

Abridged Curriculum Vitae

Professor Kerry-Lynn Thomson

List of Educational Qualifications

Institution:	Nelson Mandela Metropolitan University
Qualification:	DTech: Information Technology
Year of Graduation:	2008
Institution:	Port Elizabeth Technikon
Qualification:	MTech: Information Technology
Year of Graduation:	2004
Institution:	Port Elizabeth Technikon
Qualification:	BTech: Information Technology
Year of Graduation:	2003
Institution:	Port Elizabeth Technikon
Qualification:	NDip: Information Technology
Year of Graduation:	2002
Qualification:	Cisco Certified Networking Associate (CCNA) certified (CSCO10437515)
Valid:	2021
Qualification:	Cisco Certified Networking Associate Security (CCNA Security) certified (CSCO10437515)
Valid:	2021
Qualification:	Cisco Certified Academy Instructor (CCAI)
Qualification:	Terrestrial Trunked Radio (TETRA) Trainer of Trainers in the following courses: System (SYS), EUS, Dispatcher Workstation (DWS), Radio Unit Operator (RUO)

Work History

Current Employer: Nelson Mandela University
Job Title/Position Held: Professor
Period: January 2020 – present

Current Employer: Nelson Mandela University
Job Title/Position Held: Associate Professor
Period: January 2013 – December 2019

Employer: Nelson Mandela Metropolitan University
Job Title/Position Held: Senior Lecturer
Period: January 2009 – December 2012

Employer: Nelson Mandela Metropolitan University
Job Title/Position Held: Lecturer
Period: October 2007 – December 2008

Kerry-Lynn is a Professor in the School of Information Technology (IT), the Head of Department for the Network Engineering Department, and a senior team member of the Centre for Research in Information and Cyber Security (CRICS). In her capacity as a cybersecurity researcher, Kerry-Lynn has been invited to give cybersecurity awareness talks at various schools, career evenings, the FamHealth-NMU Youth Leadership Academy and the Missionvale STEM in ACTION Winter School.

Kerry-Lynn is the current Chair of the international IFIP Technical Committee 11 Working Group 12 (11.12) – *Human Aspects of Information Security and Assurance*. She has served as the Secretary and Vice-Chair of this Working Group over the past nine years. Kerry-Lynn is the current Vice-Chair of the Eastern Cape Chapter of the Institute of Information Technology Professionals South Africa (IITPSA).

Kerry-Lynn serves on the School of IT's Postgraduate Studies Committee (SPGSC) and represents the Faculty of EBET in the Nelson Mandela University Student Disciplinary Committee Hearings. She is also an Advisory Board member for the School of IT, CRICS and the Cisco Networking Academy.

Further to this, she teaches both undergraduate and postgraduate students. Her teaching area of specialisation focuses on advanced communication networking technologies. She gained extensive experience in teaching communication networks as the Assistant Academy Manager and Senior Instructor of the Cisco Academy Training Centre (CATC) which she applies in teaching full-time students.

Kerry-Lynn has presented communication networks and teaching related topics at various Cisco Networking Academy Safari's (conferences) since 2007. Topics covered include

curriculum integration, how best to teach problem-solving/troubleshooting, cybersecurity, Internet of Things (IoT) and various practical networking components.

Kerry-Lynn is a fully-qualified Cisco instructor in the following courses: Cisco Certified Networking Associate (CCNA), Cisco Certified Networking Professional (CCNP), CCNA Security, IT Essentials and Wireless. In addition to full-time students, Kerry-Lynn has taught part-time industry professionals in the CCNA, CCNA Security and CCNP courses. As the liaison between the Nelson Mandela University School of IT and the Cisco Academy Support Center, Kerry-Lynn facilitates the integration of networking courses into the curricula of the School of IT, as well as advising on the integration of Cisco material into the curricula of Universities with Cisco Academies in Africa, most recently via a remote workshop with Jomo Kenyatta University in Kenya.

Kerry-Lynn has trained Cisco instructors from Academies in Africa and the Middle East, including Ethiopia, Mozambique, Kenya, Nigeria, Mauritius, Namibia, Liberia, Uganda, Senegal, Bahrain and Lebanon, as well as instructors from various Academies in South Africa.

With regard to her research, Kerry-Lynn's research focus is interdisciplinary and includes cybersecurity, information security, corporate culture and the human aspects of information assurance.

Previous Employer:	Sub-Saharan Africa Cisco Academy Training Centre (CATC)
Job Title/Position Held:	Assistant Academy Manager / Senior Instructor
Period:	March 2003 – October 2007

At the time, the Sub-Saharan Africa Cisco Academy Training Centre (CATC) at the NMMU was one of only 3 CATC's in Africa. All Regional Academy instructors in the Sub-Saharan region in the Cisco Academy Networking Program attended training at the NMMU CATC. As Assistant Academy Manager for the CATC, Kerry-Lynn was involved with the management of the CATC and Quality Assurance of the Cisco Academies throughout Sub-Saharan Africa. This meant Quality Assurance visits to many Academies in South Africa and Lesotho.

Journal Articles Published

In 2021, “*Towards a Risk Assessment Matrix for Information Security Workarounds*”, E Slabbert, K Thomson and L Futcher was published in Human Aspects of Information Security and Assurances, Springer, IFIP AICT 613, pages 164-178.

In 2020, “*Internet Self-Regulation in Higher Education: A Metacognitive Approach to Internet Addiction*”, D von Schoultz, K Thomson and J van Niekerk was published in Human Aspects of Information Security and Assurance, Springer, IFIP AICT 593, pages 186-210.

In 2020, “*A Cybersecurity Curricular Framework for IT Undergraduates in South Africa*”, L Futcher, K Thomson and A Mbuqe was chosen for publication in Communications in Computer and Information Science (CCIS Vol. 730) – SACLA 2020.

In 2019, “*Towards a Framework for the Integration of Information Security into Undergraduate Computing Curricula*”, L. Gomana, L. Futcher and K. Thomson was published in the South African Journal of Higher Education in Vol 33, No 3 (2019).

In 2018, “*Towards Culturally Sensitive Policy: Africanising Approaches to prevent Social Engineering*”, K. Thomson and J. van Niekerk was published in Advanced Science Letters, Volume 24, Number 4, April 2018, pages 2499 – 2503(5).

In 2018, “*Factors Influencing Smart Application Downloads*”, W. Janse van Rensburg, K. Thomson and L. Futcher was published in IFIP Advances in Information and Communication Technology (Information Security Education - Towards a Cybersecure Society), Springer, Volume 531, pages 81-92.

In 2017, “*South African Computing Educators’ Perspectives on Information Security Behaviour*” T. Mabece, L. Futcher & K. Thomson was published in IFIP Advances in Information and Communication Technology (Information Security Education for a Global Digital Society), Springer, Volume 503, 2017, pages 121-132.

In 2017, “*Assessing the Effectiveness of the Cisco Network Academy Program in Developing Countries*”, O. Yekela, J. van Niekerk & K. Thomson was published in IFIP Advances in Information and Communication Technology (Information Security Education for a Global Digital Society), Springer, Volume 503, 2017, pages 27-38.

In 2015, “*A Multi-faceted Model for IP-based Service Authorization in the eduoam Network*”, L Tekeni, R Botha & K Thomson was published in the South African Institute for Electrical Engineers (SAIEE) edition of the Africa Research Journal.

In 2012, “*Risk Management for VoIP Implementations*”, T Gerber & K Thomson was published in the African Journal of Business Management.

In 2009, “*Scare tactics – a viable weapon in the security war?*”, S Furnell, M Papadaki & K-L Thomson was published in *Computer Fraud & Security*, December 2009, pages 6 – 10.

In 2009, “*Recognising and addressing ‘security fatigue’*”, S Furnell & K-L Thomson was published in *Computer Fraud & Security*, November 2009, pages 7 – 11.

In 2009, “*From Culture to Disobedience: Recognising the Varying User Acceptance of IT Security*”, S Furnell & K-L Thomson was published in *Computer Fraud & Security*, February 2009, pages 5 – 10.

In 2006, “*Cultivating an Organisational Information Security Culture*”; K-L Thomson, R von Solms & L Louw was published in *Computer Fraud & Security*, Volume 2006, Issue 10, pages 7 – 11.

In 2006, “*Towards an Information Security Competence Maturity Model*”; K-L Thomson & R von Solms was published in *Computer Fraud & Security*, Volume 2006, Issue 5, pages 11-15.

In 2005, “*Information Security Obedience: A Definition*”; K-L Thomson & R von Solms was published in *Computers & Security*, Volume 24, pages 69-75.

Conference Papers

In 2018, Kerry-Lynn co-authored a paper, “An Educational Intervention Towards Safe Smartphone Usage” for the Twelfth International Symposium on Human Aspects of Information Security & Assurance (HAISA 2018) in Dundee, Scotland. Authors: W. Janse van Rensburg, K. Thomson & L. Fletcher.

In 2018, Kerry-Lynn co-authored a paper “A Personal Informatics Approach for Internet Self-regulatory efficacy in a South African University” for the Open Conference on Computers in Education (OCCE) IFIP 3 in Linz, Austria. Authors: D. von Schoultz, K. Thomson and J. van Niekerk.

In 2016, Kerry-Lynn co-authored a paper, “An Overview of Access Control Practices: Guidance from ITIL, COBIT 5 and ISO/IEC 27002” for the Information Institute Annual Security Conference in Las Vegas, USA. Authors: L. Tekeni, R. Botha & K. Thomson.

In 2016, Kerry-Lynn co-authored a paper, “Towards an Interdisciplinary Cyberbullying Campaign” for the Tenth International Symposium on the Human Aspects of Information Security & Assurance (HAISA) in Frankfurt, Germany. Authors: J. van Niekerk & K. Thomson.

In 2016, Kerry-Lynn co-authored a paper, “Comparing Student Password Knowledge and Behaviour: A Case Study” for the Tenth International Symposium on the Human Aspects of Information Security & Assurance (HAISA) in Frankfurt, Germany. Authors: D.T. Fredericks, L.A. Futcher & K. Thomson.

In 2016, Kerry-Lynn co-authored a paper, “An Educators Perspective of Integrating Information Security into Undergraduate Computing Curricula” for the Tenth International Symposium on the Human Aspects of Information Security & Assurance (HAISA) in Frankfurt, Germany. Authors: L. Gomana, L.A. Futcher & K. Thomson.

In 2016, Kerry-Lynn co-authored a paper, “Towards using pervasive information security education to influence information security behaviour in undergraduate computing graduates” for the International Conference on Information Resources Management (CONF-IRM) in Cape Town, South Africa. Authors: T. Mabece, L. Futcher & K. Thomson.

In 2015, Kerry-Lynn co-authored a paper, “A critical evaluation of information security education in nursing science: a case study” for the IFIP TC3 Working Conference in Vilnius, Lithuania. Authors: I Okere, J van Niekerk & K Thomson.

In 2015, Kerry-Lynn co-authored a paper, “Integrating Information Security into the IT Undergraduate Curriculum: A Case Study” for the 44th Southern African Computer Lecturers’ Association (SACLA) conference in Johannesburg, South Africa. Authors: L Gomana, L Futcher & K Thomson.

In 2014, Kerry-Lynn co-authored a paper, “Concerns Regarding Service Authorization by IP address using eduroam” for the 13th Information Security South Africa (ISSA) conference in Johannesburg, South Africa. Authors: L Tekeni, R Botha & K Thomson.

In 2014, Kerry-Lynn co-authored a paper, “Exploring the Human Dimension in the Beneficiary Institution of the SANReN Network” for the 8th International Symposium Human Aspects of Information Security and Assurance Conference in Plymouth, England. Authors: Y Mjikeliso, J van Niekerk & K Thomson.

In 2013, Kerry-Lynn co-authored a paper, “Cyber Safety for School Children: A Case Study in the Nelson Mandela Metropolis” for the 8th IFIP WG 11.8 World Conference on Information Security Education in Auckland, New Zealand. Authors: J van Niekerk, K Thomson & R Reid.

In 2013, Kerry-Lynn co-authored a paper, “Web usage mining within a South African university infrastructure: towards useful information from student web usage data” for the ZAWWW – Annual Conference on World Wide Web Applications. Authors: D von Schoultz, J van Niekerk & K Thomson.

In 2013, Kerry-Lynn co-authored a paper, “Service desk link into IT asset disposal: A case of a discarded IT asset” for the 2013 International Conference on Adaptive Science and Technology (ICAST). Authors: K Adesemowo & K Thomson.

In 2011, Kerry-Lynn presented a paper, “Combating Information Security Apathy by Encouraging Prosocial Organisational Behaviour” at the International Symposium for Human Aspects of Information Security and Assurance in London, England. Authors: K Thomson & J van Niekerk.

In 2011, Kerry-Lynn co-authored a paper, “Information security governance control through comprehensive policy architectures” which was presented at the ISSA Conference in Johannesburg. Authors: R von Solms, K Thomson & M Maninjwa.

In 2011, Kerry-Lynn co-authored a paper, “Exploring the human dimension of TETRA” which was presented at the ISSA Conference in Johannesburg. Authors: N Fouche & K Thomson.

In 2010, Kerry-Lynn presented a paper, “Evaluating the Cisco Networking Academy Program's Instructional Model against Bloom's Taxonomy for the purpose of Information Security Education for Organizational End-users” at the World Computer Congress in Brisbane, Australia. Authors: J van Niekerk & K Thomson.

In 2009, Kerry-Lynn presented a paper, “Information Security Conscience: a Precondition to an Information Security Culture?” at the 8th Annual Security Conference in Las Vegas, Nevada, US (Kerry-Lynn received the “Best Conference Paper Award” for this paper she presented in Las Vegas). Authors: K Thomson.

In 2009, Kerry-Lynn co-authored a paper, “E-voting: A South African Perspective” that was presented at the 1st AFRICOMM conference held in Maputo, Mozambique. Authors: E. Swanepoel, K Thomson & J van Niekerk.

In 2008, Kerry-Lynn presented a paper, “Using Knowledge Creation and Agency Theory to Shape an Information Security Obedient Culture” at the IFIP TC11.1 Working Conference in Information Security Management in Richmond, Virginia, US. Authors: K Thomson & R von Solms.

In 2004, Kerry-Lynn presented a paper, “Towards Corporate Information Security Obedience” at IFIP/SEC Conference in Toulouse, France. Authors: K Thomson & R von Solms.

In 2004, Kerry-Lynn presented a paper, “Cultivating Corporate Information Security Obedience” at the Information Security of South Africa (ISSA) Conference in Midrand, Gauteng, South Africa. Authors: K Thomson & R von Solms.

In 2003, Kerry-Lynn presented a paper, “Integrating Information Security into Corporate Governance” at IFIP/SEC Conference in Athens, Greece. Authors: K Thomson & R von Solms.

In 2003, Kerry-Lynn presented a paper, “Effective Corporate Governance” at the Information Security of South Africa (ISSA) Conference in Johannesburg, South Africa. Authors: K Thomson & R von Solms.

In 2002, Kerry-Lynn presented a paper, “Corporate Governance: Information security the weakest link?” at the Information Security of South Africa (ISSA) Conference in Muldersdrift, Gauteng, South Africa. Authors: K Thomson & R von Solms.

International Programme Committees served on:

IFIP TC-11 SEC International Information Security and Privacy Conference (IFIP SEC)

International Symposium on Human Aspects of Information Security & Assurance (HAISA)

International Conference on Human Aspects of Information Security, Privacy and Trust (HAS)

Socio-Technical Aspects in Security and Trust (STAST)

The International Science Conference: Computer Networks (CN)

International Conference on Emerging Trends in Network and Computer Communication (ETNCC)

World Conference on Information Security Education (WISE)

International Network Conference (INC)

The International Conference on IT Convergence and Security (ICITCS)

Information Security South Africa (ISSA)

Southern Africa Computer Lecturers’ Association (SACLA)

M & D Students Graduated

Student name: Apelele Mbuqe
Qualification: Masters in Information Technology
Year: 2020

Student name: Damian Fredericks
Qualification: Masters in Information Technology
Year: 2018

Student name: Odwa Yekela
Qualification: Masters in Information Technology
Year: 2018

Student name: Luzuko Tekeni
Qualification: Masters in Information Technology
Year: 2017

Student name: Thando Mabece
Qualification: Masters in Information Technology
Year: 2017

Student name: Lindokuhle Gomana
Qualification: Masters in Information Technology
Year: 2017

Student name: Dean von Schoultz
Qualification: MTech: Information Technology
Year awarded: 2015

Student name: Yolanda Mjikeliso
Qualification: MTech: Information Technology
Year awarded: 2015

Student name: Phillip van Rensburg
Qualification: MA: Clinical Psychology
Year awarded: 2015

Student name: Tian Gerber
Qualification: MTech: Information Technology
Year awarded: 2013

Student name: Nico Fouche
Qualification: MTech: Information Technology
Year awarded: 2013

Student name: Mercy Bere
Qualification: Master of Information Technology (Polytechnic of Namibia)
Year awarded: 2013

Student name: Edwin Frauenstein
Qualification: MTech: Information Technology
Year awarded: 2013

Student name: Eranee Swanepoel
Qualification: MTech: Information Technology
Year awarded: 2012

Student name: Prosecutor Maninjwa
Qualification: MTech: Information Technology
Year awarded: 2012

Awards

- In 2010, Kerry-Lynn was elected as the Emerging Researcher of the Year for the Faculty of Engineering, the Built Environment and Information Technology
- In 2009, Kerry-Lynn was elected as the Emerging Teacher of the Year for the Faculty of Engineering, the Built Environment and Information Technology
- South African National Research Foundation Scarce Skills Scholarship 2002
- Port Elizabeth Technikon Rector's Bursary 1999-2002
- South African National Research Foundation Prestigious Scholarship for Masters' Studies 2003
- South African National Research Foundation Prestigious Scholarship for Doctoral Studies 2004-2006
- Nelson Mandela Metropolitan University Internal Research Bursary 2006
- 1998 East Cape Weekend Matric of the Year' – awarded to the top all-round Matric in the Eastern Cape, South Africa