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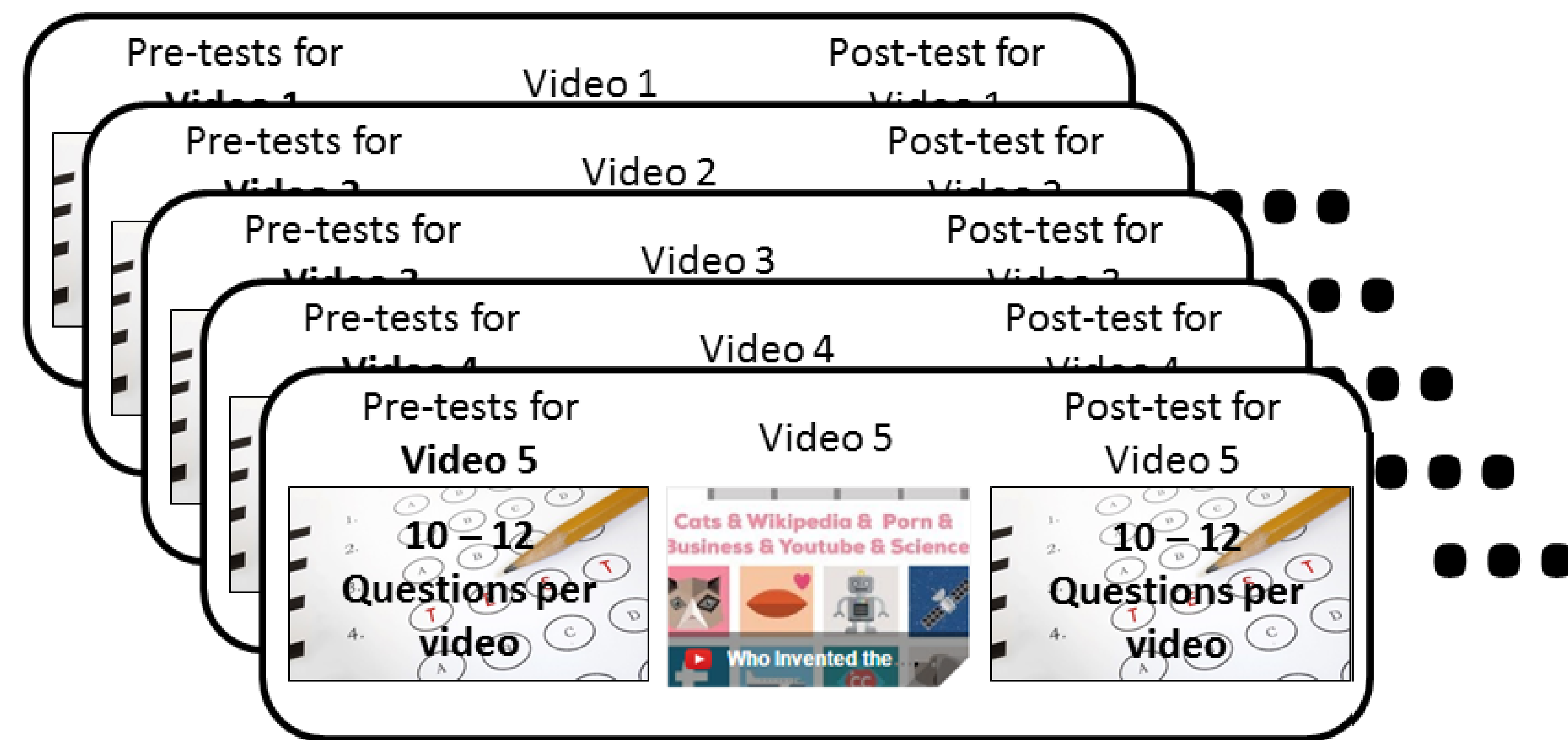
## What is *educational engagement*?

- Behavioral engagement
- How to measure this online?
- Cognitive engagement
- Is there a *neural measure*?



## Two Experiments

2016

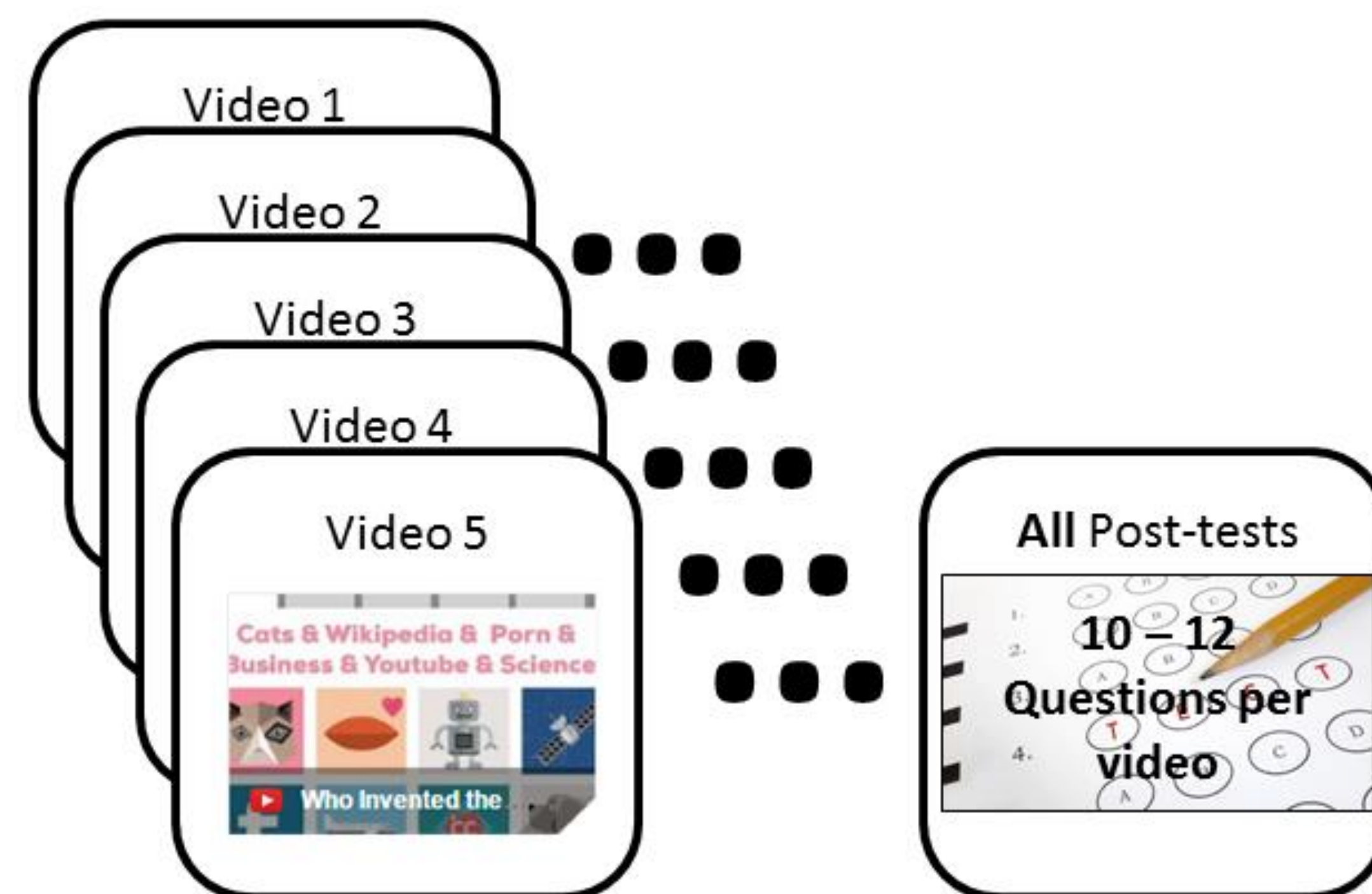


### Distracted presentation



- Distracted presentation = counting backwards from 1,000 in decrements of 7: 1,000, 993, 986, ...

2017



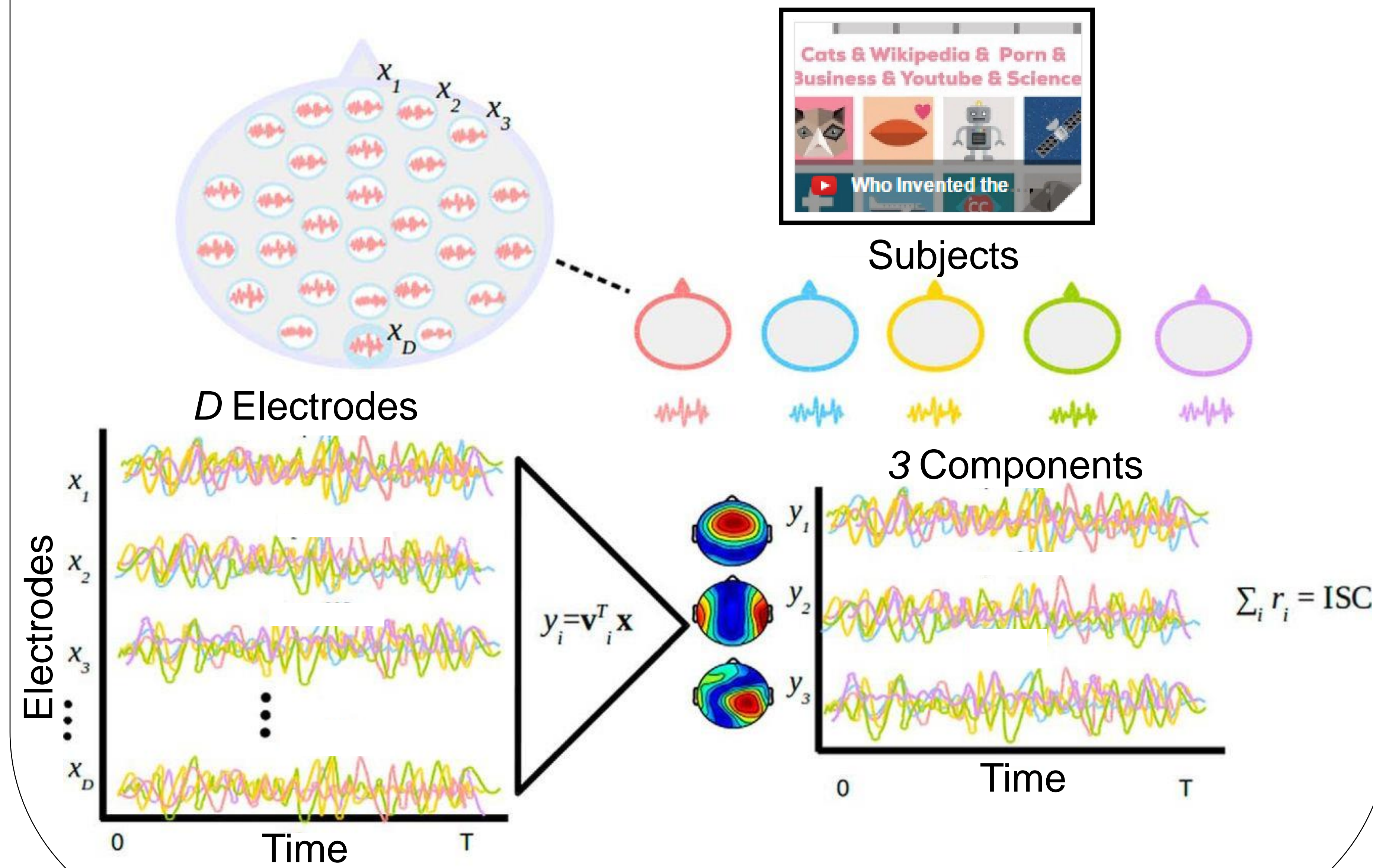
### Distracted presentation



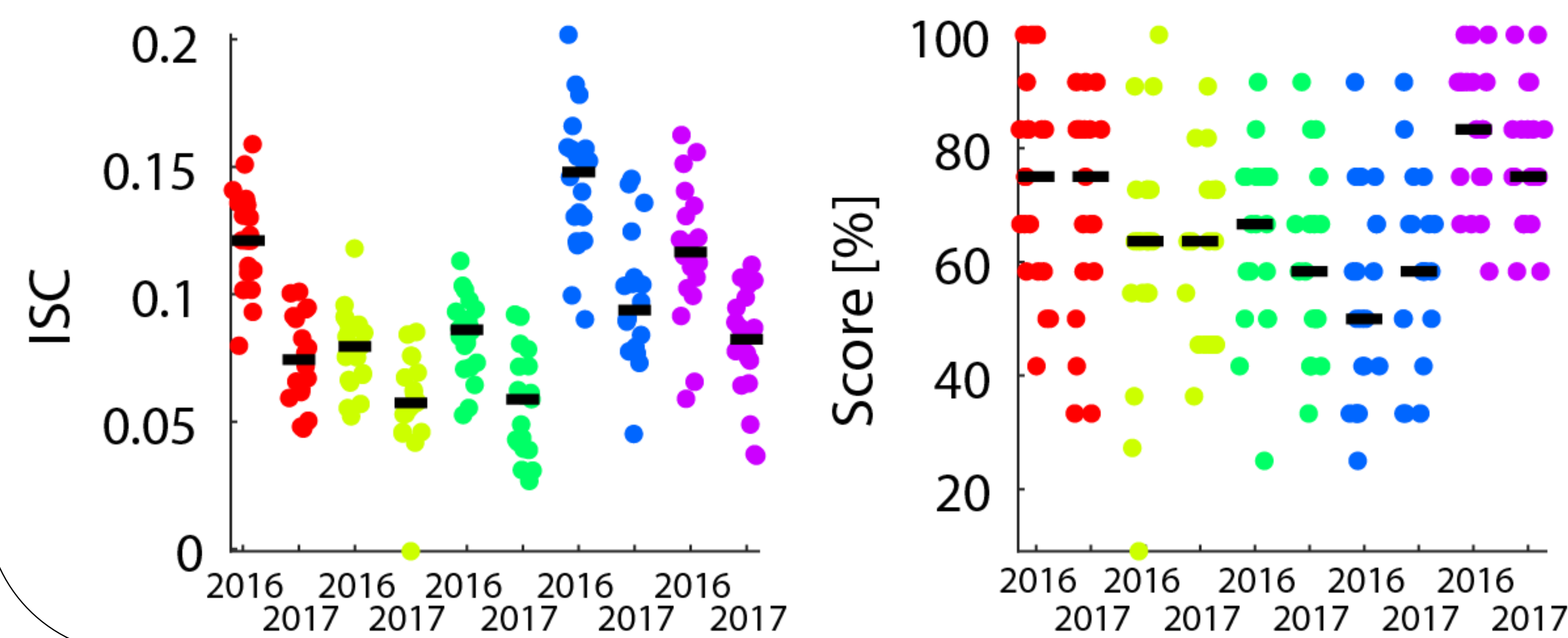
- Eye movements recorded using chinrest

## Can Inter-Subject Correlation (ISC) measure *educational engagement*?

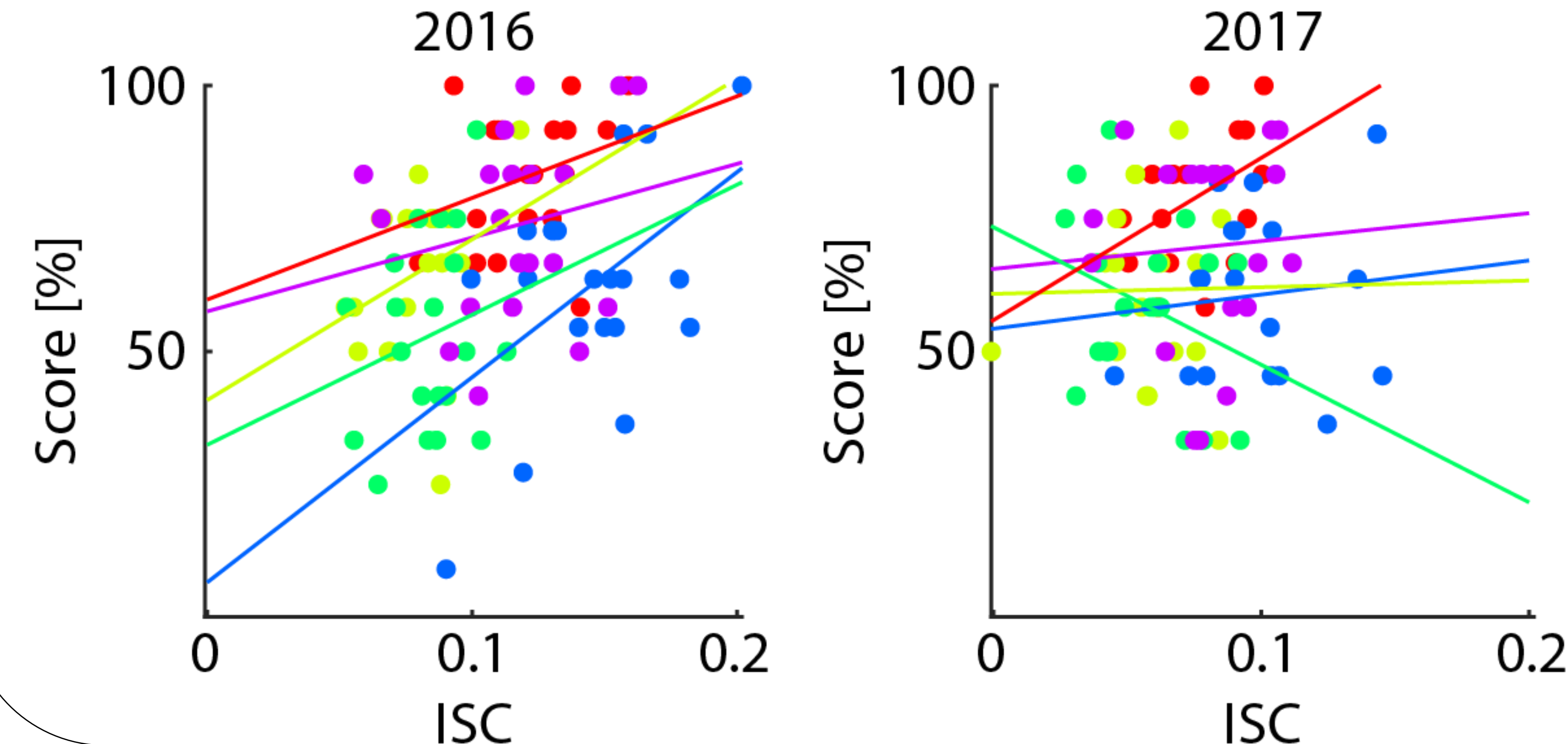
- Implicated in: Memory, Attention, and Engagement



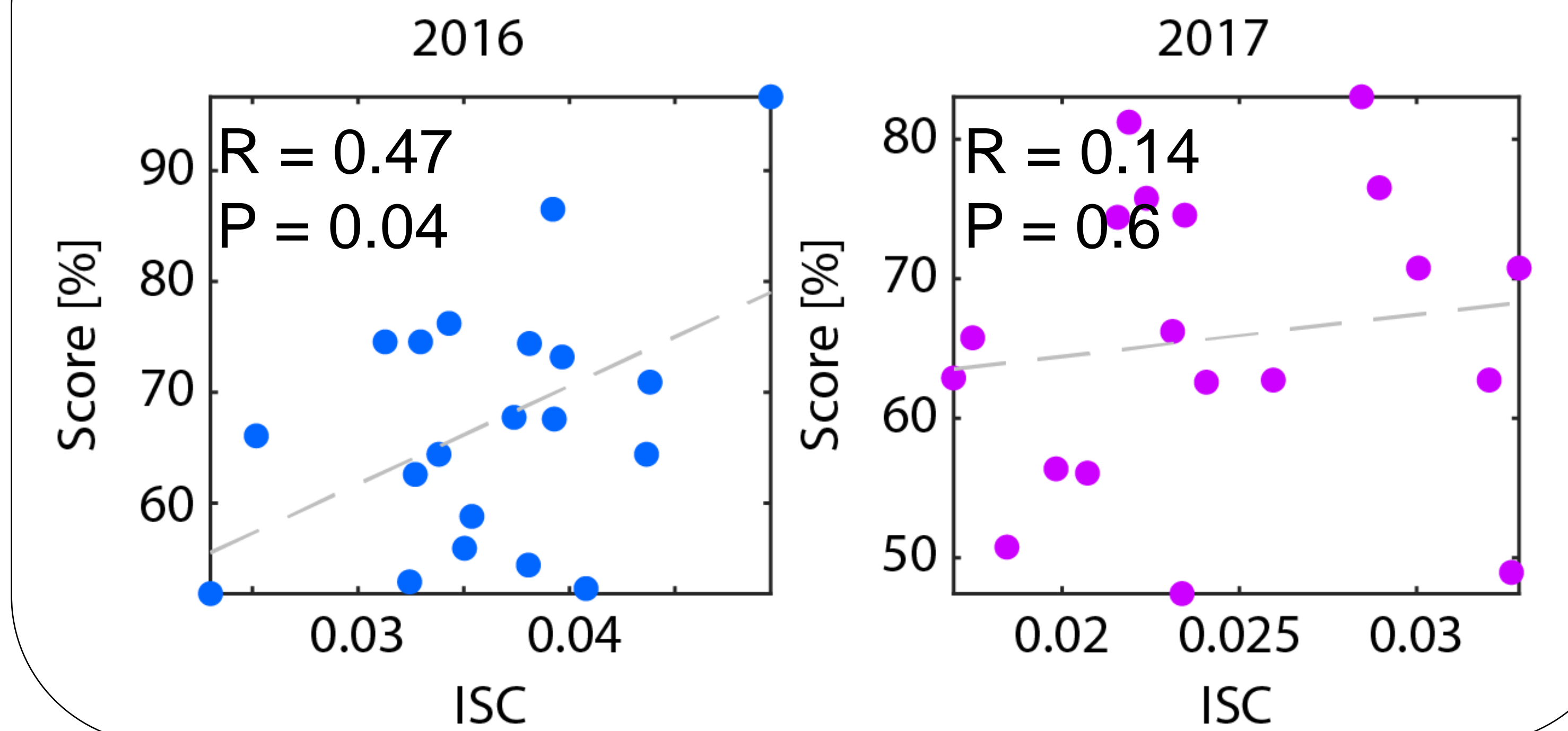
## ISC *drops* between experiments, while test scores remain *consistent*



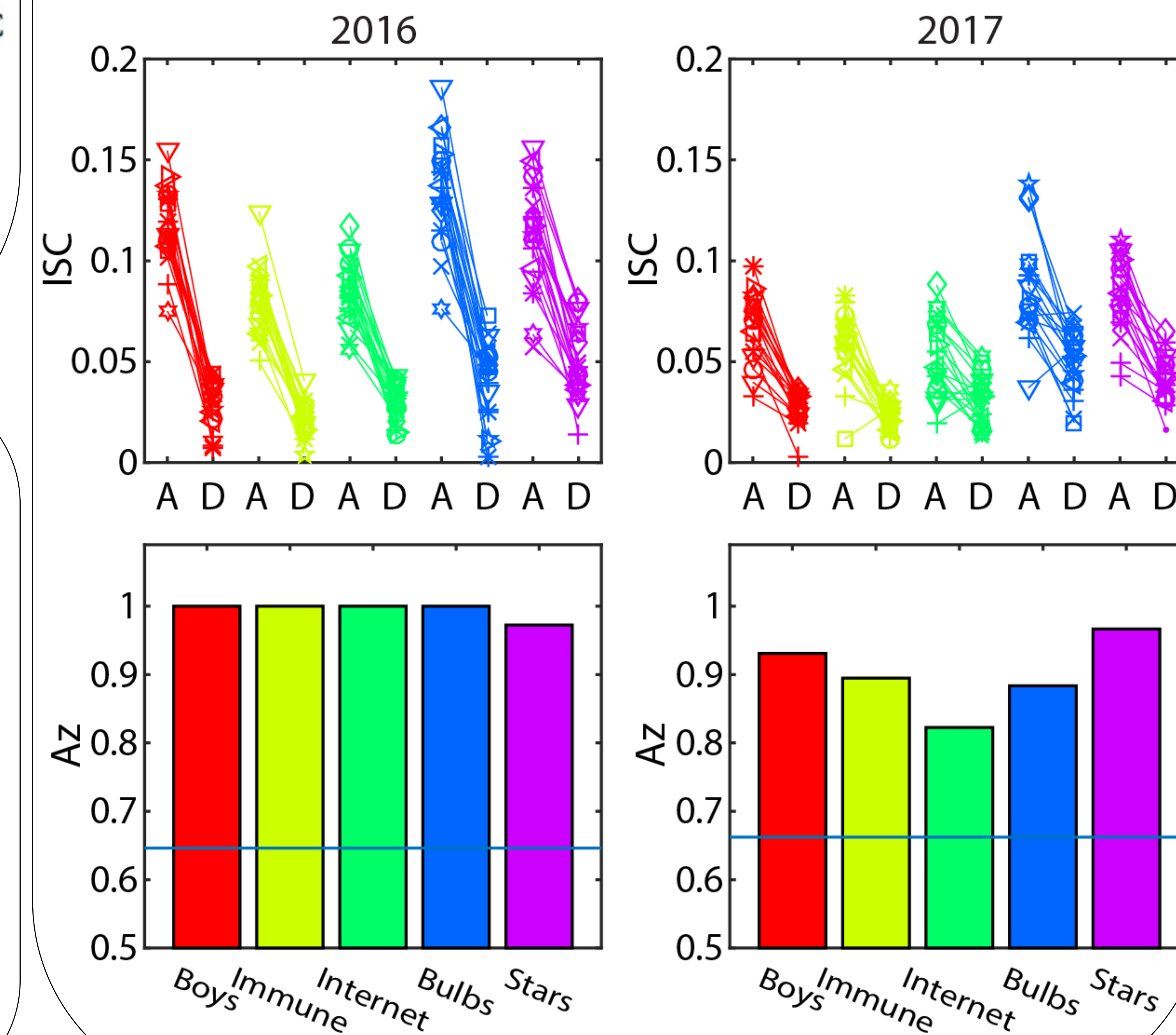
## Correlation between ISC and test score



## Correlation between ISC and test score



## Attentional manipulation is weaker in 2017 than in 2016



## References

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