a foundational review of left-right division in language functions, a large left-hemisphere meta-analysis, and the largest recent cross-subdomain meta-analysis spanning syntax, semantics, phonology, and prosody (Friederici, 2011; Vigneau et al., 2006; Turker et al., 2023). Together they establish the strongest baseline for judging whether the left/right specialization claim holds.

Paper	Summary
(Friederici, 2011)	Left-lateralized syntax; right-lateralized prosody (Friederici, 2011)
(Vigneau et al., 2006)	Large-scale left language architecture meta-analysis (Vigneau et al., 2006)
(Chai et al., 2016)	Bilateral language overall; right-specific prosody (Turker et al., 2023)

FIGURE 3 Foundational papers on hemispheric language specialization

3.2 Core Language And Syntax

Evidence for left specialization is strongest for sentence-level language, intelligibility, and morphosyntactic computation. Intelligible speech produces a statistically significant left-dominant pattern that is not explained by low-level acoustics alone (McGettigan et al., 2011). Left lesions reliably predict aphasia, and in post-stroke aphasia, better language function correlates more consistently with surviving left language regions than with right-homologue recruitment (Wilson & Schneck, 2020).

Dimension	Left Hemisphere	Right Hemisphere	Citations
Sentence processing	Dominant in most adults	Supportive or variable	(Newport et al., 2022; Gurunandan et al., 2020)
Complex syntax	Left IFG and posterior temporal	Limited, indirect support	(Walenski et al., 2019; Tyler et al., 2010)

Dimension	Left Hemisphere	Right Hemisphere	Citations
Morphosyntax	Syntax-sensitive ROIs	More executive control roles	(Meykadeh et al., 2021)
Intelligibility	Clear left advantage	No equivalent dominance	(McGettigan et al., 2011)
Development	Becomes more left-specialized	Early contribution declines	(Olulade et al., 2020)

Left specialization is strong, but syntax itself may not reside in a single syntax-only cortical module. Recent meta-analysis detected no syntax-specific region, and individual-subject fMRI found no area more responsive to syntax than lexico-semantic processing across the left language network (Turker et al., 2023; Fedorenko et al., 2020).

3.3 Prosody, Emotion, And Social Context

The strongest right-hemisphere evidence concerns affective or slow-timescale prosodic processing. Emotional prosody evokes right-lateralized frontotemporal responses that roughly mirror left-lateralized sentence comprehension, while right superior temporal and inferior frontal regions are repeatedly implicated in affective intonation (Seydell-Greenwald et al., 2019; Wildgruber et al., 2005). Prosody meta-analysis likewise found subdomain-specific engagement of the right amygdala and right IFG (Turker et al., 2023).

That said, linguistic prosody is not simply right-lateralized. Lesion and fMRI work shows that linguistic prosody often recruits both hemispheres, with left involvement increasing when prosody serves grammatical or lexical interpretation and right involvement increasing for pitch contour or emotional meaning (Kreitewolf et al., 2014; Walker et al., 2002; Meyer et al., 2002).

The right hemisphere also contributes more when language depends on social cognition or broad contextual integration. In over 1,000 subjects, right-hemisphere homologues of left language areas showed complementary lateralization for social processing (Rajimehr et al., 2021). Narrative and discourse studies show increasing right-hemisphere activity as contextual complexity rises, especially for whole-story coherence, metaphor, and other higher-order integration demands (Xu et al., 2005; Ferstl et al., 2008).

3.4 Boundary Cases And Exceptions

The neat division breaks down in several important cases. Linguistic prosody can shift leftward when it carries grammatical structure, as seen in sentence-level prosody development, intonation-guided sentence processing, and tone languages where pitch is linguistically contrastive (Pasquinelli et al., 2023; Van Der Burght et al., 2022; Tsiwah et al., 2023). Conversely, right temporal regions can contribute to semantics when stimuli contain social content or mentalizing demands (Demirkan & Branzi, 2025).

Plasticity studies show the right hemisphere can acquire typically left-lateralized sentence processing after very early left injury, often with good outcomes, but even then the reorganized system tends to preserve some spatial segregation between sentence processing and emotional prosody rather than collapsing them into one shared territory (Newport et al., 2022; Martin et al., 2024). In adults with left-hemisphere damage, increased right activation appears to provide semantic or pragmatic support rather than taking over syntax itself (Tyler et al., 2010).

Results Timeline

Hemispheric specialization research has moved from broad dichotomies to network-based, task-dependent models.

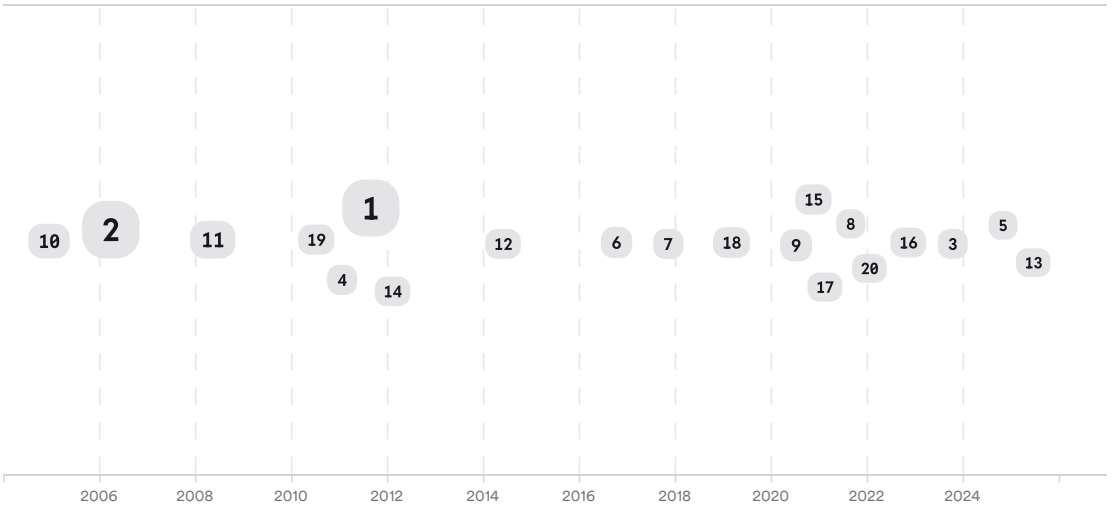

FIGURE 4 Timeline of hemispheric specialization findings; larger markers indicate more citations

The arc runs from classic left-language/right-prosody models toward more nuanced accounts emphasizing bilateral cooperation, developmental change, and cue-dependent lateralization (Hervé et al., 2013; Labache et al., 2020).

Top Contributors

Recurring contributors in this corpus include **A. Friederici**, **E. Newport**, and **N. Tzourio-Mazoyer**, alongside journals such as **NeuroImage**, **Human Brain Mapping**, and **Proceedings of the National Academy of Sciences**.

Type	Name	Papers
Author	A. Friederici	[324b171e93c85a49984c0f7711a395ea][4074c7758a425e41acac0ef6998fe3f3] [942793543aa559c88790d1c605cdf960]
Author	E. Newport	[295036ada3585ec7b1ddf4cbfbdef76b][f87b2579bbd55952be40ce94ed73ad2c] [8c2a5068edf15fd29c6dc80d99540376]
Author	N. Tzourio-Mazoyer	[82be8bb4bdc35cfd9d21358baccf889e] [03650920414c559c991b8b3ab530a498] [ba5e3230863250eebef7ee9ce67612a5]
Journal	*NeuroImage*	[82be8bb4bdc35cfd9d21358baccf889e][4074c7758a425e41acac0ef6998fe3f3] [4068ae15177c5d6498d951dfc6f69ecf]
Journal	*Human Brain Mapping*	[942793543aa559c88790d1c605cdf960][a444f3d188615b9b95ed3fd4e0bad761] [35e3237117d053cdb143ef59faa57233]
Journal	*Proceedings of the National Academy of Sciences*	[f87b2579bbd55952be40ce94ed73ad2c][d827b15e282b5f17af09c41472bd4da3] [c33c804f75cc5cc6a25f5822ce2fb9c5]

FIGURE 5 Authors and journals most frequent in this corpus

4. Discussion

The strongest part of the evidence is the left hemisphere's specialization for core language, especially sentence processing and syntactic operations. That conclusion is supported across lesion studies, large meta-analyses, developmental imaging, and task-fMRI, which converge more than the prosody literature does (Tyler et al., 2010; Olulade et al., 2020; Turker et al., 2023). Even where newer work questions syntax-selective cortical modules, it does not challenge left dominance for core sentence-level language; it mainly argues that syntax and meaning are integrated within that left-lateralized network (Fedorenko et al., 2020).

Evidence for right-hemisphere specialization is also substantial, but narrower and more heterogeneous. It is strongest for affective prosody, slow pitch contour, social processing, and discourse-level integration (Wildgruber et al., 2005; Meyer et al., 2002; Rajimehr et al., 2021). It is weaker for a blanket claim that the right hemisphere generally specializes in all "relational meaning," because semantics can remain left-biased overall while right temporal areas appear especially for social content, narrative context, metaphor, or control-heavy tasks (Turker et al., 2023; Demirkan & Branzi, 2025; Ferstl et al., 2008).

Methodological differences matter. Reviews repeatedly note that laterality estimates vary with task design, control condition, stimulus properties, and whether prosody is linguistic or emotional (Kreitewolf et al., 2014; Walker et al., 2002; Bradshaw et al., 2017). This is why simple left/right slogans are useful as a first approximation but misleading as a full model.

Claim	Evidence Strength	Reasoning	Papers
Left hemisphere dominates core sentence-level language in most adults	Strong	Converges across lesion, meta-analytic, developmental, and imaging evidence	(Olulade et al., 2020; Turker et al., 2023; Bradshaw et al., 2017)
Left frontotemporal regions are especially important for syntactic processing	Strong	Strong convergence, though no single syntax-only hub is agreed upon	(Tyler et al., 2010; Biondo et al., 2024; Fedorenko et al., 2020)
Right hemisphere specializes in affective prosody more than left	Strong	Replicated in fMRI, lesion reviews, and prosody meta-analysis	(Wildgruber et al., 2005; Ukaegbe et al., 2022; Turker et al., 2023)
Right hemisphere preferentially supports social context and discourse integration	Moderate	Good support, but functions are broader and partly bilateral	(Rajimehr et al., 2021; Xu et al., 2005; Ferstl et al., 2008)
Linguistic prosody is primarily right-lateralized	Weak	Evidence is mixed and often supports bilateral or cue-dependent processing	(Kreitewolf et al., 2014; Ukaegbe et al., 2022; Tsiwah et al., 2023)

FIGURE 6 Key claims and evidence in hemispheric specialization

5. Conclusion

The best-supported answer is **yes, with important qualifications**. The left hemisphere specializes in core linguistic processing, especially sentence processing, intelligibility, and much of morphosyntax, while the right hemisphere is more engaged in affective prosody, social processing, and broader contextual integration. But neither side works alone, and several supposedly "right-sided" functions, especially linguistic prosody, are bilateral or depend on cue type, task demands, development, and language experience.

Research Gaps

The main gap is not whether asymmetry exists, but how specific subfunctions partition across hemispheres under different tasks, populations, and developmental stages. The evidence is strongest for core language and affective prosody, and thinner for pragmatic language, relational semantics, and cross-linguistic variation.

Topic/Outcome	RCT-like causal methods	Lesion evidence	Developmental data	Cross-linguistic breadth
Core syntax	2	10	6	3
Affective prosody	2	8	2	3
Linguistic prosody	2	7	4	5
Social/pragmatic language	1	3	1	1
Relational/narrative meaning	1	3	2	2

Open Research Questions

Better-matched tasks are needed to separate acoustic, linguistic, social, and executive contributions to hemispheric asymmetry.

Question	Why
When does linguistic prosody lateralize left, right, or bilaterally?	Current studies show cue-dependent and task-dependent laterality, but methods vary too much for a settled model.
Which right-hemisphere regions support social meaning versus semantic control?	Narrative and social-semantic studies implicate different right temporal and frontal regions that are not yet clearly dissociated.
How does early plasticity preserve separation between sentence processing and prosody in one hemisphere?	Perinatal stroke studies suggest segregation remains important even when both functions reorganize into the right hemisphere.

Overall, the left hemisphere does specialize in core linguistic and syntactic processing and the right hemisphere does specialize more in prosody and social-contextual meaning, but the most accurate model is **complementary, bilateral, and task-dependent**, not strictly dichotomous.

References

Biondo, N., Ivanova, M. V., Pracar, A. L., Baldo, J. V., & Dronkers, N. (2024). Mapping sentence comprehension and syntactic complexity: evidence from 131 stroke survivors. *Brain Communications, 6*. https://doi.org/10.1093/braincomms/fcae379

Bradshaw, A. R., Thompson, P., Wilson, A. C., Bishop, D., & Woodhead, Z. (2017). Measuring language lateralisation with different language tasks: a systematic review. *PeerJ, 5*. https://doi.org/10.7717/peerj.3929

Chai, L. R., Mattar, M., Blank, I., Fedorenko, E., & Bassett, D. (2016). Functional Network Dynamics of the Language System. *Cerebral Cortex (New York, NY), 26*, 4148 - 4159. https://doi.org/10.1093/cercor/bhw238

Demirkan, E., & Branzi, F. M. (2025). The Role of the Right Language Network and the Multiple-Demand Network in Verbal Semantics: Insights From an Activation Likelihood Estimation Meta-Analysis of 561 Functional Neuroimaging Studies. *Human Brain Mapping, 46*. https://doi.org/10.1002/hbm.70415

Fedorenko, E., Blank, I., Siegelman, M., & Mineroff, Z. (2020). Lack of selectivity for syntax relative to word meanings throughout the language network. *Cognition, 203*, 104348 - 104348. https://doi.org/10.1016/j.cognition.2020.104348

Ferstl, E. C., Neumann, J., Bogler, C., & Von Cramon, D. (2008). The extended language network: A meta-analysis of neuroimaging studies on text comprehension. *Human Brain Mapping, 29*. https://doi.org/10.1002/hbm.20422

Friederici, A. (2011). The brain basis of language processing: from structure to function.. *Physiological reviews, 91 4*, 1357-92. https://doi.org/10.1152/physrev.00006.2011

Gurunandan, K., Arnaez-Telleria, J., Carreiras, M., & Paz-Alonso, P. (2020). Converging Evidence for Differential Specialization and Plasticity of Language Systems. *The Journal of Neuroscience, 40*, 9715 - 9724. https://doi.org/10.1523/jneurosci.0851-20.2020

Hervé, P., Zago, L., Petit, L., Mazoyer, B., & Tzourio-Mazoyer, N. (2013). Revisiting human hemispheric specialization with neuroimaging.. *Trends in cognitive sciences, 17 2*, 69-80. https://doi.org/10.1016/j.tics.2012.12.004

Kreitewolf, J., Friederici, A., & Kriegstein, K. (2014). Hemispheric lateralization of linguistic prosody recognition in comparison to speech and speaker recognition. *NeuroImage, 102 Pt 2*, 332-44. https://doi.org/10.1016/j.neuroimage.2014.07.038

Labache, L., Mazoyer, B., Joliot, M., Crivello, F., Hesling, I., & Tzourio-Mazoyer, N. (2020). Typical and atypical language brain organization based on intrinsic connectivity and multitask functional asymmetries. *eLife, 9*. https://doi.org/10.1101/2020.05.07.083006

Martin, K. C., Seydell-Greenwald, A., Turkeltaub, P. E., Chambers, C. E., Gaillard, W. D., & Newport, E. L. (2024). Functional partitioning of sentence processing and emotional prosody in the right perisylvian cortex after perinatal stroke. *Scientific Reports, 14*. https://doi.org/10.1038/s41598-024-79302-5

McGettigan, C., Evans, S., Rosen, S., Agnew, Z., Shah, P., & Scott, S. (2011). An application of univariate and multivariate approaches in fMRI to quantifying the hemispheric lateralization of acoustic and linguistic processes. *Journal of cognitive neuroscience, 24*, 636 - 652. https://doi.org/10.1162/jocn_a_00161

Meyer, M., Alter, K., Friederici, A., Lohmann, G., & Von Cramon, D. (2002). FMRI reveals brain regions mediating slow prosodic modulations in spoken sentences. *Human Brain Mapping, 17*. https://doi.org/10.1002/hbm.10042

Meykadeh, S., Golfam, A., Batouli, S. A. H., & Sommer, W. (2021). Overlapping but Language-Specific Mechanisms in Morphosyntactic Processing in Highly Competent L2 Acquired at School Entry: fMRI Evidence From an Alternating Language Switching Task. *Frontiers in Human Neuroscience, 15*. https://doi.org/10.3389/fnhum.2021.728549

Newport, E., Seydell-Greenwald, A., Landau, B., Turkeltaub, P., Chambers, C. E., Martin, K. C., Rennert, R. J., Giannetti, M. L., Dromerick, A., Ichord, R., Carpenter, J., Berl, M., & Gaillard, W. (2022). Language and developmental plasticity after perinatal stroke. *Proceedings of the National Academy of Sciences of the United States of America, 119*. https://doi.org/10.1073/pnas.2207293119

Nuñez, S. C., Dapretto, M., Katzir, T., Katzir, T., Starr, A., Bramen, J. E., Kan, E., Bookheimer, S., & Sowell, E. (2011). fMRI of syntactic processing in typically developing children: structural correlates in the inferior frontal gyrus. *Developmental cognitive neuroscience, 1*, 313 - 323. https://doi.org/10.1016/j.dcn.2011.02.004

Olulade, O., Seydell-Greenwald, A., Chambers, C. E., Turkeltaub, P., Dromerick, A., Berl, M., Gaillard, W., & Newport, E. (2020). The neural basis of language development: Changes in lateralization over age. *Proceedings of the National Academy of Sciences of the United States of America, 117*, 23477 - 23483. https://doi.org/10.1073/pnas.1905590117

Pasquinelli, R., Tessier, A., Karas, Z., Hu, X., & Kovelman, I. (2023). The Development of Left Hemisphere Lateralization for Sentence-Level Prosodic Processing.. *Journal of speech, language, and hearing research : JSLHR*, 1-13. https://doi.org/10.1044/2022_jslhr-22-00103

Rajimehr, R., Firoozi, A., Rafipoor, H., Abbasi, N., & Duncan, J. (2021). Complementary hemispheric lateralization of language and social processing in the human brain.. *Cell reports, 41 6*, 111617. https://doi.org/10.21203/rs.3.rs-808005/v1

Seydell-Greenwald, A., Chambers, C. E., Ferrara, K., & Newport, E. (2019). What you say versus how you say it: Comparing sentence comprehension and emotional prosody processing using fMRI. *NeuroImage*, 116509. https://doi.org/10.1016/j.neuroimage.2019.116509

Tsiwah, F., Popov, S., & Bastiaanse, R. (2023). Perception of grammatical tone in Akan patients with left and right hemisphere brain damage. *Clinical Linguistics & Phonetics, 38*, 399 - 417. https://doi.org/10.1080/02699206.2023.2216347

Turker, S., Kuhnke, P., Eickhoff, S., Caspers, S., & Hartwigsen, G. (2023). Cortical, subcortical, and cerebellar contributions to language processing: A meta-analytic review of 403 neuroimaging experiments.. *Psychological bulletin*. https://doi.org/10.1037/bul0000403

Tyler, L., Wright, P., Randall, B., Marslen-Wilson, W., & Stamatakis, E. (2010). Reorganization of syntactic processing following left-hemisphere brain damage: does right-hemisphere activity preserve function?. *Brain, 133*, 3396 - 3408. https://doi.org/10.1093/brain/awq262

Ukaegbe, O. C., Holt, B. E., Keator, L. M., Brownell, H., Blake, M., & Lundgren, K. (2022). Aprosodia Following Focal Brain Damage: What's Right and What's Left?. *American journal of speech-language pathology*, 1-16. https://doi.org/10.1044/2022_ajslp-21-00302

Van Der Burght, C. L., Numssen, O., Schlaak, B., Goucha, T., & Hartwigsen, G. (2022). Differential contributions of inferior frontal gyrus subregions to sentence processing guided by intonation. *Human Brain Mapping, 44*, 585 - 598. https://doi.org/10.1002/hbm.26086

Vigneau, M., Beaucousin, V., Hervé, P., Duffau, H., Crivello, F., Houdé, O., Mazoyer, B., Mazoyer, B., & Tzourio-Mazoyer, N. (2006). Meta-analyzing left hemisphere language areas: Phonology, semantics, and sentence processing. *NeuroImage, 30 4*, 1414-32. https://doi.org/10.1016/j.neuroimage.2005.11.002

Walenski, M., Europa, E., Caplan, D., & Thompson, C. (2019). Neural networks for sentence comprehension and production: an ALE-based meta-analysis of neuroimaging studies. *Human brain mapping, 40*, 2275 - 2304. https://doi.org/10.1002/hbm.24523

Walker, J. P., Daigle, T., & Buzzard, M. (2002). Hemispheric specialisation in processing prosodic structures: Revisited. *Aphasiology, 16*, 1155 - 1172. https://doi.org/10.1080/02687030244000392

Wildgruber, D., Riecker, A., Hertrich, I., Erb, M., Grodd, W., Ethofer, T., & Ackermann, H. (2005). Identification of emotional intonation evaluated by fMRI. *NeuroImage, 24 4*, 1233-41. https://doi.org/10.1016/j.neuroimage.2004.10.034

Wilson, S. M., & Schneck, S. M. (2020). Neuroplasticity in post-stroke aphasia: A systematic review and meta-analysis of functional imaging studies of reorganization of language processing. *Neurobiology of language (Cambridge, Mass.), 2*, 22 - 82. https://doi.org/10.1162/nol_a_00025

Xu, J., Kemeny, S., Park, G. H., Frattali, C., & Braun, A. (2005). Language in context: emergent features of word, sentence, and narrative comprehension. *NeuroImage, 25 3*, 1002-15. https://doi.org/10.1016/j.neuroimage.2004.12.013