

Gender Differences in Sustained Attention on a Nathematical Task Elizabeth Buell¹, Lindsay Rice², Ph.D., & Eric T. Greenlee², Ph.D. ¹Department of Biology; ²Department of Psychological Sciences, Texas Tech University

Introduction

- Sciences, technology, engineering, and math (STEM) jobs are in demand and in some areas of work sustained attention and performance on complicated science or math-based tasks is critical.
- Previous research has indicated that women can have lower selfefficacy which could potentially affect performance in these areas.
- This study examines whether there are gender differences in performance on a mathematical task.
- Gender and whether individuals are working alone or with other people are important considerations when trying to understand distress during these tasks.

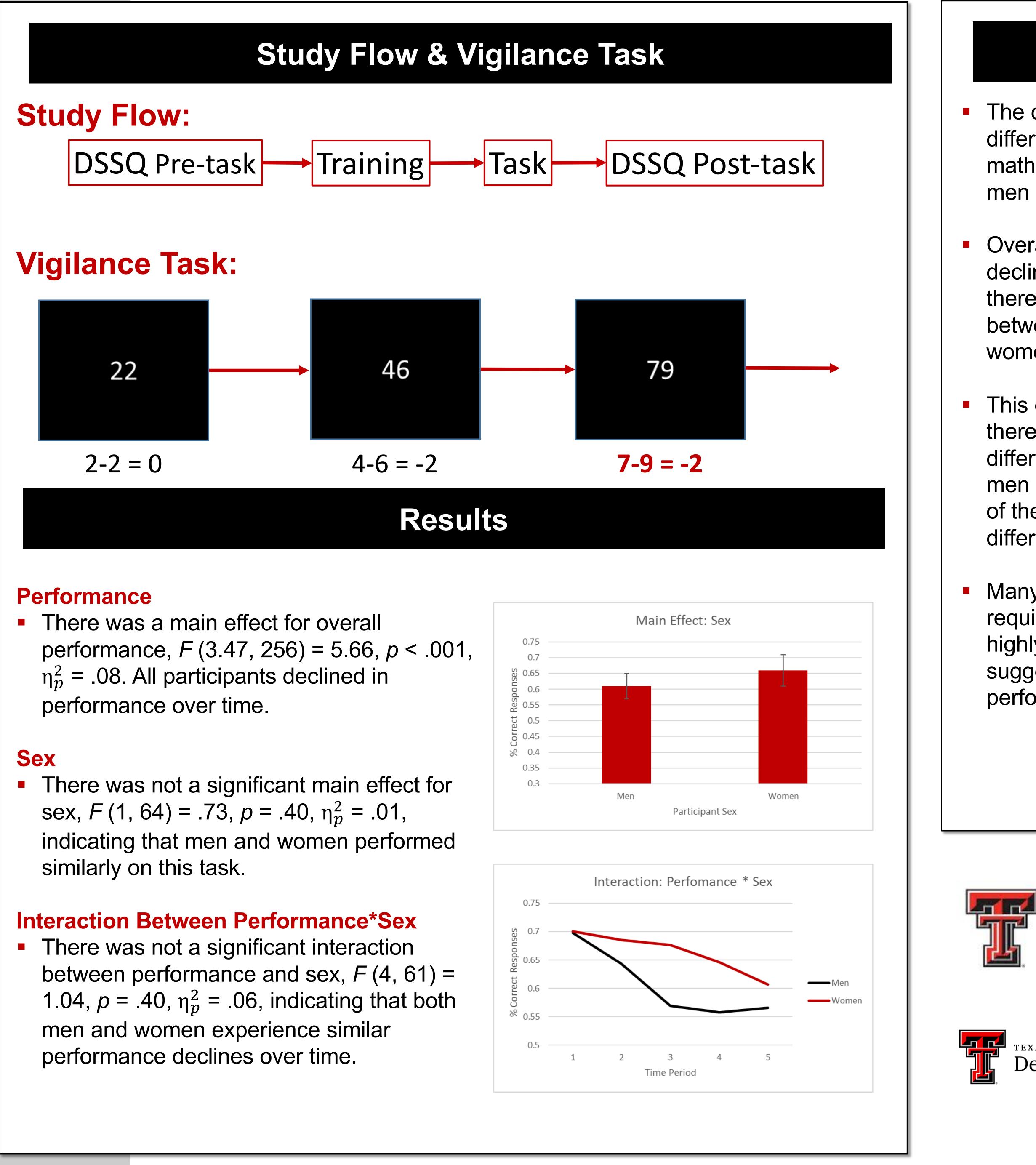
Method

Participants

- 68 undergraduate students (46 women) completed the study.
- Dependent variable: Performance on a mathematically based vigilance task.

Hypotheses:

We hypothesized that there would be no gender differences in performance on this task between men and women





Conclusions

The current study examined differences in performance on a mathematical vigilance task between men and women.

Overall, the expected performance decline over time was significant, but there were no significant differences between the performance of men and women.

This data suggests that even though there may be perceptions of a difference in performance between men and women based on the nature of the task, the data indicate these differences are not present.

Many fields, including STEM fields require sustained performance on highly technical tasks and our data suggest that men and women could perform equally well in these fields.

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