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# **Career Paper**

## **Introduction**

Cybersecurity analysts are responsible for protecting an organization's computer systems and networks from breaches and cyber threats (Simmons, n.d.). This career field is very important due to the amount of organizations moving more digitally. So with this happening, more security breaches and cyber attacks are more likely to increase with the growing digital world. Cybersecurity analysts' responsibilities are to monitor computer systems for breaches. With this responsibility, they can help prevent future attacks and help save their organizations from spending hefty amounts of money on the breach. Another responsibility is to investigate security breaches. If unfortunately a computer system falls victim to an attack, they will have to investigate the breach/attack. With this investigation, they will be able to learn from this mistake and improve their procedures and guidelines to help prevent another one. As well as now understanding the cybercriminals behaviors and motives for the breach. They do more stuff like write reports, conduct tests, and install and maintain software (Simmons, n.d.).

## **Relations to Social Sciences**

Cybersecurity analysts are related to social sciences in many ways. Social sciences are the science of people. Social sciences can be put into these three categories, psychology( the science of human behavior), sociology(the science of social group), and economics( the

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science of markets, businesses, and economies) (Bhattacharjee, 2012, pg.1). In “*Social Science: Principles, Methods, and Practices*” by Anol Bhattacharjee, the author highlights the entire research method rather than just gathering real data, which makes it a useful guide for doctorate and graduate students across several areas. It stands itself apart by offering clear, concentrated materials that are intended to go alongside doctoral seminar imposed literature. The book's author's commitment to creating it accessible to everyone demonstrates that she values in reducing barriers to comprehension of science. The author's commitment to offering available localized editions of her essential tools for study is further demonstrated through her goals. Using social sciences within their job and daily duties, cybersecurity analysts will have to use psychology. With psychology, they will have to understand the different behaviors of the cybercriminals to help prevent or reduce the level of future breaches and cyber threats (National Academies of Sciences, Engineering, and Medicine et al., 2019, p.153).

## **Connection to Society**

A cybersecurity analyst's main role is to safeguard and/or protect computer systems, networks, etc. from breaches and cyber threats. Their relations to society is crucial. Cybersecurity analysts are responsible for protecting sensitive data/information. Trust and confidence in cyberspace are essential in the digital age, as online transactions and civic engagement increasingly more widespread. The importance of understanding the views and opinions of individual Internet users with regard to security and privacy has been recognized by the Global Cyber Security Capacity Centre (GCSCC). Their research aims to identify the

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Professor Yalpi

cybersecurity assistance requirements, define the demographic groups who need assistance, and develop a cybersecurity mindset among users. The GCSCC acknowledges that individuals may not be aware of online dangers, but emphasizes the importance of not underestimating individuals and instead pushing for enhanced safety procedures. The challenge is in increasing individuals' knowledge of online dangers without producing a great deal of stress, so that cybersecurity remains an essential component of everyday internet usage. In addition, the study aims to compare with the goal to develop effective cybersecurity innovations and laws that will eventually lead to a more secure and safer Internet, the research additionally seeks to compare views and actions across national boundaries. In the article, they stated that “a cybersecurity mindset consists of values ,attitudes and practices—including habits of individual users, experts, and other actors—in the cybersecurity ecosystem that increase the capacity of users to protect themselves online.” (*Dimension 2: Cybersecurity Culture and Society | Global Cyber Security Capacity Centre*, n.d.). With this information, the aspects show the awareness of risk, priority of security, and practices (*Dimension 2: Cybersecurity Culture and Society | Global Cyber Security Capacity Centre*, n.d.). Using this mindset, it can help organizations and users to understand cybersecurity. Cybersecurity analysts should strive to understand the behaviors of cybercriminals and the victims to help safeguard and prevent the next attack. Using social sciences is the best way to help them understand the public views and beliefs. Also help them understand cybersecurity and cyberattacks. Because it can happen to anyone of use.

## **Conclusion**

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Date:12/03/2023

Professor Yalpi

In conclusion, cybersecurity analysts are crucial to the constantly evolving digital world because they safeguard both individuals and businesses from the increasing dangers related to breaches and cyber threats. As society becomes more technologically linked, their duties also include keeping an eye on networks for potential hacking, investigating incidents, and placing strong safety precautions in position. The significant effect that cyberattacks could have on sensitive data and trust among individuals in cyberspace emphasize the significance of this role. Incorporating insights from social sciences—psychology in particular—allows investigators studying cybersecurity to better understand the hackers' routines and create defenses against possible attacks. Building a safer online environment calls for better laws and guidelines. By understanding society's values and beliefs, cybersecurity analysts can better improve their chances to protect against increasing numbers of cyber threats and breaches. Making it a contribution to a safer digital world.

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## References

Bhattacharjee, A. (2012). *Social Science Research: Principles, Methods, and Practices*. Anol

Bhattacharjee.

file:///Users/jessicafrimpong/Downloads/Social%20Science%20Research\_%20Principles%20Methods%20and%20Practices.pdf

*Dimension 2: Cybersecurity Culture and Society | Global Cyber Security Capacity Centre.*

(n.d.). Global Cyber Security Capacity Centre. Retrieved December 3, 2023, from

<https://gcsc.ox.ac.uk/dimension-2-encouraging-responsible-cybersecurity-culture-within-society>

National Academies of Sciences, Engineering, and Medicine, Division of Behavioral and

Social Sciences and Education, Committee on a Decadal Survey of Social and

Behavioral Sciences for Applications to National Security, & Board on Behavioral,

Cognitive, and Sensory Sciences. (2019). *A Decadal Survey of the Social and*

*Behavioral Sciences: A Research Agenda for Advancing Intelligence Analysis*.

National Academies Press. <https://nap.nationalacademies.org/read/25335/chapter/1#ii>

Simmons, L. (n.d.). *A Day in the Life of a Security Analyst | CyberDegrees.org*. Cyber

Degrees. Retrieved December 3, 2023, from

<https://www.cyberdegrees.org/careers/security-analyst/day-in-the-life/>

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