



# LINGUISTIC VS NONLINGUISTIC LEARNING

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# PROJECT SUMMARY

This study compares structural MRI changes for English monolingual adults learning audio-visual paired associations vs linguistic L2 paired association (using previous PW data). The study design is still being developed, but will likely include 90 pairs of Attneave-like shapes and amusical tones.

Participants will come in for a cognitive session where they will be given LNS, Flanker, and PPVT tasks, then they will complete 7 learning and testing sessions. A norming study will be conducted first to ensure that the difficulty level will be comparable to the PW data.

Training will take place over 2-3 weeks, where MRI session 1 will be taken after 1 cognitive testing session and 1 training/testing session, while MRI session 2 will be taken immediately after the 7th training session. Structural MRI data and rs-fMRI data will be collected.

## Completed

Secured funding

## In Progress

Study design [end Aug]

## Not yet started

Norming study [end Oct]

Behavioral & MRI data collection [end Nov]

Data analyses [end Jan]

Manuscript write-up [end May]

Present data for dissertation [Spring 2018]