

Prof. Phil Legg

Professor in Cyber Security

Co-Director: UWEcyber ACE-CSE

Programme Lead: MSc Cyber Security

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Cyber Security @ UWE





About Me



- Professor in Cyber Security
- Programme Leader for NCSC-certified MSc Cyber Security
- Co-Director of UWEcyber (NCSC ACE-CSE)
- Research interests:
 - Cyber security, Machine Learning, Data Visualisation
- Research domains:
 - Insider threat detection, cyber situational awareness/resilience,
 AI for security and security of AI, privacy-preservation, explainability





Cyber Security at UWE

- NCSC Gold Academic Centre of Excellence in Cyber Security Education (ACE-CSE)
- NCSC-certified MSc Cyber Security
- NCSC-certified Cyber Security Technical Professional (Degree Apprenticeship)
- BSc Cyber Security and Digital Forensics

- Regional: Outreach / Bootcamps / Workshops
- National: CISSEUK, ACE-CSE network
- Research: Partnership PhD Scheme
- Research: Cyber Security and Cyber Crime Cluster (CSC3)
- Research: NCSC / DSTL / EPSRC / industry funding opportunities











Academic Centre of Excellence in Cyber Security Education











- NCA Research activity includes hardened device forensics to assist NCA with criminal investigation
- ASC & SW ROCU Research on dark web contextual analysis using Natural Language Processing and indicators of activity
- Synalogik InnovateUK funded projects on improving digital investigation of Counter Terrorist Financing, Organised Crime Groups, and Suspicious Activity Reporting (FET/FBL)









- AWS Research activity on federated machine learning for security process at cloud scale.
 Maintaining customer privacy whilst ensuring secure and safe compute.
- Ribbon Communications Partnership PhD research investigating cyber security attack mitigation on telecommunications infrastructure, including fraudulent call record behaviours.
- VQ Communications Visualisation and remediation of containerisation software security











- MOD Ongoing student project collaboration and input into taught modules.
- BAE/Techmodal Partnership PhD investigating adversarial machine learning for evading and improving AI-based cyber defenses.
- Leonardo Ongoing collaboration to form research-based MSc projects.
- Montvieux Partnership PhD investigated interpretable machine learning models for prediction of global conflict events.









- Fusion Processing / CCAV Previous project on security assessment of CAV (part of BRL CAVForth)
- NCSC Previous research projects on malware propagation assessment, and IoT home security.
- DSTL Previous research projects on humanmachine teaming for collaborative learning for security event detection, and on intrusion detection and response with integrated business process modelling



Cyber Security Education Outreach





























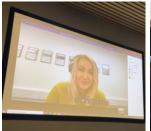














































National Cyber Security Centre























































Thank you for listening



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