

Amy Ertan

Cyber Security Researcher

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CISSP-certified researcher and doctoral candidate. Fellow at the Belfer Center, Harvard Kennedy School and Visiting Scholar at the NATO Cooperative Cyber Defence Centre of Excellence. Research expertise includes organisational security management, strategy and norms-building, and international cyber defence coordination.

Professional Experience

Independent Cyber Security Researcher

2017 – 2021

- *Research Institute for Socio-Technical Cyber Security* November-2020 - Present
Research lead and co-author on “Remote Working and (In)Security” report and corresponding literature review.
- *King’s College London, King’s Policy Institute* December 2020- April 2021
Co-author on policy report examining the UK’s approach to Offensive Cyber (see *Selected Publications* below).
- *NATO Cooperative Cyber Defence Centre of Excellence* December 2020- March 2021
 - Core development of the strategic scenario for Locked Shields (the largest cyber defence exercise internationally).
 - Facilitated live financial sector involvement (FS-ISAC, approx 45 colleagues).
 - Research on security implications of emerging cyber security trends; edited book on horizon scanning and the threat landscape; remote working and cyber security
 - Contributed to CyCon Conference development and co-chaired a cyber exercise workshop
- *Winsland Consulting* April-2020 - November 2020
Authored Concept of Operations document – focusing on security risk management
- *CyberFish* April-2020 - November 2020
Designed two educational cyber-security war-gaming scenarios
- *CybSafe* April-2020 - November 2020
Researched and co-authored ‘Engaging the Board in Cyber Risk Management’ for UK government

Barclays Bank PLC London

September 2017 – March 2020

Strategic Cyber Intelligence Analyst (Associate, Part-Time)

- Open-source research to produce thematic papers on cyber security threats.
- Managed the creation and distribution of a quarterly Intelligence Report offering trend analysis for cyber, physical and geopolitical security threats.

Barclays Bank PLC London

August 2015 – March 2017

Open Banking Propositions Manager

- Designed customer facing projects an anticipation of PSD2 and Open Banking.
- Department cyber security awareness champion.

Operations and Technology Graduate Programme

- Regulatory Business Analyst, Investment Bank and Continuous Improvement Analyst, Corporate Bank.
Outstanding end of year rating.

LoCo2 Hertfordshire - Sales and Trading Intern

Autumn 2014

Barclays Bank - Operational Change Internship

Summer 2014

JP Morgan Chase - Internship

Summer 2013

Enterprise Recruitment - IT Recruiter

2010 – 2011

Professional Qualifications

- Certified Information Systems Security Professional, (ISC)2 August 2020
- CREST Registered Threat Intelligence Analyst, (CREST) March 2020
- Financial Crime; UK Financial Regulation; Securities and Investment, (CISI) April 2016

Education

PhD in Information Security, Royal Holloway, University of London **2017 – Present**

Thesis: “The Security Implications of AI in National Security & the Military”

Methods: Document and policy analysis; interviewing senior leadership across industry, government, military and NATO.

Themes: cyber security; risk management; threat modelling; weaponised capabilities; strategy; geopolitics; machine learning; intelligence; military innovation; innovation culture and market dynamics.

Committee Dr Rikke Jensen and Prof. Keith Martin

CDT Taught Programme 2017-2018: Network security, computer security, security management, geopolitics and AI strategy in warfare. Summer project looked at cyber-attribution and false flag attacks.

BA Philosophy Politics and Economics. St Hugh’s College, University of Oxford **2011 – 2014**

BA Hons 2.1. Charities Representative; PPE Society Secretary

Fellowships and Awards

- Cyber Security Fellow – Belfer Center, Harvard University 2020-2022
- Visiting Fellow – NATO Cooperative Cyber Defence Center of Excellence 2020-2021
- Data Protection Fellow – Institute of Technology and Society 2019-2020
- FS-ISAC BCD Scholarship Award 2019
- CYBERWARCON Conference Attendance Sponsorship 2019
- 2018 Cyber Security Student of the Year (SCMedia UK) 2018
- ‘Cyber 9/12’ Strategy Policy Team Winner 2018

Selected Publications

Please visit <https://www.amyertan.com/projects> for a more expansive list on current publications and presentations.

1. **Policy Report** Joe Devanny, Andrew Dwyer, Amy Ertan and Tim Stevens (2021) “The National Cyber Force that Britain Needs?”. King’s Policy Institute.
<https://www.kcl.ac.uk/policy-institute/research-analysis/national-cyber-force>.
2. **Edited Volume** Amy Ertan, Kay Floyd, Piret Pernik and Tim Stevens. (2020) “Cyber Threats and NATO 2030: Horizon Scanning and Analysis”. NATO CCDCOE. https://www.ccdcoe.org/uploads/2020/12/Cyber-Threats-and-NATO-2030_Horizon-Scanning-and-Analysis.pdf
3. **Government Report** Rikke Bjerg Jensen, Crossland, Georgia, Amy Ertan, David Denney, and Claude Heath (2018). “Everyday Cyber Security in Organisations”, Cabinet Office.
<http://arxiv-export-lb.library.cornell.edu/abs/2004.11768>
4. **Book Chapter** Amy Ertan (2020) Postgraduate Study in Cybersecurity. In. Rise of the Cyber Women – Edited by Lisa Ventura.

Current Professional Affiliations

- International Conference on Cyber Conflict (CyCon) 2021: Moderator and Workshop Co-Lead
- Advisory Board Member: We and AI; CyberFish
- Co-Lead: Offensivecyber.org (Academic community)

Skills

Computer Skills: Basic: Python, SQL. Moderate: LaTeX. Proficient: Microsoft Office inc. Excel.

Languages: Native English, Novice French, Turkish, Estonian (A1-A2).

Other

Hobbies include travel, volunteering (advocacy, social mobility, mentoring and community organising) and sports (marathon runner, rowing, yoga); British and Irish nationality – happy to relocate.