



## CROW students' research success



From left – CROW students Mitchell Grout and Chris Anderson receive Computer Science Student Research Conference awards from Computer Science chairperson Professor David Bainbridge and Vice-Chancellor, Professor Neil Quigley.

Congratulations to Mitchell Grout and Chris Anderson for clinching the Best Presentation Award and the Runner-Up Best Project Award respectively for the Faculty of Computing and Mathematical Sciences Honours Student Research Conference 2018.

Mitchell's Best Presentation topic looked at the application of a cryptanalysis technique known as differential cryptanalysis to SHA-2, which has been successfully used in the past to break many cryptographic hash functions MD5 and SHA-1.

Chris' project is the visualisation of memory provenance using a novel approach to both gather a high-grain forensic log of events, and to enable the recovery of processes targeted by malicious actors.

Mitchell is thankful to Dr Ryan Ko, Aleksey Ladur, and Cameron Brown, for their invaluable input and special thanks to Daniel Roodt for his help with understanding differential cryptanalysis. Chris also credits CROW head Dr Ryan Ko and Aleksey Ladur for their supervising and supporting his research project, and to Jeffery Garae, for the inspiration in pursuing the project and help with the earlier visualisations.

CROW students have won awards in four of the past five years.

# MazeRunner

# Events



CROW master's student Arnav Gogia is conducting research on Cyber Deception technology in a globally deployed honeynet environment using MazeRunner, an enterprise product provided by Cymmertria's education collaboration program. "Our scope is to measure how effective it is

compared to traditional honeypots and validate its usefulness against hackers in real time. A modern deception defense strategy should accommodate automated - discovery, decoy creation, deployment, response, and adaptation." Distributed in Australasia by Avantgard, Cymmetria has provided CROW with the full enterprise version for research and training purposes. "We believe that the defender community can extend and maintain deceptive capabilities that sustainably tilt the balance back in favour of the cyber defender. Cymmetria sees university research into this area a key method of extending this knowledge in the computer science domain," Avantgard's founder Andrew Cox says. [READ MORE](#) about MazeRunner

[Register Now](#)



Register now for The Waikato Dialogue: The Implications of Emerging Disruptive Technologies for International Security and NZ on Thursday, September 20.

[Find out more](#)

**Save the Date**

## CROW welcomes new students



CROW welcomes new students Daniel Seluini from Tonga, Rajat Rokhade from Hubballi, India and Saira Boban from Kerala, India. They are all excited about embarking on their Masters of Cyber Security journey at the lab.

Find out more about the newest CROW students.

[Daniel](#)   [Rajat](#)   [Saira](#)

## CROW represents at Tongan conference



STRATUS extends an invitation to the 2018 STRATUS Forum - Friday, November 2. This year, the focus is on technology commercialisation. Email [Brian Cole](#) for more information.



Expressions of interest are open for sponsors of the 18th [IEEE](#) International Conference on Trust, Security and Privacy in Computing and Communications (IEEE Trustcom 19) held 5-8 August 2019 in Rotorua. The conference brings together researchers and practitioners working on trusted computing and communications from around the world to present and discuss emerging ideas and trends.



Former CROW students Siuta Lau Laupeaalu and Jeff Garae represented the University of Waikato at the *Cyber Forensic and Security International Conference* in Tonga recently and won prizes for their presentations. The conference theme *Better Protection for Stronger Communities* explored cyber security, digital forensics, and information assurance and security management.

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Expressions of interest are sought for an Auckland or Hamilton [CISSP](#) certification workshop in October to [nziscs@waikato.ac.nz](mailto:nziscs@waikato.ac.nz). The workshop is ideal for security practitioners, managers and executives interested in improving their cyber security knowledge. All courses will be led by NZ (ISC)<sup>2</sup> certified members.

## UESTC visits CROW



A group of University of Electronic Science and Technology of China undergraduate students visited CROW recently to find out about what studying at the University of Waikato can offer. UESTC is one of the best universities in China in the areas of computing, ICT and electronics.

## CROW in the News



New Zealand Institute for Security and Crime Science senior lecturer Joe Burton writes about how cyber criminals are increasingly targeting the tourism market.

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## News



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