



# INDIVIDUAL DIFFERENCE IN READING VIA FUNCTIONAL CONNECTIVITY

Anya Yu (thesis)

# SUMMARY

This aspect of the Reading Brain project looks at...

- Which factors interact to modulate reading comprehension
- What neural signatures of successful vs unsuccessful comprehension look like
  - Possible differences between adult and child signatures
- How individual differences in executive function could modulate these signatures

The analysis is based on [resting state functional connectivity \(RSFC\)](#), which is able to circumvent the challenge of having comparable stimuli difficulty across ages groups, and [dynamic functional network connectivity \(dFNC\)](#), the dynamic switching between brain states throughout the time course of scanning. Only data from phase I and II are considered (native English-speaking adults and children).

## Completed

Adult data  
collection

Adult data  
preprocessing

Identify key  
regions

## In Progress

Child data  
collection  
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Seed-based  
analyses

## Not yet started

Child data  
preprocessing

dFNC  
analyses