

CONTACT INFORMATION	Optus La Trobe Cyber Security Research Hub Department of Computer Science and IT School of Engineering and Mathematical Sciences La Trobe University — Victoria 3086 — Australia	+61 (4) 24 457 049 <a href="mailto:scholars.latrobe.edu.au/~nalin">scholars.latrobe.edu.au/~nalin</a> <a href="mailto:nalin.asanka@latrobe.edu.au">nalin.asanka@latrobe.edu.au</a>
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RESEARCH INTERESTS	Usable Security and Privacy, Usable Cryptography, Secure Programming, Cyber Security Education, Software Security Engineering, Machine Learning for Cyber Security, Information Systems Security, HCI, Serious Games
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EDUCATION	<b>Ph.D. in Computer Science</b> May 2010 to July 2013 <b>Brunel University London</b> , United Kingdom Thesis Title: Security Awareness of Computer Users: A Game Based Learning Approach Advisors: Dr. Steve Love and Dr. Mark Perry Examiners: Professor David Benyon and Dr. David Bell
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	<b>M.Sc. in Information Management and Security</b> Oct 2008 to Sept 2009 <b>University of Bedfordshire</b> , United Kingdom Thesis Title: Consumer Trust Formation B2C UK E-Banking
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	<b>B.Sc. (Hons) in Management Information Systems</b> Jul 2004 to Aug 2008 <b>University College Dublin</b> , National University of Ireland, Ireland GPA = 3.65/4 (2.1) - (First Class Hons = 3.7) Thesis Title: Developing a Distribution Planning System
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CERTIFICATION	<b>Sun Certified Java Programmer (SCJP 1.4)</b> Mar 2005 to Feb 2006 <b>Sun Microsystems (now Oracle)</b> , USA
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EMPLOYMENT	<b>Senior Research Fellow in Cyber Security</b> Mar 2019 to Present (equivalent Research Associate Professor) Research Leader, Usable Security Engineering Research Group (USERGroup) Optus La Trobe Cyber Security Research Hub Department of Computer Science and IT School of Engineering and Mathematical Sciences La Trobe University — Victoria 3086 — Australia
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**Brief Synopsis of Research:** As a Senior Research Fellow - Level C/6 - Highest level (Research Associate Professor in the US) in Cyber Security, within the Department of Computer Science and Information Technology at La Trobe University, Australia, I currently lead the Usable Security Engineering Research Group (USERGroup) in the Optus La Trobe Cyber Security Research Hub. My research group consists of 3 full-time PhD researchers, 2 Master of Researchers and industry partners i.e. NAB, Optus, Secure Code Warrior and CSIRO's Data61. Besides, I currently collaborate with several researchers and academics on various projects from the University of Adelaide, University of Sydney, King's College London (Co-supervise a PhD thesis of Joseph Shams with Associate Professor Jose Such), University of Northumbria and the University of Waterloo. I daily supervise students' thesis research and write grant proposals in the area of usable security and privacy. I assist with brainstorming thesis direction, study design, ethics applications, research method, system implementation, and writing up results. I also oversee student progress through weekly meetings and provided feedback on the research work.

**Lecturer (Assistant Professor) in Cyber Security** Aug 2015 to Mar 2019  
School of Engineering and Information Technology (SEIT)  
University of New South Wales (UNSW Canberra)  
Australian Defence Force Academy (ADFA)  
Australia

**Brief Synopsis of Research and Teaching:** In the University of New South Wales (UNSW), I worked as Lecturer in Cyber Security (both research and teaching) in the UNSW Canberra Cyber at the Australian Defence Force Academy (ADFA). I managed (e.g. curriculum development, teaching and administration) a number of courses in the Master of Cyber Security, Master of Cyber Security Operations and Bachelor of Computing and Cyber Security programs at UNSW. Apart from my teaching, I also researched in the area of usable security and privacy engineering (i.e. designing secure systems that people can use) and supervised postdoctoral researchers and postgraduate students (PhD/MPhil) with refereed publications and thesis.

**Research Associate (Part-Time)** Aug 2015 to Oct 2015  
Australian Centre for Cyber Security (ACCS)  
University of New South Wales (UNSW Canberra)  
Australian Defence Force Academy(ADFA)  
Australia

**Sessional Lecturer** Jul 2015 to Oct 2015  
School of Information Technology  
Deakin University, Australia

**Sessional Lecturer** Jul 2015 to Oct 2015  
College of Engineering and Science (Information Technology)  
Victoria University, Australia

**Sessional Lecturer** Jul 2015 to Oct 2015  
School of Engineering & Technology  
CQUniversity Melbourne, Australia

**Guest Lecturer in Cyber Crime** Jun 2015 to Jun 2015  
School of Computing  
National School of Business Management affiliated to Plymouth University, UK

**Postdoctoral Research Fellow** Apr 2014 to Apr 2015  
Electrical and Computer Engineering  
University of British Columbia, Canada  
Supervisor: Professor Konstantin Beznosov

**Brief Synopsis of Research:** In ECE, I work in the Laboratory of Education and Research in Software Security Engineering (LERSSE) on usable security projects, including the Teens' Privacy and Security (TPS) project. TPS is a collaborative project with Professor Jennifer Shapka from the Department of Educational and Counselling Psychology, and Special Education, at the University of British Columbia. To design better privacy solutions, it is worth understanding how teens make privacy decisions, and characterize the privacy risks that result from these decisions. Therefore, this project investigates how teens conceptualize privacy in the technology-filled world. Apart from my research, I also deliver guest lectures and assist in supervising graduate students (PhD and Master of Applied Science with refereed publications and thesis).

**Postdoctoral Research Assistant**  
Department of Computer Science  
Oxford University, UK  
Supervisor: Professor Andrew Martin

July 2013 to Mar 2014

**Brief Synopsis of Research:** Trust Domains was a collaborative project between the University of Oxford, Hewlett Packard Labs, Perpetuity Research and Consultancy, and the Universities of Birmingham, UCL, and Aberdeen. The project aimed to develop Trust Domains as a basic concept for separating information, processes, and concerns, and as a modelling and design paradigm for risk-tailored architectures. The project expected to provide security-enhanced, distributed containers for the next generation of composite electronic services for supporting collaboration and data exchange within and across multiple organisations. My contribution concentrated on the definition of architectures with measurable trust characteristics, and the delivery of one or more components, which help to advance the state of the art in such systems. As part of my responsibilities/duties, I have presented a poster and delivered a presentation in the quarterly meeting at HP Lab, Bristol.

**Part-Time Lecturer in Computer Science**  
Department of Computer Science  
Brunel University London, UK

Oct 2012 to Jul 2013

**Visiting Lecturer in Computer Science**  
Department of Computer Science  
University of Bedfordshire, UK

Jan 2011 to Jul 2013

**Visiting Lecturer in Computer Science**  
Department of Computer Science  
Westminster University, UK

Jan 2011 to Apr 2011

**Graduate Teaching Assistant - Seminar Tutor**  
Department of Computer Science  
Brunel University London, UK

May 2010 to Jul 2013

**Doctoral Researcher**  
Department of Computer Science  
Brunel University London, UK

May 2010 to Jul 2013

**Visiting Lecturer in Computer Science**  
Department of Computer Science  
Central Bedfordshire College, UK

Jan 2009 to Jan 2011

**Demonstrator - Technical Support**  
Department of Computer Science  
University of Bedfordshire, UK

Oct 2008 to Jun 2009

INDUSTRY  
EXPERIENCE

I worked in a number of software engineering roles ranging from Programmer, Software Engineer to IT Manager where I gained hands-on experience and skills in various technologies such as Java, Java EE, Java ME, php, HTML, XML, RDBMS, Oracle, Mysql, UML, Linux (Ubuntu), Android SDK, Netbeans, and Eclipse. I have also undergone a Linux Network Administration training program at the Turnkey IT training Institute, Sri Lanka.

POSTDOCTORAL FELLOWS	<b>Dr Nicholas Micallef</b>	February 2017 to present
	Daily supervision of his research in the area of usable security and privacy. Dr Micallef's research focuses on designing a bespoke fall-back authentication mechanism as an extra layer of security. I assist with brainstorming research direction, study design, ethics applications, research method, system implementation, and writing up results. Furthermore, I oversee his progress through weekly meetings and provide feedback on the research work.	
	<b>Dr Gaurav Misra</b>	July 2017 to July 2018
	Daily supervision of his research in the area of usable security and privacy. Dr Misra's research focuses on designing an anti-phishing awareness toolkit (i.e. User-Centred Security Education) to teach people how to thwart phishing attacks. I assist with brainstorming research direction, study design, ethics applications, research method, system implementation, and writing up results. Furthermore, I oversee his progress through weekly meetings and provide feedback on the research work.	
CURRENT STUDENT SUPERVISIONS	<b>Abdullah Abdulaziz N Alghunaim</b>	February 2020 to present
	(Co-supervisor: Professor Jill Slay, La Trobe University) <b>PhD Thesis Title:</b> Developing a framework to understand users' privacy and risk perceptions of sharing health information over the social media network.	
	<b>Chandima Perera</b>	February 2020 to present
	(Co-supervisor: Professor Jill Slay, La Trobe University) <b>PhD Thesis Title:</b> Investigating Privacy Preserving Technologies to Improve Data Sharing in Higher Education.	
	<b>Joseph Shams</b>	February 2020 to present
	(Primary supervisor: Associate Professor Jose Such, King's College London) <b>PhD Thesis Title:</b> Developing a framework for raising user awareness in IoT smart-home contexts	
	<b>Matheesha Fernando</b>	February 2019 to present
	(Co-supervisor: Professor Jill Slay, La Trobe University) <b>PhD Thesis Title:</b> Developing a threat model for organisations to understand vulnerabilities: A phishing threat prevention perspective.	
	<b>Tharindu Edirisinghe</b>	February 2019 to present
	(Co-supervisor: Professor Jill Slay, La Trobe University) <b>PhD Thesis Title:</b> Developing a framework for software developers to embed privacy into the software applications through GDPR.	
	<b>Tatyana Stojnic</b>	July 2019 to present
	(Co-supervisor: Dr Dinusha Vatsalan, CISRO's Data61) <b>MSc Thesis Title:</b> Understanding cyber-criminals' mindset of leveraging phishing attacks.	
	<b>Han Ayshan</b>	July 2016 to December 2019
	(Supervisor: Professor Judy Motion and Dr Paul Munro) <b>PhD Thesis Title:</b> Investigating how promotional and storytelling aspects of video game trailers encourage violence.	
	<b>Gitanjali Baral</b>	February 2018 to present
	Co-supervisor: Dr Daryl Essam, UNSW)	

**MPhil Thesis Title:** Integrating users' confidence into a gamified approach to thwart phishing attacks

COMPLETED  
STUDENT  
SUPERVISIONS

**Chamila Wijayarathna** July 2016 to January, 2020  
(External-supervisor: Dr Marthie Grobler, CSIRO's Data61)

**PhD Thesis Title:** Developing a systematic approach to evaluate the usability of security APIs.

**Awanthika Senarath** July 2016 to December 2019  
(External-supervisor: Dr Marthie Grobler, CSIRO's Data61)

**PhD Thesis Title:** Embedding Privacy into Software Systems: A Privacy Engineering Methodology for Data Minimisation.

**Peter Newman** July 2016 to present  
(Co-supervisor: Dr Dryl Essam, UNSW)

**MPhil Thesis Title:** Understanding How Social Media Application Design Artefacts Can Influence Cyberbullying Avoidance Behaviour

**Sadegh Torabi** Apr 2014 to Apr 2015  
(PhD student of Professor Konstantin Beznosov, ECE, UBC)

Daily supervision of thesis research in the area of usable security and privacy. The thesis attempts to develop privacy-preserving design guidelines for effective health related information sharing in online social networks. I assist with brainstorming thesis direction, study design, ethics applications, research method, system implementation, and writing up results. Furthermore, I oversee student progress through weekly meetings and provide feedback on the research work.

**Ahmed Mahfouz** Apr 2014 to Apr 2015  
(Visiting PhD student of Professor Konstantin Beznosov, ECE, UBC)

Daily supervision of thesis research in the area of usable security and privacy. The thesis investigates behavior of smartphone users in regards to the use of different applications on smartphone as well as smartphone (un)locking. I assist with brainstorming thesis direction, study design, ethics applications, research method, system implementation, and writing up results. Furthermore, I oversee student progress through weekly meetings and provide feedback on the research work.

**Ivan Cherapau** Apr 2014 to Apr 2015  
(Masters student of Professor Konstantin Beznosov, ECE, UBC)

Daily supervision of thesis research in the area of usable security and privacy. The thesis investigates the impact of Touch ID on users passwords selection for iPhones. I assist with brainstorming thesis direction, study design, ethics applications, research method, and writing up results. Furthermore, I oversee student progress through weekly meetings and provide feedback on the research work. I also provided feedback on his workshop presentations.

**Hootan Rashtian** Apr 2014 to Sept 2014  
(Masters student of Professor Konstantin Beznosov, ECE, UBC)

Daily supervision of thesis research in the area of usable security and privacy. The thesis investigated the key factors that should influence to accept friend requests from strangers on Facebook. I oversaw student progress on the research work and assisted in writing up results through weekly meetings. I provided feedback on his conference presentations. I also provided overall feedback on his thesis.

TEACHING  
EXPERIENCE

**University of New South Wales, Australia** October 2015 to Present  
**Teaching Synopsis:** In UNSW, I developed, updated, delivered and managed the curriculum from scratch for a number of courses (ZEIT3120 Programming for Security, ZEIT8036 Humans and Security and ZEIT8037 Cyber Security Risk Management).  
**Lecturer** - ZEIT8036 Humans and Security (Course Leader)  
**Lecturer** - ZEIT8037 Cyber Security Risk Management (Course Leader)  
**Lecturer** - ZEIT3120 Programming for Security (Course Leader)  
**Lecturer** - ZEIT8029 Network and Mobile Device Forensics (Course Convenor)  
**Lecturer** - Chief of Army Hons students (Course Convenor)

**Deakin University, Australia** July 2015 to October 2015  
**Sessional Lecturer** - SIT323 Practical Software Development

**CQUniversity Melbourne, Australia** July 2015 to October 2015  
**Sessional Lecturer** - COIS23002 Digital Forensics  
**Sessional Lecturer** - COIT20267 Computer Forensics  
**Sessional Lecturer** - COIT20236 Business Intelligence Management  
**Sessional Lecturer** - COIT20253 Business Intelligence using Big Data  
**Sessional Lecturer** - COIT20268 Responsive Web Design  
**Sessional Lecturer** - COIT20245 Introduction to Programming  
**Sessional Lecturer** - COIT29222 Programming Principles

**Victoria University, Australia** July 2015 to October 2015  
**Sessional Lecturer** - ECB1222 Web Design and Programming

**National School of Business Management affiliated to Plymouth University, UK** Jun 2015 to Jun 2015  
**Guest Lecturer** - Cyber Crime and Forensics Investigation (3rd Year Undergraduate Course)

**University of British Columbia, Canada** Apr 2015 to Jun 2015  
**Guest Lecturer** - Principles of Designing Secure Systems, ECE 412 (Computer Security)  
**Guest Lecturer** - Introduction to Cryptography, ECE 412 (Computer Security)  
**Guest Lecturer** - Usable Security, ECE 412 (Computer Security)

**Brunel University London, UK** Oct 2012 to Jul 2013  
**Lecturer** - Digital Media and Games (3rd Year Undergraduate Course)

**University of Bedfordshire, UK** Jan 2011 to Jul 2013  
**Lecturer and course leader** - Internet Development using Java EE (MSc)  
**Lecturer** - Applied Programming using Java and BlueJ (MSc)  
**Lecturer** - Distributed and Parallel Computing using Java and C (MSc)  
**Lecturer and course leader** - Online Database Applications (MSc)  
**Lecturer** - Managing, Creation and Communication Solutions (1st Year Undergraduate Course)

**Westminster University, UK** Jan 2011 to Apr 2011  
**Lecturer** - Web Development using php (2nd Year Undergraduate Course)

**Brunel University London, UK** May 2010 to Jul 2013  
**Graduate Teaching Assistant** - Data and Information (using SPSS - 1st Year Undergraduate Course)  
**Graduate Teaching Assistant** - Artificial Intelligence (using Object Oriented Programming in Java - 3rd Year Undergraduate Course)  
**Seminar Tutor** - Software Project Management (3rd Year Undergraduate Course)  
**Graduate Teaching Assistant** - Year 2 group project (using Android SDK and Eclipse IDE - 2nd Year Undergraduate Course)

**Central Bedfordshire College, UK**

Jan 2009 to Jul 2011

**Lecturer** - Introduction to Programming and Modelling (Foundation Degree)**Lecturer** - Introduction to Databases (Foundation Degree)**Lecturer** - Object Oriented Programming in Java (Higher National Diploma)**Lecturer** - Object Oriented Programming in VB.Net (Higher National Diploma)**Lecturer** - Developing Computer Games (Higher National Diploma)**Lecturer** - Advance Database Management System (Higher National Diploma)**Lecturer** - IT Project and Project Management (Higher National Diploma Project supervision)**University of Bedfordshire, UK**

Oct 2008 to Jun 2009

**Demonstrator-Technical Support** - Applied Programming (MSc)**Demonstrator-Technical Support** - Introduction to Programming (1st Year Undergraduate Course)

## GRANTS

**2020:** Secure Code Warrior & Singtel Optus Pty Limited (i.e. trading as Optus) - \$ 240,000 (June 2020 to June 2022). Research into developing a best-practice framework for implementing privacy into the Secure Code Warrior platform through gamification**2019:** Optus La Trobe Collaboration and Research Engagement (CaRE) Grants - \$ 5,000 (November 2019 to July 2020). Research into improving software developers' secure coding behaviour in the Secure Code Warrior Platform**2018:** CSIRO ON Prime 4: Cyber - Research into developing a threat model through a gamified approach to thwart phishing attacks. - \$ 2,000.**2018:** External research income from CSIRO Data61 - Research into Cybersecurity governance, policies and awareness - \$ 70,000.**2017:** Travel grant for 5G and IoT Innovation Show 2017 - \$ 800.**2017:** CSIRO ON Prime 3: Cyber, Team No. 467 - Collaborative Host-Network Anomaly Detection Framework for Internet of Things - \$ 5,000.**2017:** Rector's Start-Up Grant - \$ 10,000 (April 2017 to November 2017). Research into developing a gamified approach to teach people how to thwart phishing attacks.**2016:** Two international PhD full-scholarships (August 2016 to February 2020) from UNSW - \$ 336,176.**2016:** UNSW at Australian Defence Force Academy - Major Research Equipment and Infrastructure Initiative - \$ 42,200.**2016:** Travel grant (External income) for Cyber in Business Conference 2016 - \$ 800.**2016:** Scholarships (External income) for six (6) UNSW/ADFA students to attend the Cyber in Business Conference 2016 - \$ 3,000.**Tuition Fee Awards**

- PhD tuition fee award £9,750.00 (Brunel University London, UK) December 2012
- MSc tuition fee award £500.00 (University of Bedfordshire, UK) September 2008

## AWARDS

**2018:** **[Best Paper Award]** “Why developers cannot embed privacy into software systems? An empirical investigation”, 22nd International Conference on Evaluation and Assessment in Software Engineering 2018 (EASE’18). **[CORE/ERA ranking - A]**

**2017:** I have been awarded “Outstanding Reviewer Status” by the Journal of Parallel and Distributed Computing, Elsevier. [Impact Factor: 1.930]

**2016:** “Cyber Security Educator of the Year Award” - I was nominated for the Cyber Security Educator of the Year awarded by the Australian Information Security Association (AISA) in 2016.

**2016:** I have been awarded “Recognized Reviewer Status” by the International Journal of Computers in Human Behaviour, Elsevier. [Impact Factor: 1.412]

## BOOKS

1. Hameed, M. A., **Arachchilage, N.A.G.**, (2020), “A Conceptual Model for the Organisational Adoption of Information System Security Innovations”, In Joshi., R. C. and Gupta, B. B. (Ed.) Security, Privacy, and Forensics Issues in Big Data. *IGI Global*.
2. Senarath, A., **Arachchilage, N. A. G.**, (2020), “Unheard Story of Organizational Motivations Towards User Privacy”, In Joshi., R. C., Gupta, B. B. (Ed.) Security, Privacy, and Forensics Issues in Big Data. *IGI Global*.
3. **Arachchilage, N.A.G.**, Hameed, M. A., (2019), “Teaching Johnny to Thwart Phishing Attacks: Incorporating the Role of Self-Efficacy into a Game Application”, In Gupta, B. B. (Ed.) Computer and Cyber Security: Principles, Algorithm, Applications and Perspectives. *CRC Press, Taylor & Francis*.
4. **Arachchilage, N.A.G.**, (2016), “Serious Games for Cyber Security Education”, *LAMBERT Academic Publishing*, Germany, pp. 244, ISBN-13:978-3-659-85318-0.
5. Crane, S., Reinecke, P., Anderson, G., Arapinis, M., Baldwin, A., Collinson, M., **Arachchilage, N. A. G.**, Gill, M., Kouniga, G., Kehlmann, D., Mace, J., Martin, A., Namiluko, C., Ordean, M., Pym, D., Ritter, E., Ryan, M. and Shaw, A., (2015), “The Trust-Domains Guide: A Guide to Identifying, Modelling, and Establishing Trust Domains”, *HP Labs*, March 2015, pp. 1-168.

### [Ranking based on CORE/ACPHIS/ABDC/ERA]

## REFEREED

## JOURNAL

## PUBLICATIONS

1. Wijayarathna, C. Grobler, M. and **Arachchilage, N. A. G.**, (2020), “Software Developers need Help too! Developing a Methodology to Analyse Cognitive Dimension Based Feedback on Usability”, *Behaviour & Information Technology*, Taylor & Francis. **[Impact Factor: 1.429] [Rank - A]**
2. (Accepted) Jeyakumar, S. T. and **Arachchilage, N. A. G.**, (2020), “Understanding Phishers’ Strategies of Mimicking URLs to Leverage Phishing Attacks: A Machine Learning Approach”, *Security and Privacy*, Wiley.
3. (Accepted) Hameed, M. A., **Arachchilage, N.A.G.**, (2019), “The Effect of Self-efficacy on the Adoption of Information Systems Security Innovations: A Meta-analysis Assessment”, *Journal of Information Security and Applications*, Elsevier. **[Rank - B]**



4. Hameed, M. A. and **Arachchilage, N. A. G.**, (2019), "On the Impact of Perceived Vulnerability in the Adoption of Information Systems Security Innovations" *International Journal of Computer Network and Information Security (IJCNIS)*, Volume 11, 2019.
5. Senarath, A., **Arachchilage, N. A. G.**, (2019), "Will they use it or not? Investigating Software Developers' intention to follow Privacy Engineering Methodologies", *ACM Transactions on Privacy and Security (TOPS)*, ACM. [**Rank - A**]
6. Senarath, A., **Arachchilage, N. A. G.**, (2019), "A Data Minimization Model for Embedding Privacy into Software Systems", *Computers & Security*, Elsevier. [**Impact Factor: 3.062**] [**Rank - A**]
7. Wijayarathna, C., **Arachchilage, N. A. G.**, (2019), "Using cognitive dimensions to evaluate the usability of security APIs: An empirical investigation", *Information and Software Technology*, Elsevier. [**Impact Factor: 2.921**] [**Rank - A**]
8. Wijayarathna, C., **Arachchilage, N. A. G.**, (2019), "Why Johnny Can't Develop a Secure Application? A Usability Analysis of Java Secure Socket Extension API", *Computer & Security*, Elsevier. [**Impact Factor: 2.650**] [**Rank - A**]
9. Senarath, A., **Arachchilage, N. A. G.**, (2018), "Understanding user privacy expectations : A software developer's perspective", *Telematics and Informatics*, Elsevier. [**Impact Factor: 3.789**] [**Rank - C**] [**Q1 ranking**]
10. Micallef, N. and **Arachchilage, N. A. G.**, (2018), "Security Questions Education: Exploring Gamified Features and Functionalities", *Information and Computer Security*, Emerald. doi:10.1108/ICS-03-2018-0033 [**Rank - C**]
11. Hameed, M. A. and **Arachchilage, N. A. G.**, (2017), "A Conceptual Model for the Organisational Adoption of Information System Security Innovations" *International Journal of Security and Usability (IJSU)*, Volume 1, Issue 2, 2017.
12. Gupta, B. B., Agrawal, D. P., Yamaguchi, S., **Arachchilage, N. A. G.**, and Veluru, S., (2017), Editorial security, privacy, and forensics in the critical infrastructure: advances and future directions, *Annals of Telecommunications*, Volume 72, Issue 9-10, pp. 513-515, Springer. [**Impact Factor: 1.412**]
13. Gupta, B. B., **Arachchilage, N. A. G.**, Psannis, K. E., (2017), "Defending against Phishing Attacks: Taxonomy of Methods, Current Issues and Future Directions" *Telecommunication Systems*, Volume 65, Issue 1, May 2017, Springer. [**Impact Factor: 1.527**] [**Rank - C**]
14. Senarath, A. **Arachchilage, N. A. G.**, Gupta, B.B., (2016), "Security Strength Indicator in Fallback Authentication: Nudging Users for Better Answers in Secret Questions" *International Journal for Infonomics (IJI)*, Volume 9, Issue 4, December 2016. [**Rank - C**]
15. **Arachchilage, N. A. G.**, Love, S. and Beznosov, K., (2016), "Phishing threat avoidance behaviour: An empirical investigation" *Computers in Human Behavior*, Volume 60, pp. 185-197, Elsevier. [**Impact Factor: 3.536**] [**Rank - B**] [**Q1 ranking**]
16. **Arachchilage, N. A. G.**, Tarhini, A. and Love, S., (2015), "Designing a mobile game to thwarts malicious IT threats: A phishing threat avoidance perspective" *International Journal for Infonomics (IJI)*, Volume 8(3/4), September 2015, ISSN 1742-4712 (online), Infonomics. [**Rank - C**]

17. Tarhini, A., **Arachchilage, N. A. G.**, Aldin, L. and Masa'deh, R., (2015). A Critical Review of Theories and Models of Technology Adoption and Acceptance in Information System Research. *International Journal of Technology Diffusion*, IGI Global.
18. **Arachchilage, N. A. G.**, and Love, S., (2014), "Security awareness of computer users: A phishing threat avoidance perspective" *Computers in Human Behavior*, Volume 38(1), September 2014, pp. 304-312, ISSN 0747-5632, Elsevier. [**Impact Factor: 3.536**] [**Rank - B**] [**Q1 ranking**]
19. **Arachchilage, N. A. G.**, Namiluko, C., Martin, A., (2014), "Developing a Trust Domain Taxonomy for Securely Sharing Information Among Others" *International Journal for Information Security Research (IJISR)*, Volume 3(1/2), ISSN 2042-4639 (Online), Infonomics Society, pp. 364-373.
20. **Arachchilage, N. A. G.**, Love, S. and Maple, C., (2013), "Can a mobile game teach computer users to thwart phishing attacks?", *International Journal for Infonomics (IJI)*, Volume 6, Issues 3/4, ISSN: 1742 4712, pp. 720-730. [**Rank - C**]
21. **Arachchilage, N. A. G.**, Lauria, S. and Love, S., (2013), "Twitter controls the household heating system", *International Journal of Sustainable Energy Development (IJSED)*, Volume 2, Issues 3/4, pp. 101-104.
22. **Arachchilage, N. A. G.**, and Love, S., (2013), "A game design framework for avoiding phishing attacks", *Computers in Human Behavior*, Volume 29, Issue 3, pp.706-714, Elsevier. [**Impact Factor: 3.536**] [**Rank - B**] [**Q1 ranking**]
23. **Arachchilage, N. A. G.**, Love, S. and Scott, M., (2012), "Designing a mobile game to teach conceptual knowledge of avoiding phishing attacks", *International Journal for e-Learning Security (IJeLS)*, Volume 2, Issue 1/2, pp. 127 -132, ISBN: 978-1-61284-148-9.
24. **Arachchilage, N. A. G.**, and Cole, M., (2011), "Designing a mobile game for home computer users to protect against phishing attacks", *International Journal for e-Learning Security (IJeLS)*, Volume 1, Issue 1/2, pp. 19 -26, ISBN: 978-1-61284-148-9.

[Ranking based on CORE/ERA]

REFEREED  
CONFERENCE AND  
WORKSHOP  
PUBLICATIONS

1. Fernando, M., **Arachchilage, N. A. G.**, (2019), "Why Johnny can't rely on anti-phishing educational interventions to protect himself against contemporary phishing attacks?", *The 30th Australasian Conference on Information Systems*, on 9th - 11th December, 2019, Perth, Australia. [**Rank - A**]
2. Micallef, N. and **Arachchilage, N. A. G.**, (2019), "That's Not Me! Designing Fictitious Profiles to Answer Security Questions", *15th Symposium on Usability, Privacy, and Security (SOUPS '19)*, USENIX, on August 11 - 12, 2019, Santa Clara, CA, USA. [**Rank - B**]
3. Wijayarathna, C., **Arachchilage, N. A. G.**, (2019), "An Empirical Usability Analysis of the Google Authentication API", *In Proceedings of the 23rd International Conference on Evaluation and Assessment in Software Engineering 2019 (EASE'19)*. ACM, New York, NY, USA. [**Rank - A**]
4. Dixon, M., **Arachchilage, N. A. G.**, Nicholson, J., (2019). Engaging Users with Educational Games: The Case of Phishing. In *CHI Conference on Human Factors in Computing Systems Proceedings (CHI 2019)*, May 4-9, 2019, Glasgow, Scotland Uk. ACM, New York, NY, USA, 6 pages. [**Rank - A\***]

5. Senarath, A., **Arachchilage, N. A. G.**, Grobler, M., (2019), “A model for system developers to measure the perceived privacy risk of users”, *52nd Hawaii International Conference on System Sciences (HICSS)*, January 8-10, Grand Wailea, Maui, Hawaii, USA. [Rank - A]
6. Wijayarathna, C., **Arachchilage, N. A. G.**, (2019),, “Fighting Against XSS Attacks. A Usability Evaluation of OWASP ESAPI Output Encoding”, *52nd Hawaii International Conference on System Sciences (HICSS)*, January 8-10, Grand Wailea, Maui, Hawaii, USA. [Rank - A]
7. Wijayarathna, C., **Arachchilage, N. A. G.**, (2018), “A methodology to Evaluate the Usability of Security APIs”, *IEEE International Conference on Information and Automation for Sustainability (ICIAfS)*. IEEE, 21-22 December 2018, Colombo, Sri Lanka.
8. Baral, G, **Arachchilage, N. A. G.**, (2018), “Building Confidence not to be Phished through a Gamified Approach: Conceptualising User’s Self-Efficacy in Phishing Threat Avoidance Behaviour”, *9th International Conferences on Cyber Security and Communication Systems (ICCSCS)*. Springer, 10 - 12, December 2018, Melbourne, Australia.
9. Hameed, M. A. and **Arachchilage, N. A. G.**, (2018), “A Model for the Adoption Process of Information System Security Innovations in Organisations: A Theoretical Perspective”, *17th Australian Cyber Warfare Conference (CWAR) Conference*, October 10-11th, 2018, Melbourne, Victoria, Australia.
10. Wijayarathna, C., **Arachchilage, N. A. G.**, (2018), “Am I Responsible for End-User’s Security? A Programmer’s Perspective”, *The 4th Workshop on Security Information Workers (WSIW), 14th Symposium on Usability, Privacy, and Security (SOUPS ’18)*, USENIX, on August 12 - 14, 2018, Baltimore, MD, USA. [Rank - B]
11. Senarath, A., **Arachchilage, N. A. G.**, (2018), “Understanding Software Developers’ Approach towards Implementing Data Minimization”, *The 4th Workshop on Security Information Workers (WSIW), 14th Symposium on Usability, Privacy, and Security (SOUPS ’18)*, USENIX, on August 12 - 14, 2018, Baltimore, MD, USA. [Rank - B]
12. Wijayarathna, C., **Arachchilage, N. A. G.**, (2018), “Why Johnny Can’t Store Passwords Securely? A Usability Evaluation of Bouncycastle Password Hashing”, *In Proceedings of the 22nd International Conference on Evaluation and Assessment in Software Engineering 2018 (EASE’18)*. ACM, New York, NY, USA, 211-216. DOI: <https://doi.org/10.1145/3210459.3210484> [Rank - A]
13. Senarath, A., **Arachchilage, N. A. G.**, (2018), “Why developers cannot embed privacy into software systems? An empirical investigation”, *In Proceedings of the 22nd International Conference on Evaluation and Assessment in Software Engineering 2018 (EASE’18)*. ACM, New York, NY, USA, 211-216. DOI: <https://doi.org/10.1145/3210459.3210484> [Rank - A] [Best Paper Award]
14. Micallef, N. and **Arachchilage, N. A. G.**, (2017), “Involving Users in the Design of a Serious Game for Security Questions Education”, *International Symposium on Human Aspects of Information Security & Assurance (HAISA 2017)*, Adelaide, Australia.
15. Misra, G., **Arachchilage, N. A. G.** and Berkovsky, S., (2017), “Phish Phinder: Gamified Approach to Enhance User Confidence in Mitigating Phishing Attacks”, *International Symposium on Human Aspects of Information Security & Assurance (HAISA 2017)*, Adelaide, Australia.

16. Senarath, A., **Arachchilage, N. A. G.**, (2017), "Organizational Motivations towards End User Privacy", *The 28th Australasian Conference on Information Systems*, on 4th - 6th December, 2017, Tasmania, Australia. [**CORE/ERA ranking - A**]
17. Micallef, N. and **Arachchilage, N. A. G.**, (2017), "A Model for Enhancing Human Behaviour with Security Questions: A Theoretical Perspective", *The 28th Australasian Conference on Information Systems*, on 4th - 6th December, 2017, Tasmania, Australia. [**Rank - A**]
18. Kulathunga, K. S. D. A., Radith, W. M. N., Kumari, B. R. K. S., Liyanaarachchi, I. H., Edirisinghe, E. A. T. D., Kodagoda, and **Arachchilage, N. A. G.**, (2017), "Open source SOA based middleware framework for classified based web development", *2017 National Information Technology Conference (NITC)*, (pp. 6-11). IEEE.
19. Micallef, N. and **Arachchilage, N. A. G.**, (2017), "A Serious Game Design: Nudging Users' Memorability of Security Questions", *The 28th Australasian Conference on Information Systems*, on 4th - 6th December, 2017, Tasmania, Australia. [**Rank - A**]
20. Micallef, N. and **Arachchilage, N. A. G.**, (2017), "Changing users' security behaviour towards security questions: A game based learning approach" *The annual Military Communications and Information Systems (MilCIS) Conference*, on 14th - 16th November, 2017, Canberra, Australia.
21. Micallef, N. and **Arachchilage, N. A. G.**, (2017), "A Gamified Approach to Improve Users' Memorability of Fallback Authentication." *Workshop on Who Are You?! Adventures in Authentication (WAY 2017), Thirteenth Symposium on Usable Privacy and Security (SOUPS)*, July 12-14, 2017, Santa Clara, CA, USA. [**Rank - B**]
22. **Arachchilage, N. A. G.**, (2017), "Integrating "self-efficacy" into a gamified approach to thwart phishing attacks", *5th International Conference on Cybercrime and Computer Forensics (ICCCF)*, IEEE, p-6, Sofitel Gold Coast Broadbeach, Australia, 16-18 July 2017.
23. Wijayarathna, C., **Arachchilage, N. A. G.**, Slay, J., (2017), "Using Cognitive Dimensions Questionnaire to Evaluate the Usability of Security APIs", *28th Annual Workshop of the Psychology of Programming Interest Group (PPIG)*, PPIG, p-6, Delft, Netherlands, 1-3 July 2017. [**Rank - B**]
24. Senarath, A., **Arachchilage, N. A. G.**, Slay, J., (2017), "Designing Privacy for You: A Systematic Approach for User-Centric Privacy based on Unified Process", *19th International Conference on Human-Computer Interaction (HCI International)*, Springer, p-12, Vancouver, Canada, 9 - 14 July 2017.
25. Wijayarathna, C., **Arachchilage, N. A. G.**, Slay, J., (2017), "Cognitive Dimensions to Evaluate Usability of Security APIs", *19th International Conference on Human-Computer Interaction (HCI International)*, Springer, p-12, Vancouver, Canada, 9 - 14 July 2017.
26. Hameed, M. A. and **Arachchilage, N. A. G.**, (2016), "A Model for the Adoption Process of Information System Security Innovations in Organisations: A Theoretical Perspective", *27th Australasian Conference on Information Systems (ACIS)*, University of Wollongong, Australia, 5th-7th December 2016. [**Rank - A**]

27. Cherapau, I., Muslukhov, I., **Arachchilage, N. A. G.** and Beznosov, K., (2015), "An impact of Touch ID on users' passwords selection for iPhones", *11th Symposium on Usability, Privacy, and Security (SOUPS 2015), USENIX, on July 22-24, 2015, Ottawa, Canada*. [Acceptance rate: 22/93 (24%)] [Rank - B]
28. **Arachchilage, N. A. G.**, and Martin, A., (2014), "A Trust Domains Taxonomy for Securely Sharing Information: A Preliminary Investigation", *International Symposium on Human Aspects of Information Security & Assurance (HAISA 2014)*, pp. 53-68, Plymouth, United Kingdom.
29. Scott, M., Ghinea, G. and **Arachchilage, N. A. G.**, (2014), "Assessing the Role of Conceptual Knowledge in an Anti-Phishing Educational Game", *14th IEEE International Conference on Advanced Learning Technologies*, pp. 218-218. [Rank - B]
30. **Arachchilage, N. A. G.**, Namiluko, C., Martin, A., (2013), "A Taxonomy for Securely Sharing Information Among Others in a Trust Domain", *International Conference for Internet Technology and Secured Transactions (ICITST-2013)*, IEEE, London, United Kingdom, pp. 296-304.
31. **Arachchilage, N. A. G.**, and Cole, M., (2011), "Designing a mobile game for home computer users to prevent from phishing attacks", *International Conference on Information Society (i-Society 2011, In Proc. IEEE)* on 27- 29th June 2011, London, United Kingdom, pp.485-489, ISBN: 978-0-9564263-8-3.

#### POSTERS

1. Edirisinghe, E. A. T. D., **Arachchilage, N. A. G.** (2019), "A Reference Framework for Incorporating GDPR into Social Login", *28th USENIX Security Symposium on August 14, 2019, Santa Clara, USA*. [Rank - A]
2. **Arachchilage, N. A. G.**, Flechais, I. and Beznosov, K., (2014), "A Game Storyboard Design for Avoiding Phishing Attacks", *10th Symposium on Usability, Privacy, and Security (SOUPS 2014) on July 9-12, 2014, Facebook Headquarters, Menlo Park, California, USA*. [Rank - B]
3. **Arachchilage, N. A. G.**, (2015), "User-Centred Security Education: A Game Design to Thwart Phishing Attacks", *International Conference: Redefining the R&D Needs for Australian Cyber Security on November 16, 2015, University of New South Wales at the Australian Defence Force Academy, Canberra, Australia*.

#### MAGAZINE ARTICLES

1. **Arachchilage, N. A. G.**, (2013), "Gaming for Security", *iTNOW*, The Magazine for the IT Professional, British Computer Society, The Chartered Institute for IT, March 2013, Volume 55, Issue 1, pp. 32-33.

#### THESIS

1. **Arachchilage, N. A. G.**, "Security awareness of computer users: A game based learning approach", PhD Thesis, *School of Information Systems, Computing and Mathematics, Brunel University London*, UK, 2013.

**Brief Synopsis of Research:** My research focuses on developing a game design framework to protect computer users against phishing attacks. The proposed game design framework through an empirical investigation aimed to enhance the user's avoidance behaviour through motivation to thwart phishing attacks. The elements of the framework were used to design and develop a mobile game prototype. Finally, the research will benefit from evaluating the game design framework through the mobile game prototype. During my PhD I have also led lectures, seminars and supervised undergraduates in the laboratory and taken a course on "Graduate Learning and Teaching Programme".

UNDER REVIEW	<ol style="list-style-type: none"> <li>1. Micallef, N. and <b>Arachchilage, N. A. G.</b>, (2020), “A Framework to Enhance Human Behaviour when Answering Security Questions” <i>Computers in Human Behavior</i>, Elsevier. [<b>Impact Factor: 3.435</b>] [<b>Q1 ranking</b>]</li> <li>2. Vatsalan, D., Jeyakumar, S. T. and <b>Arachchilage, N. A. G.</b> (2020). “Hold On! Your emotion and behaviour when falling for fake news in social media”, <i>IEEE Security &amp; Privacy</i>. [<b>Rank - B</b>]</li> <li>3. Jeyakumar, S. T., Vatsalan, D. and <b>Arachchilage, N. A. G.</b> (2020). “Crafting Fake News: Understanding attackers’ mindset through their strategies”, <i>IEEE Internet Computing</i>. [<b>Rank - B</b>]</li> <li>4. Stojnic, T. and Vatsalan, D. and <b>Arachchilage, N. A. G.</b> (2020). “Understanding Cybercriminals’ Mindset of Leveraging Phish-ing Attacks”. <i>Cognitive Computing</i>, Elsevier.</li> </ol>
WORK IN PROGRESS	<ol style="list-style-type: none"> <li>1. Jeyakumar, S. T. and Vatsalan, D. and <b>Arachchilage, N. A. G.</b> (2019). “Investigating behaviroal features that nudge people to click on fake news in social media”. <i>World Wide Web Conference 2020</i>. ACM. [<b>Rank - A*</b>]</li> <li>2. Stojnic, T. and Vatsalan, D. and <b>Arachchilage, N. A. G.</b> (2019). “A threat model for investigating cybercriminals’ behaviour of leveraging phishing attacks”. <i>IEEE Security and Privacy</i>. [<b>Rank - B</b>]</li> <li>3. Shams, J., <b>Arachchilage, N. A. G.</b> and Such. J. (2020). “Vision: A framework for raising user awareness in IoT smart-home contexts” <i>IEEE EuroUSEC</i>, IEEE.</li> <li>4. <b>Arachchilage, N. A. G.</b> and Abdulhameed. M. (2020). “Vision: A game design framework for enhancing software developers’ securecoding behaviour” <i>IEEE EuroUSEC</i>, IEEE.</li> <li>5. Abdulrahman, A., <b>Arachchilage, N. A. G.</b>, (2020), “Why Developers Cannot Implement Privacy into Software Systems Complying with General Data Protection Regulation (GDPR)?”, <i>The 54th Hawaii International Conference on System Sciences (HICSS)</i>, HICSS. [<b>Rank - A</b>]</li> <li>6. Micallef, N. and <b>Arachchilage, N. A. G.</b>, (2020), “A Framework to Enhance Human Behaviour when Answering Security Questions”. <i>The 54th Hawaii International Conference on System Sciences (HICSS)</i>, HICSS. [<b>Rank - A</b>]</li> </ol>
THESIS EXAMINATION	<p><b>Doctor of Philosophy (2019):</b> “Requirements for the Acceptance of Mobile Learning Technology for Smart Devices at Higher Education Institutions in Saudi Arabia from an End User’s Perspective”, <b>Alaa Badwelan</b>, Griffith University.</p> <p><b>Doctor of Philosophy (2018):</b> “The Influence of Expected Benefits and Perceived Costs on the Performance of Protective Behaviours Against Email Phishing Threats.”, <b>Samantha L. K. Bax</b>, Murdoch University.</p>
PROFESSIONAL QUALIFICATIONS AND MEMBERSHIPS	<p>Member of the Institute of Electrical and Electronics Engineers (MIEEE: 93941054) May 2017 to present</p> <p>Member of the Australian Computer Society (MACS: 4142261) July 2017 to present</p>

Member of Association for Computing Machinery (MACM: 4591490)  
Jun 2016 to present

Member of British Computer Society (MBCS: 990216619)  
Apr 2008 to April 2013

Sun Certified Programmer for the Java 2 Platform 1.4 (SCJP 1.4)  
Feb 2006 to present

TRAINING AND  
DEVELOPMENT  
UNDERTAKEN

Workshop on Foundations of University Learning and Teaching 2017 for Lecturers,  
University of New South Wales (UNSW) Mar 27, Apr 10, Apr 24, May 8, May 29,  
2017

Workshop on Voice Skills for Lecturers, Brunel University London July 11, 2012

Workshop on Graduate Learning and Teaching Programme (GLTP), Jan 23, Feb 7,  
Brunel University London Feb 13, Feb 22, Feb 29, Mar 6, and Mar 13, 2012

Research Methods Course, Department of Computer Science, Brunel University London Oct 2010 to Jul 2011

INVITED TALKS

**Risk Management Institute of Australasia (RMIA) 2020:** I am an invited speaker at the Risk Management Institute of Australasia (RMIA) to give a talk about “Gone Phishing: Cyber Security, Resilience and the Human Factor”, Sri Lanka Police Headquarters — Thursday, 28 May 2020

**Sci+Tech in the City by CSIRO’s Data61 2020:** I am an invited speaker at the Sci+Tech in the City by CSIRO’s Data61 to give a talk about “Human centred security and privacy”, CSIRO’s Data61 Demo Lab — Thursday, 19 March 2020

**Technology Risk Management Summit 2020:** I am an invited speaker at the Technology Risk Management Summit to give a talk about “Developing a threat model for organisations to understand and identify potential risks”, Sir Stamford Circular Quay, Sydney, NSW — 09 - 11 March 2020

**Sri Lanka Police 2019:** I am an invited speaker at the Sri Lanka Police headquarters to give a talk about “Developing a cybersecurity roadmap in Sri Lanka”, Sri Lanka Police Headquarters — Friday, 3 January 2020

**Sri Lanka Police:** I am an invited speaker at the Sri Lanka Police headquarters to give a talk about “Developing a cybersecurity roadmap in Sri Lanka”, Sri Lanka Police Headquarters — Friday, 3 January 2020

**IEEE Sri Lanka Section Congress 2019:** I am invited as a “Keynote Speaker” at the IEEE Sri Lanka Section Congress 2019 to give a talk about “Cybersecurity and cybercrime?”, Wayamba University of Sri Lanka — Saturday, 21 December 2019

**University of Jaffna 2019:** I am invited as a “Keynote Speaker” at the University of Jaffna, Sri Lanka to give a talk about “Software Developers need help too! Developing a methodology for software engineers to evaluate the usability of security APIs?”, Sri Lanka — Saturday, 7 December 2019

**Sysco Labs 2019:** I am an invited speaker at the HSBC Sri Lanka to talk about “Why Johnny still finds usable security and privacy engineering so hard?”, Sri Lanka — Tuesday, 22 January 2019

**HSBC 2019:** I am an invited speaker at the HSBC Sri Lanka to talk about “Why Johnny still finds usable security and privacy engineering so hard?”, Sri Lanka — Thursday, 17 January 2019

**University of Jaffna 2019:** I am an invited speaker at the University of Jaffna, Sri Lanka to talk about “Why Johnny still finds usable security and privacy engineering so hard?”, Sri Lanka — Saturday, 12 January 2019

**ALCSI 2018:** I am an invited speaker at the Australasian Lab for Cyber Security Ideas to talk about “Defining the Cyber Security Skills Gap:”, Adelaide — Thursday - Friday, 29 - 30 November 2018

**Cyber Security for the Public Sector 2018:** I am an invited to speaker at 8th Annual Cyber Security for the Public Sector Summit to about “Developing a Threat Model for Organisations through a Gamified Approach to Thwart Phishing Attacks”, Sydney — Tuesday - Wednesday, 26 - 27 November 2018

**OpenGov 2018:** I am an invited to deliver a keynote speech at OpenGov 2018: Malaysia Public Sector CIO Convex “Need For A Paradigm Shift In Cybersecurity”, Malaysia — Tuesday - Wednesday, 13 - 14 November 2018

**DEV DAY 2018:** I am an invited speaker at Developer Day conference to talk about “Why Johnny still finds usable security and privacy engineering so hard?”, Sri Lanka — Wednesday, 6 November 2018

**12th Annual Technology in Government Conference:** I am an invited speaker to talk about “PANEL DISCUSSION: Cyber Human Factors - Why employees are still a security risk”, Canberra — Tuesday, 7 August 2018

**EduTECH Tertiary Ed IT Leaders Congress:** I am an invited speaker to give a talk about “Human Factors for Cyber Security: How universities can reduce exposure to cyber threats”, Sydney — Friday, 8 June 2018

**La Trobe University:** I am invited speaker to give a talk about “Why Johnny still finds usable security and privacy so hard?”, Melbourne — Monday, 28 June 2018

**Defence Cyber Research Networking Forum (DST and Data61):** I have been selected to speak at the Defence Cyber Research Networking Forum at the National Wine Centre, Adelaide — Tuesday, 28 November 2017

**Australian Computer Society (ACS):** I am an invited speaker (represented ACCS/SEIT at UNSW Canberra) for the Workshop on Usable Security and Privacy Engineering, which is organised by ACS Canberra — Tuesday, 24 October 2017

**Department of Human Services:** I am an invited speaker (represented ACCS/SEIT at UNSW Canberra) for Technology Innovation Directorate - CTO Group at the Department of Human Services, where I talked about “Human Factors in Cyber Security” — Friday, 8 September 2017



**Office of the Government CISO in Australia:** I am invited speaker (represented ACCS/SEIT at UNSW Canberra) to talk about about “Human Factors in Cyber Security: A gamified approach for cyber security education” to an industry audience at the Office of the Government Chief Information Security Officer (GCISO), Sydney. The audience consisted of representatives from major industries in Australia including Data 61. — Thursday, 17 August 2017

**Australian Computer Society (ACS) Annual Conference:** I am an invited speaker (represented ACCS/SEIT at UNSW Canberra) for the ACS Annual Conference, where I talked about “Human Factors in Cyber Security” — Tuesday, 15 August 2017

**CSO Live Webinar — Email Fraud: Why you can’t trust your emails anymore:** I am an invited speaker (represented ACCS/SEIT at UNSW Canberra) for the CSO Live Webinar, sponsored by Proofpoint in Australia, where I talked about “Business Email Compromise” — Tuesday, 13 June 2017

**ERM for Government 2017 in Australia:** I am an invited speaker (represented ACCS/SEIT at UNSW Canberra) for the 11th annual ERM for Government 2017 in Australia, where I talked about “Leveraging Cyber Enterprise Risk Management to Mitigate Risk of Cyber-Attacks” — Wednesday, 26 April 2017

**Cyber in Business Conference, Australia:** I am a panelist (represented ACCS/SEIT at UNSW Canberra) at the University Leaders Panel — 1 December 2016

**GovInnovate: Digital Government Conference, Australia:** I am panelist (represented ACCS/SEIT at UNSW Canberra) at “Human factors in cyber security and thwarting phishing attacks” — 14 - 16 November 2016

**Government Digital Transformation Conference, Australia:** I am panelist (represented ACCS/SEIT at UNSW Canberra) at “Human factors in cyber security” — 24 - 25 October 2016

**Australian Information Security Association (AISA) National Conference, Australia:** I am panelist (represented ACCS/SEIT at UNSW Canberra) at “National cyber security education” — 18 - 20 October 2016

**Australasian Simulation Congress 2016, Australia:** I was panelist (represented ACCS/SEIT at UNSW Canberra) “It’s Not Just Entertainment, The Many Faces of Games in Society” — 29 September 2016

**Sydney Financial Information and Technology Summit, Australia:** I was a panelist (represented ACCS/SEIT at UNSW Canberra) at “Getting ahead of Cybercrime” — 17 August 2016

**ANZ bank, Australia:** I was invited to deliver a talk (represented ACCS/SEIT at UNSW Canberra) about “Serious Games for Cyber Security Education” to an industry audience at ANZ bank, Melbourne. The audience consisted of representatives from major industries in Australia including Telstra, NBN, NAB, Auspost, Sportsbet, Medibank and MCG. — Monday, 11 January 2016

**ERM for Government 2016 in Australia:** I am an invited speaker (represented ACCS/SEIT at UNSW Canberra) for the 10th annual ERM for Government 2016 in Australia, where I talked about “Increasing awareness and education around cyber security” — Friday, 29 April 2016

MEDIA  
CONTRIBUTIONS

**The British Council, Sri Lanka:** I am an invited speaker (followed by an interview) at the Education UK unit at the British Council, Sri Lanka, where I talked about “How to conduct research in the UK” (over 200 participants), 2011

**ABC News Online/The Conversation:** I’ve written an article to ABC News/The Conversation on “Fingerprint login should be a secure defence for our data, but most of us don’t use it properly” — 4 December 2019

**Byte Into IT on 3RRR:** I was involved in a live discussion on “Victoria state has become the target of cybercriminals” at 3RRR Radio.— 30 October 2019

**ABC National Radio:** I was involved in a pre-recorded discussion on “Recent ransomware attacks and the Victoria state has become the target of cybercriminals” at ABC National Radio.— 19 October 2019

**SBS Radio:** I was involved in a live discussion and interview on “The threat of cyber crime in Australia”. — 16 October 2019

**Fairfax:** My opinion piece (both online and regional newspapers) on “How to avoid falling into the phishing trap” was published on 15 October 2019 in over 100 titles across NSW, Victoria and Tasmania in Australia.— 15 October 2019

**SBS Radio:** I was involved in a live discussion and interview on “Almost one in three Australian adults were affected by cybercrime last year”. — 8 October 2019

**ABC ND Radio:** I was involved in a live discussion on “Ransomware attack on hospitals across Victoria” with Mandy at ABC National’s Drive Radio .— 8 October 2019

**ABC Radio:** I was involved in a live discussion on “Hospital cyber attack: Hackers target hospitals across Victoria” with Sandra Moon at ABC Radio Broun Murray.— 8 October 2019

**ACS Information Age:** I was interviewed by ACS Information Age to discuss “Cyberattack hits regional Victoria hospitals: Patient records and booking system shut down.” with ACS Information Age .— 2 October 2019

**2GB 873AM:** I was involved in a live discussion on “There’s a push for police to have the power to crack encryption apps – but what does that mean?” with 2GB 873AM Radio.— 24 November 2018

**SBS Radio:** I was involved in a live discussion on “Best practices for Smartphone Security” with SBS Radio Melbourne.— 2 November 2017

**SBS Radio:** I was involved in a live discussion on “Why cybercrimes are increasing and what we should do to protect ourselves from Cybercrimes?” with SBS Radio in Melbourne.— 12 October 2017

**“ABC Breakfast program” with Joseph Thomsen on ABC Radio:** I was involved in a live discussion on “The risky things that we post on social media, that we may not have realised is risky”. “ABC Breakfast” is typically a free-flowing, conversational

program on ABC Goulburn Murray Radio.— 25 September 2017

**ABC News Online:** I was involved in a discussion on “Your same-sex marriage survey form and other risky things we post on social media” — 22 September 2019

**ABC News:** I spoke to ABC News (Alle McMahon) about risks of posting photos on social media, (& not risks you’d assume). — 22 September 2017

**Cyber security - Strengthening the weakest link in the supply chain:** I was interviewed by Prime Creative Media (Editor - Logistics and Materials Handling).— 5 September 2017

**Cyber Security in Business:** I was interviewed by Business Pulse Magazine at Chamber of Commerce and Industry Western Australia.— 11 August 2017

**Daily show on Radio 2SER 107.3:** I was involved in a live discussion on “The Petya ransomware attack”. “Daily Show” is typically a free-flowing, conversational program on Radio 2SER 107.3.— 29 June 2017

**“ABC NEWS Afternoons” with Mandy Presland on ABC NEWS Radio:** I was involved in a live discussion on “Phishing Scams”. “ABC NEWS Afternoons” is typically a free-flowing, conversational program on ABC NEWS Radio.— 19 June 2017

**Daily show on Radio 2SER 107.3:** I was involved in a live discussion on “Attacks (i.e. “WannaCry” Ransomware attack) across the world spark Cyber Security”. “Daily Show” is typically a free-flowing, conversational program on Radio 2SER 107.3.— 15 May 2017

**Panorama show on SYN Radio 90.7 FM:** I was involved in a live discussion on “WannaCry ransomware (cyber) attack and what we can do about it in Australia”. “Panorama” is SYN’s flagship news and current affairs show, covering news, politics and culture. — 15 May 2017

**Daily show on Radio 2SER 107.3:** I was involved in a live discussion on “How Do The New Data Notification Laws Affect You?”. “Daily Show” is typically a free-flowing, conversational program on Radio 2SER 107.3.— 16 February 2017

**The Sydney Morning Herald and UNSW TV:** In the age of phishing and hacking, here are three steps to help you become a cybersecurity expert, Dr Nalin Asanka Gamagedara Arachchilage. — 28 December 2016

**“Cyber in Business” - Addressing the cyber skills shortage:** I was involved in a panel discussion on addressing the cyber skills shortage in Australia. “Cyber in Business conference” in Melbourne, Australia.— 09 December 2016

**“Sunday Live” with Janine Perrett on Sky News:** I was involved in a panel discussion (Sky News studio in Parliament House in Canberra) on cyber security in Australia. “Sunday Live” is typically a free-flowing, conversational program on Sky News.— 30 October 2016

**Insurance tracker apps - good for the consumer?:** I was interviewed by Choice, Australia. CHOICE is the consumer advocate that provides Australians with information and advice, free from commercial bias.— 6 October 2016

**How safe are you from hackers?:** I was interviewed by Guardian labs, Australia. The article was sponsored by Intel Corporation, Australia — 29 September 2016

**eLife Magazine:** I was interviewed by eLife Magazine at the University of Bedfordshire, UK, 2011

**Reviewer:** ACM CHI: ACM CHI Conference on Human Factors in Computing Systems [CORE/ERA ranking - A\*] 2019

**Publicity Co-Chair:** The 16th Symposium on Usable Privacy and Security (SOUPS) Co-located with USENIX Security '20 in Boston, MA, USA 2019

**Publicity Co-Chair:** The 15th Symposium on Usable Privacy and Security (SOUPS) Co-located with USENIX Security '19 in Santa Clara, California, USA 2019

**Associate Editor:** Frontiers in Psychology, 2019 - [Q1 ranking] 2019

**Poster Chair:** 23rd International Conference on Evaluation and Assessment in Software Engineering 2019 (EASE'19), IT University of Copenhagen, April 15-17, 2019 - [CORE/ERA ranking - A] 2019

**Reviewer:** ACM CHI: ACM CHI Conference on Human Factors in Computing Systems [CORE/ERA ranking - A\*] 2018

**Publicity Co-Chair:** The 15th Symposium on Usable Privacy and Security (SOUPS) Co-located with USENIX Security '19 in Santa Clara, California, USA 2019

**Associate Chair:** CHI 2019 Late Breaking Work in Glasgow, UK - [CORE/ERA ranking - A\*] 2019

**Technical Papers Committee member:** The 15th Symposium on Usable Privacy and Security (SOUPS) Co-located with USENIX Security '19 in Santa Clara, California, USA - 2019

**Reviewer:** The 15th Symposium on Usable Privacy and Security (SOUPS) Co-located with USENIX Security '19 [CORE/ERA ranking - B] 2019

**Reviewer:** International Conference on Information Systems (ICIS) [CORE/ERA ranking - A\*] 2018

**Reviewer:** The 14th Symposium on Usable Privacy and Security (SOUPS) Co-located with USENIX Security '18 [CORE/ERA ranking - B] 2018

**Reviewer:** 4th Workshop on Security Information Workers (WSIW) August 12, 2018 - Baltimore, MD, USA, colocated with the 14th Symposium on Usable Privacy and Security (SOUPS) Co-located with USENIX Security '18 [CORE/ERA ranking - B] 2018

**Technical Papers Committee member:** 4th Workshop on Security Information Workers (WSIW) August 12, 2018 - Baltimore, MD, USA, colocated with the 14th Symposium on Usable Privacy and Security (SOUPS) Co-located with USENIX Security '18 - 2018

**Technical Papers Committee member:** The 14th Symposium on Usable Privacy and Security (SOUPS) Co-located with USENIX Security '18 in Baltimore, MD, USA — 12-14 August 2018 - 2018

**Conference Organizer:** I participated in organizing (together with Professor Greg Austin at UNSW) the 2017 International Conference on Cyber Security Education at UNSW @ ADFA. — 27 November 2017, Canberra 2017

**Recruitment of new academic staff at UNSW:** I participated in screening applications to invite for an interview in the area of Computer Science and Cyber Security in SEIT at UNSW Canberra @ ADFA. 2017

**External Advisory Forum (EAF):** The purpose of the External Advisory Forum (EAF) is to receive feedback from the industry and ensure the students being produced are meeting the needs of industry. I represented BCCS program in SEIT at UNSW Canberra @ ADFA. 2017

**Editorial Board member:** The International Journal of Security and Usability (ISSN: 2456-8260). 2017

**Program Committee member:** The 4th International Workshop on Evolving Security and Privacy Requirements Engineering, co-located with 25th IEEE International Requirements Engineering Conference in Lisbon, Portugal. — 4 September 2017. 2017

**Demos and Work in Progress Chair:** The 29th Australian Conference on Human-Computer Interaction (OzCHI 2017 - Human-Nature), Brisbane — 28th November -1st December, 2017 2017

**Publicity Chair:** The 2nd International Workshop on Future Information Security, Privacy and Forensics for Complex Systems (FISP-2016) in conjunction with The 11th International Conference on Future Networks and Communications (FNC-2016) Montreal, Quebec, Canada — August 15-18, 2016 2016

**Reviewer:** Neural Computing and Applications, Springer (Impact factor:1.569) 2016

**Program Committee member:** The 3rd International Workshop on Evolving Security and Privacy Requirements Engineering, co-located with the 23rd IEEE International Requirements Engineering Conference in Beijing, China — 12-13 September 2016 - 2016

**Publicity Chair:** The 21st Australasian Conference on Information Security and Privacy (ACISP) Melbourne, Australia — 4-6 July, 2016 2016

**Reviewer:** Computers in Human Behavior, Elsevier (Impact factor: 2.296) 2015, 2016

**Program Committee member:** The 2nd International Workshop on Evolving Security and Privacy Requirements Engineering, co-located with the 22nd IEEE International Requirements Engineering Conference in Ottawa, Canada — 24-28 August 2015 - 2015

**Conference sub-reviewer:** Symposium On Usable Privacy and Security, In-cooperation with USENIX 2015

**Conference sub-reviewer:** IEEE Symposium on Security and Privacy 2015

<b>Reviewer:</b> Computers & Security, Elsevier (Impact factor: 1.172)	2014, 2015
<b>Reviewer:</b> International Journal of Human-Computer Studies, Elsevier (Impact factor: 1.165)	2014, 2015
<b>Reviewer:</b> International Journal of Law, Crime and Justice, Elsevier (Impact factor: 0.838)	2014, 2015
<b>Executive Team Member:</b> UBC Postdoctoral Association	2014, 2015
<b>Reviewer:</b> Software Quality Journal, Springer (Impact factor: 0.880)	2014
<b>Technical Chair/Web-master:</b> The 27th International British Computer Society Human Computer Interaction Conference: The Internet of things	2013
<b>Reviewer:</b> Computers and Education, Elsevier (Impact factor: 2.621)	2012

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