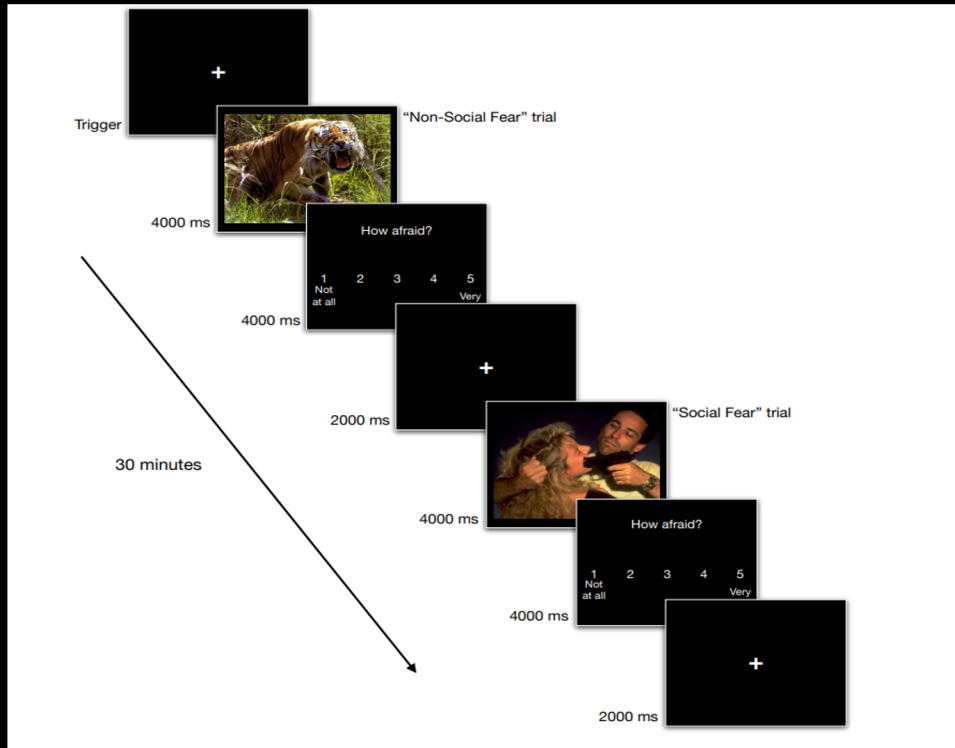


“Amygdala activation during negative emotional experiences”

Oscar Lasserra, Biology and Hispanic Literature and Culture

Members of the Carolina Affective Science Laboratory (CASL)

- Kristen Lindquist, Ph.D., director and principal investigator of CASL and Faculty advisor



What is your research question?

- If specific appraisals are associated with threatening situation, and threat is an emotion, could these appraisals be associated with emotions such as fear and sadness? We hardly know anything about the mechanisms in the brain that deals when an emotional experience. We know that the amygdala activates when an emotional experience, but what is making the amygdala activate in the first place? If emotions are partly a result of people's meaning-making processes (appraisals), then how might culture (Chinese and American) affect brain activity associated with emotion?

Why does your research question matter?

- It helps to analyze/predict amygdala activation associated with emotion experience and how this would be better explained by considering psychological features (appraisals) of the situation.

What are your results?

- High activation of amygdala by ambiguity, immediacy, and distance appraisals
- Regardless of culture the outcome was the same

- Why are your results important to your scholarly or research community?

Past research has shown how specific appraisals have been associated with threat. Moreover, there has been studies that show how specifically the amygdala is associated with various emotional experiences. However, there isn't enough evidence what appraisals causes the amygdala activation. Moreover, much of emotion science is based on Western participants and the neuroscience of emotion is almost exclusively based on White Westerners

Why are your results important to a general audience?

- We will be able to help individuals with psychopathologies such as social anxiety. Specifically, it presents a future used for pharmaceutical research to find solutions to psychopathologies.