

Day One – Tuesday 9th September

Next steps for Autonomous Cyber Defence

09:30 – 10:00	Registration & Refreshments
10:00 – 10:15	Welcome & Introduction to AMLUCS <i>Alex Revell, Frazer-Nash Consultancy</i>
10:15 – 10:45	Keynote <i>Sadie Creese, Professor of Cyber Security, University of Oxford; Founding Director, Global Cyber Security Capacity Centre; Strategic Advisory Board Member, World Economic Forum.</i>
10:45 – 11:15	Adaptive by Design: Contextual Reinforcement Learning for Mission-Ready Cyber Defence <i>Dr Jake Thomas, Advai</i>
11:15 – 12:00	Break & Refreshments
12:00 – 12:30	Autonomous Cyber Resilience: An Infrastructure-as-Code Approach for Coalition Military Networks <i>Dr Konrad Wrona, NATO Communications and Information Agency</i>
12:30 – 13:00	Deploying Autonomous Cyber Defence onto a Military Relevant Physical System <i>Alec Wilson, BMT</i>
13:00 – 14:15	Lunch & Poster Viewings (<i>The Annexe</i>)
14:15 – 15:00	Panel: Operationalising AI - Integrating Machine Learning into Defence Cybersecurity Systems <i>Helen Wilson, Dstl, with Ministry of Defence stakeholders.</i>
15:00 – 15:15	Autonomous Defensive Cyber <i>Wayne Gould & Lara Tolley, Dstl</i>
15:15 – 15:45	Break & Refreshments
15:45 – 16:15	Simulation-to-Reality Gap via RL-trained ROSbots <i>Dr Jack Smith, Awerian</i>
16:15 – 16:45	Topological Extensions for Reinforcement Learning Agents (TERLA). <i>Tim Dudman, Riskaware</i>
16:45 – 17:00	Day One: Closing Remarks <i>Alex Revell, Frazer-Nash Consultancy</i>
17:00 – 19:00	Drinks Reception <i>(Exhibition Space) and MU</i>

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Day Two – Wednesday 10th September

Red Agents, AI Security & Evaluations

09:00 – 09:30	Morning Refreshments
09:30 – 09:45	Day Two: Opening Remarks <i>Alex Revell, Frazer-Nash Consultancy</i>
09:45 – 10:30	Keynotes: including the Impact of AI on cyber threat from now to 2027 <i>Peter H & Annabel W, NCSC</i>
10:30 – 11:00	RAGING MINOTAUR: Improving Defence against AI-driven Cyber-Attacks by Designing More Capable Autonomous Cyber Training Adversaries <i>Althea Waites & Sharaz Anwer, Dstl</i>
11:15 – 11:30	Lessons Learned in the Application of Reinforcement Learning Agents for APT Attack Path Generation <i>Chad Caison, Six24 Cyber Labs, SIEGE team, DARPA CASTLE</i>
11:30 – 12:00	Break & Refreshments
12:00 – 12:30	Mitigating data poisoning attacks against RL from Human Feedback (RLHF) finetuning <i>Dr James Titchener, Raytheon</i>
12:30 – 13:00	Text2VLM: Adapting Text-Only Datasets to Evaluate Alignment Training in Visual Language Models <i>Dr Jake Thomas, Advai</i>
13:00 – 14:00	Lunch & Poster Viewings (<i>The Annexe</i>)
14:00 – 14:30	A Statistical Pipeline for Uncertainty Quantification in ACD Test and Evaluation <i>Smith Institute</i>
14:30 – 15:00	Modelling adversarial behaviour to enable AI predictions analogous to counterfactual reasoning <i>Dr Louis Gauntlett, Frazer-Nash Consultancy</i>
15:00 – 15:15	Closing Remarks <i>Alex Revell, Frazer-Nash Consultancy</i>

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