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Neural Connectivity in Childhood," investigates how conversational turns - back and forth interactions between children and their adult caregivers - relate to white matter connectivity between Broca's area and Wernicke's area, two regions of the brain critical for language. [First paper published linking conversational turns with ...](#) The hypothesis that language is acquired during a critical period was first proposed by neurologists Wilder Penfield and Lamar Roberts in 1959 and popularized by linguist Eric Lenneberg in 1967. Lenneberg argued for the hypothesis based on evidence that children who experience brain injury early in life develop far better language skills than adults with similar injuries. [Critical period - Wikipedia](#) They confirmed what scientists already knew: the left hemisphere of the brain was the center of the language learning process. However, before processing grammar and vocabulary, the learners must first identify the phonological elements of the language. During this sound processing, the right side of the brain plays a critical

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