

University College London

Academic Centre of Excellence in Cyber Security Research

Prof. Emiliano De Cristofaro, Director

<https://www.ucl.ac.uk/cybersecurity-centre-of-excellence/>

What are ACE-CSRs?

Recognition of world-class research in the field of cyber security by NCSC and EPSRC

Scheme encouraging collaboration across 19 centres

Enhancing the UK's knowledge base providing top-quality graduate training

Supporting NCSC and driving up the level of innovation

What we do /1

- Publications at top-tier conferences
 - UCL #10 in Europe on csrankings.org
- Contribute to standards
- Release open source code
- Serve in government advisory boards and NGOs
- Lots of collaborations with industry
 - Microsoft, Intel, Google, Cisco, HP, IBM, BT, O2, National Grid, G4S, SAS, McAfee, BAE, Thales, NortonLifeLock, Telefonica, Amazon, Nokia etc.

What we do /2

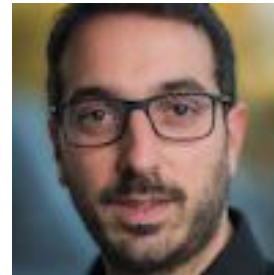
- Commercialisation, Spin-offs
 - E.g., ChainSpace!
- Get research funding!
 - UKRI, EU, EPSRC, NCSC, etc.
 - Founding Partner of REPHRAIN
- Education
 - 2nd Year UG module on Security
 - MSc in Information Security (NCSC Certified)
 - Supervise PhD students and PostDocs
 - Centre for Doctoral Training in Cybersecurity

Information Security Research Group



Madeline Carr

Global Politics and
Cyber Security



George Danezis

Privacy Technologies,
Blockchains



Emiliano De Cristofaro

Privacy Technologies,
Trustworthy ML,
Online Harms



**Lorenzo
Cavallaro**

Systems Security,
Trustworthy ML



Marie Vasek

Security Economics,
Cybercrime

Information Security Research Group



Angela Sasse

Human and
organisational aspects
of security



Philipp Jovanovic

Cryptography, Blockchains,
Privacy



Steven Murdoch

Authentication, banking
security, anonymous
communications



Sarah Meiklejohn

Cryptography, computer
security, anonymity, and
cryptocurrencies

Systems and Networks Research Group



Mark Handley
Secure network
protocols, DoS,
secure routing



Brad Karp
Systems Security

Centre for Research on Evolution, Search and Testing



Earl Barr
Malware
detection,
deobfuscation



David Clark
Flow security of software,
malware detection, testing of
software



Jens Krinke
Program analysis,
code provenance,
clone detection

Programming Principles, Logic and Verification Research Group



Byron Cook
Automatic program
verification and
analysis



David Pym
Security management,
economics of information
security

Dept. of Science, Technology, Engineering and Public Policy



Irina Brass

Economic and social
regulation of disruptive
technologies, cyber security
and data protection of IoT



Leonie Tanczer

Technology, security and
gender, (in)security of
hacking and hacktivism

Dept. of Security and Crime Science



Shane Johnson
Future Crimes



Ingolf Becker
Cybercrime, Organisational
Cyber Security



Enrico Mariconti
Malware, Cybercrime

Additional members



Shi Zhou

Dept. of Computer Science

Internet topology and routing; epidemic spreading, cloud computing classification, social media analysis, network security



Mirco Musolesi

Dept. of Computer Science

Data science, sensing, modelling, human behaviour and dynamics, cyber security and privacy

Agenda

14:30 Trustworthy AI... for System Security
Prof. Lorenzo Cavallaro (UCL)

15:15 Coffee Break

15:30 Panel: Online Safety Bill -- Challenges and Opportunities
Moderated by Prof. Steven Murdoch (UCL)

16:30 Prospects and Pitfalls for Machine Learning in Software Security
Prof. Brendan Dolan-Govitt (New York University)

Housekeeping

Please wear a mask!

gcwifi / pineberry44

If you're streaming, please use sli.do for questions



<https://app.sli.do/event/pWi6SC1dygWVQSkXqKUaVN>

Event code: #3883328