

Interaction Among Brain Areas During Memory Retrieval

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This summer I worked to further research indicating the direction information flows during memory retrieval. The brain is constantly active, and to communicate between different regions neurons fire together and create oscillations at different frequencies, and our study focuses on theta oscillations (8 Hz) because they have been found to be involved in memory.

The data used in this project originates from a study conducted by Professor Erika Nyhus, using electroencephalogram (EEG) recordings to measure scalp voltage during a memory task. In the task, participants practiced a list of words and then were tested by being presented with a mixture of the practiced words along with new words. Participants were asked to respond if the presented word was one