

PhD Projects - Centre of Expertise Cyber Security

Hactivism: honourable cause or serious threat?

Investigating hactivists' motivations, engagement process, *modus operandi* and network structures.

M. (Marco) Romagna, The Hague University of Applied Sciences – Leiden University

Using diverse theoretical background rooted in social psychology and criminology, the project investigates:

- the motivations for individuals to engage in hactivism and the process they follow to become hactivists;
- the reasons that prompted them to use hacking as their main form of protest;
- their *modus operandi* and the organizational dynamics within different hactivists' groups and networks.

Victimisation in a Digitised Society: perception and impact

R.J. (Raoul) Notté, The Hague University of Applied Sciences - Tilburg University

Research into the impact of Image Based Sexual Abuse and Romance Scams, the public discourse on victimization and the relationship between these two to gain further insight into the depth of impact, victim- and self-blaming.

Automated security analysis in graphs and state machines

D. J. (Daniel) Meinsma, The Hague University of Applied Sciences - Delft University of Technology

Society depends on the safety and security of software. Powerful methods exist for the automated generation of visual graphs of the inner workings of software systems, but manual analysis remains required to further investigate security weaknesses. This research project will investigate how to automate this manual process.

Crime script analysis of cybercrimes

S.R. (Sifra) Matthijsse, The Hague University of Applied Sciences

This research will gain insight into the steps cybercriminals take to commit their crimes through crime scripting. Based on the crime script, interventions aimed at the offenders and victims will be developed and tested.

Towards cybercrime prevention: unraveling money mule involvement mechanisms

L.M.J. (Luuk) Bekkers, the Hague University of Applied Sciences

Money mules are key in the execution of financially-motivated cybercrime. By using both qualitative and quantitative methods, the project aims to explain how money mules become involved in criminal networks. Knowledge on this matter can be used to disrupt cybercriminal activities.

Learning a programming language using natural language acquisition strategies

M. (Marcella) Veldthuis, The Hague University of Applied Sciences - Leiden University

Digital literacy is an important 21st century skill. Everyone should have a basic knowledge of programming. Because programming languages and natural languages have similarities we will be researching how natural language acquisition strategies can be used to enrich programming education. Consecutively the focus lies on reading, structuring and writing code.

Pathways into cyber-dependent crimes and prevention strategies against it.

J. (Joeri) Loggen, The Hague University of Applied Sciences

Cyber-dependent crimes (e.g. hacking and ddos-attacks) are on the rise. With the digitalization of society, these cybercrimes are likely to cause more and more damage. Prevention strategies are therefore badly needed. This research project will investigate the different ways in which individuals become involved with cyber-dependent crimes and develop interventions aimed at deterring these (potential) cybercriminals.

Ethics of care as a corporate governance model.

J. (Jasmijn) Boeken, The Hague University of Applied Sciences – Leiden University

Putting the social in the technical can be considered an act of care. In this PhD project, a corporate governance model that facilitates security by design is suggested. Defining security by design in a new, broader way, the social aspects of cybersecurity are included. Care ethics will be the theoretical lens in this research. It distinguishes itself by looking at relationships, empowerment and the obligation of care.