

**Article Review #1: Role of Personality Traits and Cybersecurity Behavior**

**Jaden Cooper**

**Old Dominion University**

**CYSE201S: Cybersecurity & Social Science**

**Diwakar Yalpi**

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## **Introduction**

The article I chose is called “Role of Personality Traits and Cybersecurity Behavior” by Mohanad Mohammed Sufyan Ghaleb (2025), and the article examines how personality traits influence employee’s compliance with cybersecurity practices. It relates to our social science principles by showing how our own psychology within ourselves goes about the social norms and organizational structures in the world to shape our behavior.

## **Research Question, Hypotheses, IV & DV**

The article’s main study research question is on how the Big Five personality traits affect cybersecurity compliance. Hypotheses suggest traits like Conscientiousness and Openness are positively associated with compliance. The independent variables within the Big Five personality traits are Openness, Conscientiousness, Extraversion, Agreeableness, and Neuroticism. The dependent variables in the Big Five personality traits are cybersecurity compliance attitudes and behaviors.

## **Methods & Data**

The study he used was a quantitative, cross-sectional survey of employees. Each of their personality traits were viewed/measured by the standard Big Five inventory, and the employees self-reported their cybersecurity behaviors. He used hierarchical regression to see if the personality traits added any predictive power more than any other factors. The results showed that Conscientiousness and Openness were very important predictors, even when controlling other variables, implying that these traits really influence how seriously people follow cybersecurity practices.

## **Connections To The Course**

I feel like the article highlights a lot of different concepts from our class and slides. Things like independent versus dependent variables, and the idea that individual choices interact with organizational structures. I also feel like it just shows how our psychological traits can influence own behavior.

### **Marginalized Groups and Contributions**

The study methods don't really highlight marginalized groups but there are effects or consequences from the study. Employees with less support or supplies will have a harder time even if they are strong willed. Personality alone cannot predict compliance, and this could overall cause some disadvantages to groups, so inclusive training and support are important.

### **Conclusion**

Ghaleb's research contributes to cybersecurity by showing that human behavior is very important and should matter as much as policy or technology. Limitations include reliance on self-reports, modest predictive power, and limited diversity in the sample. Overall, it backs up how important it is to consider both psychological and social factors when creating effective cybersecurity practices.

### **References**

Ghaleb, M. M. S. (2025). *Role of personality traits and cybersecurity behavior*. Cybercrime Journal.

<https://cybercrimejournal.com/menuscrypt/index.php/cybercrimejournal/article/view/438>

