



BRAIN3M

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PROJECT SUMMARY

The Brain3M study compares behavioral performance differences between English middle-school aged children learning about neuroanatomy via classroom instruction vs [Brain3M](#). There are 2 main learning topics we emphasize: learning about the lobes of the brain (where they are anatomically and main functions associated with the lobes) and learning about the limbic system (which structures comprise of the limbic system, where they are located in the brain, and what the main function of the structures are within this limbic system).

We received funding from PSU's [SSRI](#) to collect pilot data. Using these funds, we purchased a 3D printer and we have gone to YSCP charter school and participated in Science-U camps in order to collect these pilot data. We are working on submitting further grants (IES and NSF) in order to collect more behavioral data and to collect fMRI, sMRI, and perhaps other brain data.

Completed

SSRI grant

Website

Classroom training sessions

Data analyses (from YSCP and Science U)

In progress

Revising IES grant (Jen) [Aug 17]

Not yet started

NSF-ECR grant proposal

More data collection

Data analyses

Write-up

PROGRESS SUMMARY

PROGRESS DETAILS

- Wrote SSRI grant, which was funded
- Website
 - Jen & Lauren provided all neuroscience content + layout and functional descriptions
 - Fan Zhang created the website
 - Purchased TurboSquid 3D brain model
- Classroom training sessions
 - Lauren and Jen created all neuroscience content
 - Collected the behavioral data at YSCP charter school
 - Jen & RAs collected behavioral data at Science U
- Conducted analyses in SPSS for both of data sets (YSCP & Science U)
- Tyler Snider & Jen made poster for Psi Chi
 - He received 4th place!