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Introduction

Of the Big Five personality traits (openness to experience, extraversion, conscientiousness, agreeableness, and neuroticism), the trait most connected with deception detection is openness to experience. Openness to experience is a personality trait that is related to new ideas and experiences (Elaad & Reizer 2015). Openness in a person can lead them to try new things, be more spontaneous, and be more cognizant of their inner-feelings.

Someone with a higher level of openness to experience may exhibit higher degrees of curiosity, creativeness, and value independence. Psychosocial adversity can be any life-altering event that culminated in immense stress, happens frequently (or was frequent in the past), and had adverse consequences on health. Harsher environments when growing up has a lasting effect on one's cognitive abilities.

It is often thought that rougher development conditions exclusively impair a person's cognitive ability. However, the mind of a person that grew up in a harsh environment or under rough conditions may develop specialized cognitive skills that differ from the conventional abilities that are normally tested using cognition (Frankenhuis et. Al, 2018). Harsh parenting is an example of psychosocial adversity that can impact a person's cognitive ability. It has been found that children who grow up in abusive homes may be better at pinpointing threats, and assessing the situation (Frankenhuis, 2016).

The present study investigated the correlation between psychosocial adversity and deception detection. We also investigated the correlation between openness to experience and deception detection.

Method

Participants (N = 62)

All participants were undergraduate students taking psychology courses that required outside study credits. Each participant consented to take part in the study.

Materials

- Openness to Experience Survey (taken from the Big Five Inventory)
- Adverse Childhood Experience (ACE) Questionnaire
- 4 Partial decks of cards
 - Random card selection
 - 30 cards per deck

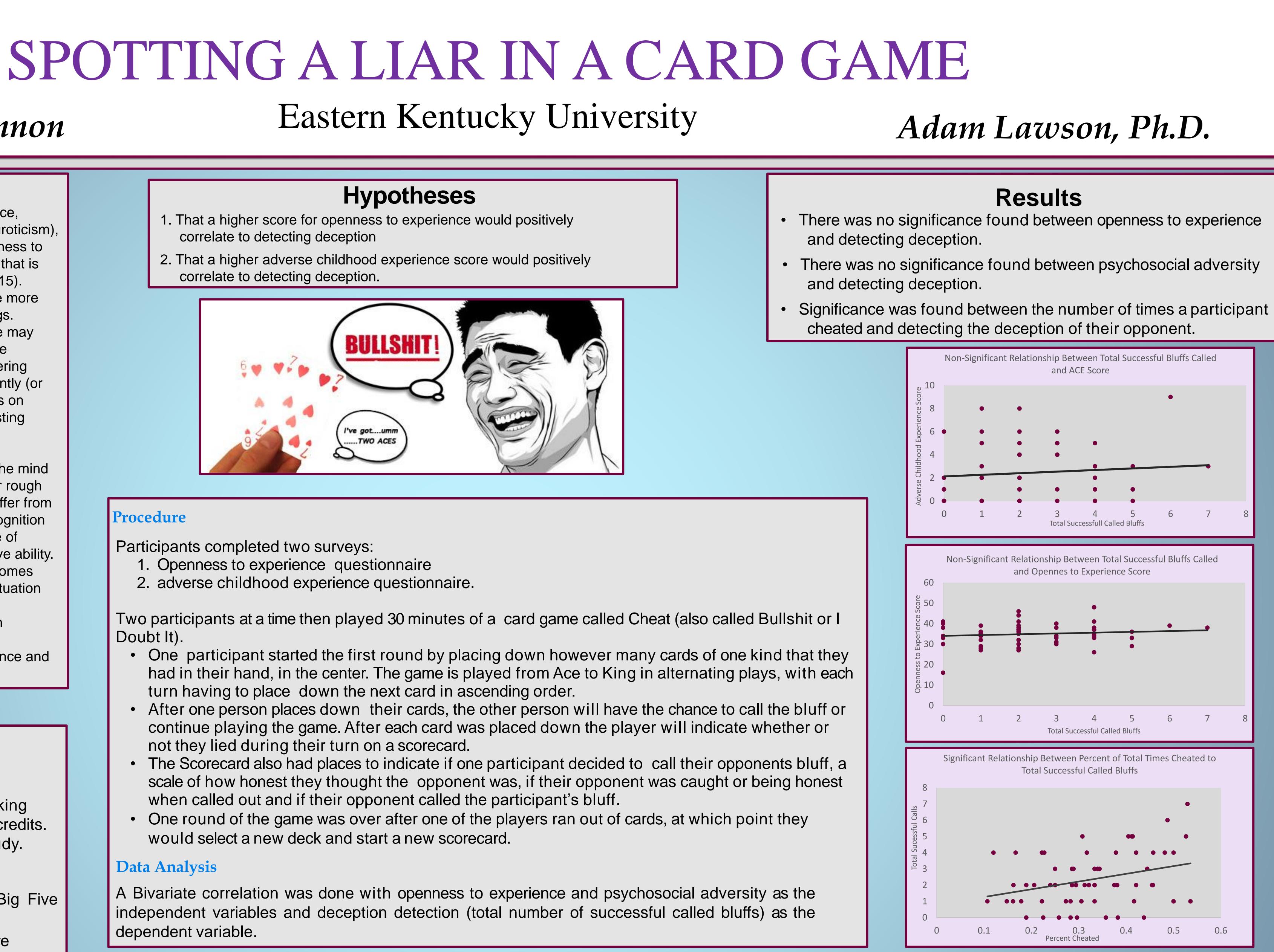
References

Elaad, E., & Reizer, A. (2015). Personality correlates of the self-assessed abilities to tell and detect lies, tell truths, and believe others. Journal of Individual Differences, 36(3), 163–169.

Frankenhuis, W. E., Panchanathan, K., & Nettle, D. (2016). Cognition in harsh and unpredictable environments. Current Opinion in Psychology, 7, 76–80. Frankenhuis, W. E., Roelofs, M. F.A., & de Vries, S.A. (2018). Does exposure to psychosocial adversity enhance deception detection ability? Evolutionary Behavioral Sciences, 12(3), 218-229.

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- correlate to detecting deception
- correlate to detecting deception.



Procedure

Participants completed two surveys:

- 1. Openness to experience questionnaire
- 2. adverse childhood experience questionnaire.

Doubt It).

- not they lied during their turn on a scorecard.
- would select a new deck and start a new scorecard.

Data Analysis

dependent variable.

The results showed two non-significant findings between both openness to experience (see middle figure) and psychosocial adversity (see top figure) and the total number of successful bluffs called. In addition to the hypothesis, there was a significant finding between the number of times a participant cheated and the number of times that participant correctly called an opponent's bluff (see lower figure). Future research should further examine emotions on cheating and deception detection, to see if people's standing on cheating relates significantly to how well they are able to spot another deceiver.

Some limitations of this study should be noted. One clear limitation was the participants understanding of the game. All participants were given the same instructions and the same opportunity to ask questions before beginning the study. However, the data indicates that some participants, may not have fully understood the game play. A second limitation is that when filling out the scorecard, there was no way to ensure that participants correctly and completely filled out the information. This did have a small effect on data collection and analysis. It should be noted that all numbers in the collected data used for analysis were taken straight from the scorecard regardless of how the information was input. Conclusion

In conclusion, this study of deception detection offered a different view to the common question: what makes one person better at detecting deception than another? This study looked at individual differences that may have aided in detection ability. It also used a game format rather than a scenario to provide a new angle to the study.

Discussion