

*Article Review #1: The Role that Personality Traits have in Cybersecurity Behavior*

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Social Sciences play a role in Cybersecurity in ways that may not be expected. Social Sciences, in this context, is used to “examine how the Big Five personality traits affect employees' cybersecurity compliance attitudes” (Ghaleb, 2025, Abstract section). His research focuses on quantitative study to prove that hypothesis.

## Research Method

The study uses many different hypotheses. Those hypotheses focus on the influence of the personality traits on cybersecurity behavior, how big the influence is, the impact the influence has on the relationship between the behavior traits and cybersecurity, and how perceived risk/security impacts the relationship between the Big Five personality traits, cybersecurity compliance, and cybersecurity behavior. The variables that were used to conduct this research are the Big Five personality traits (IV) and cybersecurity behavior (DV).

The type of research method used was quantitative, described as “the process of collecting and analyzing numerical data” (Bhandari, 2020). The sample size of the research was 259,

comprised of employees in varying programs to supply diversity to the experiment. The data used in the paper was comprised of structural equation models, which were created using STATA software. This software then used the information gathered for the experiment to create models utilizing pathways to display the impact of the Big Five personality traits on the stated hypotheses.

## Research Relation

Many concepts from the PowerPoint presentations during the course were utilized in the research article. It dives deep into the effects of personality, a variable many wouldn't consider, on cybersecurity. It shows the use of different research methods, ones shown in the PowerPoint, as well as the use of diversity in the experiment to not give a bias based on a limited group. This research, while not explicitly stated, most likely has contributions from people in marginalized groups. The diversity used in the programs for the research would imply diversity in the peoples used in the experiment, and their background can impact their personalities, which, in turn, impacts the values in the research.

## Conclusion

Overall, this research paper is one in a series of papers that study the impacts of Social Science in cybersecurity. As previously mentioned, Social Sciences goes hand in hand with cybersecurity and cyber-behavior. With research, there is ample data proving the correlation between the two, and with that information, actions can be made. Papers will be referenced in making different programs to inform people about cyber-behavior, and it can also be referenced in training to ensure adequate cybersecurity policies are being followed, regardless of personality or background. Once awareness is reached and training is done, this research would have laid the

foundation to create a space where others can be more informed about their own cyber-behavior, and potentially lower cyber risks taken by individuals.

#### REFERENCES

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