

# SECURITY STUDIES

FOR MORE INFORMATION PLEASE CONTACT:

2021  
SPRING

SYED HAIDER, MPA AT SHAIDER1@NJCU.EDU

NEWSLETTER

## NEW CYBER SECURITY BACHELOR OF SCIENCE DEGREE PROGRAM!

The Bachelor of Science in Cyber Security provides students with the necessary knowledge, skills, and professional training to pursue careers in the rapidly growing field of Cyber Security. The program offers a balance between the theoretical and deep technical skills of Cyber Security. The program prepares our graduates to face the futuristic security-related challenges emerging from our internet-connected world, the rapid adoption of mobile devices, and the ever-increasing role of software applications in our daily life. Our curriculum for the B.S. in Cyber Security program blends contemporary knowledge with advanced research concepts to deliver a cutting-edge program mapped with the NSA/DHS guidelines and knowledge units.



**Dr. Lazlo Molnar Assumes Coordinator Role for the M.S. in National Security Studies Graduate Program.** Dr. Molnar holds a Ph.D. in International Relations and studied at the Fletcher School of Law and Diplomacy and at the J.F. Kennedy School of Government, Harvard. His experience includes serving as a career diplomat with the Hungarian foreign service for two decades, e.g. as deputy state secretary for multilateral relations; deputy

head of the State Secretariat for EU Integration; consul general and then ambassador of Hungary to the UN in New York. His international diplomatic assignments are related mainly to international security and nuclear nonproliferation. Dr. Molnar's role as coordinator for the M.S. in National Security Studies will provide students with first-hand experience and knowledge, in both study and practice.



**Dr. Scott Fisher Selected by NATO and the U.S. Army to Teach Information Warfare at the NATO School in Germany.** He shared his background in information operations and data analysis with a group of civilian and military officials throughout NATO. Dr. Fisher joined Dr. Klein (formerly of NJCU and now with Leiden University in the Netherlands)

to present twice at the September 2020 meeting of the American Political Science Association (APSA): a short course on Foreign Official Communication & Using Sentiment Analysis for scholars interested in learning more about web scraping and text analytics, and Information Environments and Affecting Authoritarian Regimes' Mindsets, a paper written along with Dr. Codjo of findings from our text analysis of Chinese state media. Finally, over the summer Dr. Fisher helped the department launch FOCUSdataproject.com. The site was created courtesy of a grant from the Office of the Director of National Intelligence (ODNI) and allows scholars from around the world to conduct research of over 1,000,000 Chinese, Russian, North Korean and Iranian state media and foreign ministry articles.



**Dr. Juste Codjo Assumes Coordinator Role for the Doctor of Science (DS.c.) in Civil Security Leadership, Management and Policy Program.** Dr. Codjo holds a Ph.D. in Security Studies from Kansas State University and a Graduate Certificate in Strategic Studies from the U.S. Army Command and General Staff College. He specializes in national and international security with a regional focus on Africa.

His teaching and research interests revolve around political violence, U.S. and French national security policy toward Africa, peace operations,

U.S. security cooperation policy, and governance and stability in the developing world. He previously taught security studies and political science at the American University, the University of Kentucky, and Kansas State University. Prior to joining academia, he served as an army officer in the Benin Armed Forces for nearly 20 years. While on active duty in Benin, he attended education at several military institutions in Africa, the U.S. and Germany. He also participated in a U.N. peacekeeping operation in 2004 that helped restore peace in Liberia. His scholar-practitioner experience will be of great value to the program.



**Dr. Wiltsey Continues Work on Developing a Forensic Concentration** and has been teaching new coursework that he created and that will be part of this concentration, including Behavioral Analysis and Criminal Profiling, Crime Scene Investigation, and Bloodstain Pattern Analysis, which will be offered for the first time in Spring 2021.



**Dr. Wiltsey Working With Law Enforcement and Academic Colleagues on the New Jersey Resilience Program for Law Enforcement.** In March 2019, he participated as part of the executive training staff to train approximately 187 law enforcement officers across the state as Master Resilience Trainers. In addition, he and his colleague Dr. C. Gabrielle Salfati from John Jay College of Criminal Justice initiated and are doing a cross-institution collaboration on a research study on the impact of the resilience training on individual and organizational outcome factors. Dr. Wiltsey will be presenting an overview of the New Jersey program at the Police Resilience Symposium being held virtually from September 22 through September 24, 2020. The symposium is co-hosted by NYPD, Columbia University, and the New York State Psychiatric Institute. He is a member of the production team and has also been a featured speaker on a number of videos for the webcast series Resilient Minds on The Front Lines accessible at their website and on YouTube. Dr. Wiltsey will also co-author a presentation titled Law Enforcement Resilience Training Impact with his research collaborator and graduate students from John Jay College of Criminal Justice at the upcoming Society for Police and Criminal Psychology annual conference, being held online November 5-7, 2020.

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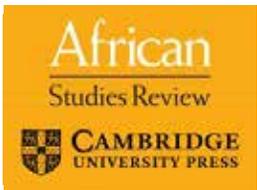
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## FACULTY PUBLICATIONS



**Faculty Member:** Dr. Juste Codjo

**Publication:** *African Study Review*

**Article Title:** "Confronting Rebellion in Weak States: Government Response to Military Mutiny in Benin"

Published by Cambridge University Press: 03 September 2020). Dr. Codjo's research has been featured in the *African Studies Review* (ASR). The ASR is the flagship scholarly journal of the African Studies Association (USA). Publishing the highest-quality African studies scholarship in all academic disciplines, the ASR's rigorous interdisciplinary peer review seeks to contribute to the development of scholarly conversations of interest to the diverse audience of the Association's membership and to the growth of African studies in North America, on the African continent, and in a global comparative context.



**Faculty member:** Dr. Kutub Thakur (co-author)

**Book Title:** *Cybersecurity Fundamentals: A Real-World Perspective*

This text explains detailed concepts within computer networks and computer security in an easy-to-understand way, making it the perfect introduction to the topic. This book covers fundamental issues using practical examples and real-world applications to give readers a rounded understanding of the subject and how it is applied.

**Publication:** *Journal Archives of Computational Methods in Engineering*

**Article Title:** "Nature Inspired Techniques and Applications in Intrusion Detection Systems: Recent Progress and Updated Perspective"

Nowadays, it has become a necessity for operational and reliable operation of

networks due to our increased dependency over the network services. However, intruders are continuously attempting to break into the networks and disturbing the network services using a variety of attack vectors and technologies. This motivates us to develop the techniques that ensure operational and reliable network, even in changing scenarios. Recently, most of the researchers have focused on the employment of techniques inspired by a natural phenomenon to detect the intrusions effectively. Nature-Inspired Techniques (NITs) have the ability to adapt to a constantly changing environment. Thus, they help to provide in-built resiliency to failures and damages, collaborative, survivable, self-organizing and self-healing capabilities to IDSs. The paper presents an analysis of NITs, and their classification based on the source of their inspiration.



**Faculty Member:** Dr. Abdullah Al-Hayajneh

**Publication:** *MDPI-Computers*

**Article Title:** "A Comprehensive and Systematic Survey on the Internet of Things: Security and Privacy Challenges, Security Frameworks, Enabling Technologies, Threats, Vulnerabilities and Countermeasures"

This research provides a comprehensive overview of the Internet of Things (IoT) in regards to areas of application, security architecture frameworks, recent security and privacy issues in IoT, as well as a review of recent similar studies on IoT security and privacy.

**Publication:** *IEEE International Conference on Cyber Science and Technology Congress 2020*

**Article Title:** "Web Browser Extension User-Script XSS Vulnerabilities"

This study focused on user-script manager browser extensions has displayed a structural XSS vulnerability. The research aims to discuss the context in which these sub-ecosystem browser extensions exist, as well as demonstrate how and why they are vulnerable to cyber-attacks, along with an example of such.



**Faculty Members Present at International IOT, Electronics and Mechatronics Conference Vancouver, Canada, 9-12 September, 2020. Conference (iemtronics.org)**

**Presenters:** Drs. Lippter Li, Kutub Thakur, and Md Liakat Ali

**Presentation Title:** "Potential Development on Cyberattack and Prospect Analysis for Cybersecurity"

**Presenters:** Drs. Viktoriya Gorbach, Md Liakat Ali, and Kutub Thakur

**Presentation Title:** "A Review of Data Privacy Techniques for Wireless Body Area Networks in Telemedicine"



**Intelligence Community Center for Academic Excellence and National Center of Academic Excellence in Cyber Defense**



Security Studies Program has Federal Designations in Both Cyber Security and Intelligence