

Do short explanation videos available online help in-class learning?

Yes, but it depends ...



The City College of New York

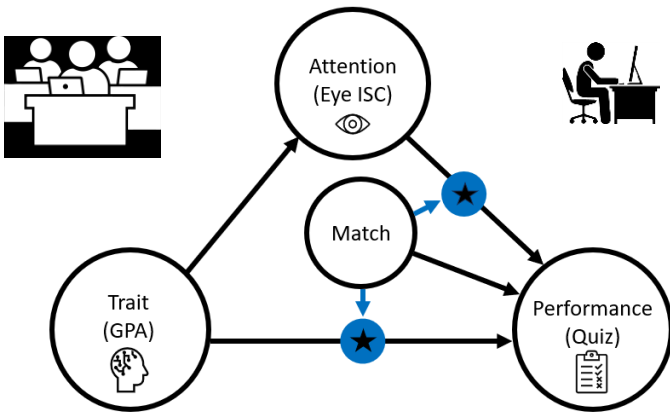


2201835: Research on the role of attention in improving video-based learning

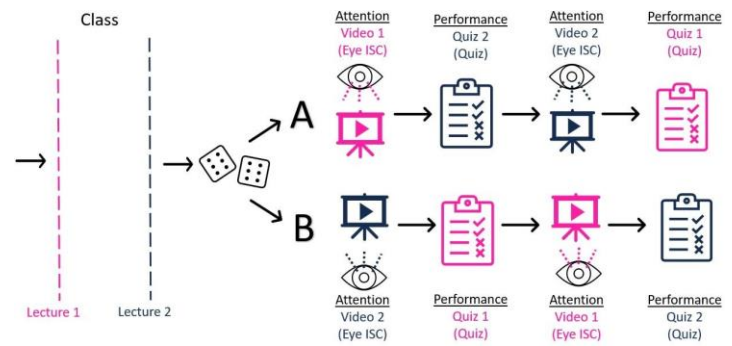
Does GPA matter? What about attention?

In class (N=139)

Online (N=215)

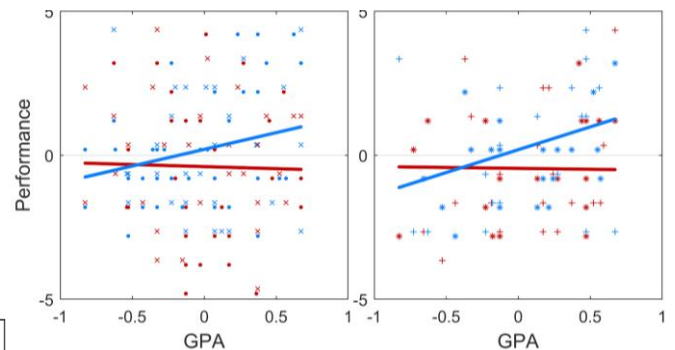
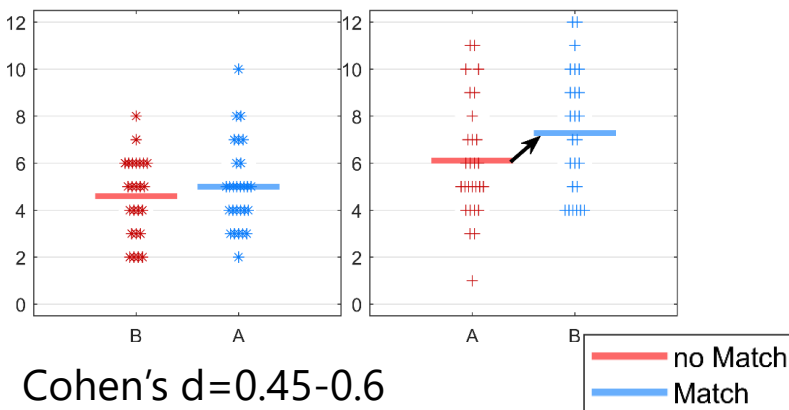


Randomized controlled trial



Some videos had medium to large effects, others had none.

High GPA students benefited the most, despite similar attention.



Methods

Video

Online

Eye tracking

Challenges

- 8-10 min physics videos
- matching/non-matching quiz
- Webcam eye tracking

elicit-experiment.com

- Selecting video material is hard.
- Making quizzes is a lot of work.
- Did we measure attention correctly?

Melanie Adler, Jens Madsen, James Hedberg, Richard Steinberg, Lucas C Parra



parra@ccny.cuny.edu

parralab.org

