

# ASU<sup>®</sup> ASU at Lake Havasu

## Arizona State University

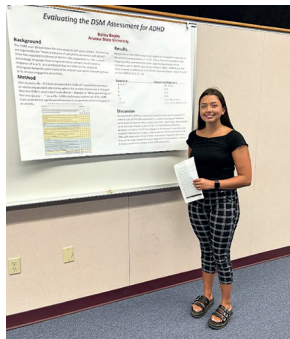
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### Senior Capstones - Spring 2023

Every year just before final exam week, ASU at Lake Havasu seniors have the opportunity to present their capstone projects. A capstone is a rite of passage at ASU at Lake Havasu. It is a year-long project that students work on with a faculty advisor as a culmination of their years of rigorous academic study and as a way to prepare for what comes next after they complete their bachelor's degrees.

#### **Bailey Bagby, Psychology - Improving the DSM ADHD Assessment**

The DSM uses 18 questions for individuals to self-assess ADHD. The first six are reportedly the "most predictive of symptoms consistent with ADHD." For this experiment, 97 ASU students first completed the DSM self-assessment and then an identically worded alternative where the answer choices were changed from the DSM 5-point Likert scale (Never - Always) to "What percentage of the time do you..." on a 0% - 100% scale to see if the DSM scale could detect significant differences in proportions of time engaged in an activity. All corresponding question responses between the two assessments were significantly correlated, with a mean correlation of 0.79. However, multiple DSM questions may be poor diagnostically since a large proportion of the participants (30 - 70%) selected responses of 4 or 5.



Bailey Bagby

#### **April Banegas, Psychology - Sex of Voice Used for Audio Instructions Has No Effect on Memory**

Research has shown that male voices are preferred in

music artists (Sisario, 2018) and teachers (Chinery, n.d.). However, when it comes to voices of virtual assistants like Siri, Alexa, and Cortana, a woman's voice is preferred (Rossen, 2020). This study randomly assigned participants (N = 209) to listen to a five-minute audio recording of a 60 point pre-flight checklist for a Cessna 152 aircraft with either a male or female voice. Participants were given an 18-question multiple-choice test based on the checklist items. There was no significant difference in test score between the male audio (M = 7.77) and the female (M = 6.95),  $t(207) = 1.35, p > .05$ . There may be various reasons for preferring for male or female audio voices but improving memory of instructions may not be a good reason.



April Banegas

#### **Adam Berezoski, Psychology - Effects of Escalation or De-Escalation in Law Enforcement Interactions**

Interactions with law enforcement officers (LEO) often produce negative emotions and perceptions. This study investigated what particular language or behaviors contribute to escalation or de-escalation in various LEO interactions. ASU students (234) were randomly assigned to read 10 scenarios (e.g., traffic stops, frisking, detention) with interactions between



Adam Berezoski

LEOs and citizens employing either escalatory or de-escalatory tactics. Participants ranked their personal feelings (anger, fear, anxiety, intimidation) and perceptions of the LEO (courtesy, competence, trustworthiness, fairness) for each scenario (Scale 1-7). There were significantly more negative feelings (escalation M = 4.8; de-escalation M = 4.08) and less positive perception of LEOs (escalation M = 2.4; de-escalation M = 4.0) when LEOs used more aggressive language and behavior,  $F(1, 198) = 23.73, p < .001$ .

#### **Raul Rodriguez, Kinesiology - Proper Coaching Methods for Instilling Long-Term Fitness Habits in Youth**

Coaches are always in high demand to have enough teams in recreational team sports. This leads to many parents or inexperienced individuals taking the position for the benefit of the children. Often receiving no instruction or advice, they do what they can or base their coaching on their own previous coaching experiences. It is important to realize the important influence a coach can have on an athlete's development and future. Team sports provide interactions and activities that enhance physical and mental development, and it is the coach's responsibility to prioritize proper development and enhance enjoyment of the sport to promote active lifestyles.



Raul Rodriguez