



Curriculum Vitae

A. BIOGRAPHICAL SKETCH					
Surname	Venter	Maiden Name	Van Niekerk	Title	Professor
First name(s)	Isabella Margarethe				
Telephone no.	(021) 959 3008 (w)		(021) 913 2137 (h)		
e-mail	iventer@uwc.ac.za, isabella.venter@mweb.co.za				
Nationality	South African & Namibian				
B. ACADEMIC QUALIFICATIONS					
Degree/Diploma	Field of study	Higher education institution	Year	Distinctions	
PhD	Information Technology	University of Pretoria	2000		
MSc	Computer Science	UNISA	1982	Theory of Computation Artificial Intelligence I	
BSc Honours	Computer Science	UNISA	1979	Fundamental concepts of accounting Mathematical Methods of Physics & Computer Science I & II Linear Programming	
Higher Education Diploma	Mathematics Physical Science	University of Stellenbosch	1973		
BSc	Mathematics Physics Applied Mathematics Chemistry	University of Stellenbosch	1972		
C. POSITIONS HELD					
Period	Position	Name of Employer			
August 2017 – currently	Professor Extra-Ordinary	University of the Western Cape			
2016 –July 2017	Professor Lecture topics include: Human Computer interaction, Computer Architecture				
2005 –currently	Chairperson of the Managing Committee of the Telkom/Cisco/Aria Technologies Africa Centre of Excellence				
2005–March 2017	Chairperson, Computer Science Department.				
2005–2015	Associate Professor				
2001–2004	Senior Lecturer Computer Science				
2004, 2000 –2002, 1993–1996	Deputy Chairperson, Computer Science				
2004, 1993	Acting Chairperson, Computer Science				
1991–2000	Lecturer Computer Science: Lecture topics include Numerical Mathematics, Data Communication and Computer Networks, Operating Systems, Java and Computer Literacy				
1988–1991	Junior Lecturer Computer Science:				
1989–1990	Consultant: Maintenance of a FORTRAN Program for the National Hydrographic Office.	INFOPLAN, Muizenberg			
1988–1990	Lecturer Computer Fundamentals course Masters in Business Administration	Stellenbosch University School of Business, Bellville			
1987–1988	Consultant: Functional Design Specification for a Network.	INFOPLAN, Muizenberg			

C. POSITIONS HELD (CONTINUED)			
Period	Position	Name of Employer	
1985—1987	Head of Department, Computer Information Systems: The planning of the curriculum for each course up to third year level. The coordination of the lecturing personnel in the department. General: The maintenance and creation of application programs for the Computer Centre.	Stellenbosch University, Saldanha	
1982—1985	Lecturer Computer Information Systems I: Designing application and system programs for the subject.		
1979	Technical Assistant: Making use of computer programs to calculate the circuits of ions in constant and time dependent electromagnetic fields. Design of FORTRAN programs to solve numerical mathematical problems	CSIR	
D. AWARDS, PRIZES etc			
Awards	Best Paper Award	2014	Design, Development & Research Conference, Cape Town
	Best Paper Award	2013	SATNAC 2013, Stellenbosch
	Best Paper Award	2011	AfriComm 2011, Zanzibar
	Academic Colours	2000	University of Pretoria
	PhD Bursary	1999-2000	TELP USAID
	Mellon Fellowship	1998	Mellon Foundation
	Distinguished Paper Award (second place)	1996	SUGISA '96, Stellenbosch
Academic Exchanges/ visits	University of Glasgow	2016	Conducted/participated in a workshop and visited Data Science Institutes in Stirling and Edinburgh
	University of Eastern Finland, Joensuu, Finland	2015	Presented a paper and acted as an opponent for a PhD
	Google, Zurich, Switzerland	2011	Participated in Google's Europe Middle East and African Faculty Summit
	Makarere University, Kampala, Uganda	2010	Participated in a Sub-Saharan curriculum development workshop
	München University of Technology	2007	Visit Dr Voss
	Oxford University	2004	Visit Prof. Gibbs, NRF funded
	Howard University (Washington D.C., USA)	1998	Invited speaker at ADMI and HURSAP Workshop
	University of Missouri-Rolla (Rolla, Missouri, USA)	1998	TELP funded university exchange program
	Faculty of Mathematics and Physics at Charles University in Prague (Czech Republic)	1998	Post-conference visit, funded by UWC
	Computers in Teaching Initiative in the UK (Universities of Durham and Nottingham).	1994	Funding received from Sherag and Caltex

D. AWARDS, PRIZES etc (continued)				
	Investigator	Year	Title	Funding Source
Funding	Collaborator	2017-2019	Erasmus + Capacity Building in Higher Education	European Union
	Principal Investigator	2016-2021	Incentive funding for rated researcher	NRF – Grant number 103627
	Head of the Management Committee	2005 - currently	Telkom/Cisco/Aria Technology Centre of Excellence	Telkom/Cisco/Aria Technology Africa
	Principal Investigator	1995 - currently	Computer Education	UWC Research project 2013/06/08
	Co principal Investigator	2006 – 2015	Influence of assessment on student learning	UWC Research project 2005/4/7
	Co principal Investigator	2005	Assessment	NRF
	Principal Investigator	2002-2004	Collaboration & Learning & Internet	NRF GUN 2050663
	Co principal Investigator	2000-2002	Women-in-Research	NRF
	Co-principal Investigator	2000-2003	E-Learning in Statistics	NRF GUN 2050450
	Co-principal Investigator	1998 - 2005	Low-end Video conferencing Technologies Applied to Distance Learning	UWC Research project 98/3/17
	Co Investigator	1997	Intelligent Distributed Network for Multimedia Tutorial Systems	TELKOM, Siemens and THRIP.
	Principal Investigator	1995	Research in Cooperative learning and group work.	Academic Development, UWC
	Principal Investigator	1994	Academic Development in Computer Literacy	Sherag and Caltex.
E. PUBLICATIONS				
Thesis	2000	Venter, IM. <i>Group Constitution for small group learning in the field of Information Technology</i> . Ph.D. Thesis. University of Pretoria.		
Chapter in a book	2013	Rai, IA, Rodrigues, A, Venter, IM, Mills, G, Suleiman, H & Edumadze, J. Relevant Computing Curricula in Sub-Saharan Africa, <i>e-Infrastructure and e-Services for Developing Countries</i> , Volume 119 of the Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering series, LNICST 119, (p.239-248) (DOI 10.1007/978-3-642-41178-6_25, ISBN 978-3-642-41177-9)		
14 DHET-accredited journal articles				
Accredited journal articles	2017	Bankole, O & Venter, iM. Technology affordance in student collaborative environments, <i>South African Computer Journal</i> (Accepted)		
	2017	Bytheway, A, Venter, IM & Whyte, G. Stakeholder perceptions of information management in South African higher education, <i>South African Computer Journal</i> (Accepted)		
	2016	Al Lily, A, Foland, J, Stoloff, D, Gogus, A, Erguvan, I, Awshar, M, Tondeur, J, Hammond, M, Venter, IM, etc. Academic Domains as Political Battlegrounds: A Global Enquiry by 101 Academics in the Fields of Education and Technology, <i>Information Development Journal</i> , Sage DOI: 10.1177/0266666916646415 http://idv.sagepub.com/content/early/2016/05/03/0266666916646415.full.pdf?ikey=QtsF7QaOhMzxt&keytyp=e=finite (Pages 1-19)		
	2016	Blignaut, R, Venter, IM, & Renaud, KV. Granny gets smarter but junior hardly notices, <i>The Journal of Community Informatics</i> , Vol 12, No 3 (December 1 2016) ISSN: 1712-4441		
	2014	Bytheway, A, & Venter, IM, Strategies for information management in education: Some international experience. <i>SA Journal of Information Management</i> ; Vol 16, No 1 (2014), 11 pages. doi: 10.4102/sajim.v16i1.596 (ISSN 1560683x)		
	2014	Venter IM, Blignaut, RJ, & Renaud, K. Uniformity in the midst of diversity. <i>Journal of Engineering, Design and Technology</i> , Vol 12, No 4 (6 October 2014) ISSN: 1726-0531 http://dx.doi.org/10.1108/JEDT-08-2013-0060 (Pages 550-562)		
	2013	Azeez, NA & Venter IM. Towards ensuring scalability, interoperability and efficient access control in a multi-domain grid-based environment. <i>Special Edition of SAIEE African Research Journal</i> , Vol 104 (2) June 2013 (ISSN 1991-1696) (Pages 54-68)		
	2011	Blignaut, RJ & Venter, IM. Comparative study of admissions criteria of a selection of South African universities. <i>LitNet Akademies Jaargang</i> , Volume 8 Number 2 – Augustus 2011, available online at www.litnet.co.za (ISSN 1995-5928)		
	2009	Sanga, C & Venter, IM. Is a Multi-criteria Evaluation Tool Reserved for Experts? <i>The Electronic Journal Information Systems Evaluation</i> Volume 12 (2) 2009, (pp185 - 196), available online at www.ejise.com (ISBN/ISSN 1566-6379)		

E. PUBLICATIONS (continued)	
Accredited journal articles	2001 Venter, IM, Blignaut, RJ & Stoltz, D. Research methodologies explored for a paradigm shift in university teaching. <i>South African Journal of Higher Education</i> , Volume 15 Number 2 (Pages 162-169).
	2000 Blignaut, RJ, Venter, IM & Cranfield, D. Fast tracking students from disadvantaged backgrounds into main stream Computer Science. <i>South African Computer Journal</i> , Number 26 November 2000 (Pages 228-230).
	1998 Blignaut, RJ & Venter, IM Teamwork: Can it equip university science students with more than rigid subject knowledge? <i>Computers & Education</i> , Volume 31, Number 3 (Pages 265-279).
	1996 Venter, IM & Blignaut, RJ. Approach to computer literacy in a third world setting, <i>Computers & Education</i> , Volume 27, Number 1, August 1996. (Pages 23 – 29).
	1996 Hart, G, Makhubela, L, Smith, M, Venter, IM & Walker, M. Different Angles of Vision: teaching tales from the University of the Western Cape. <i>Teaching in Higher Education</i> , Volume. 1, Number. 2 (Pages 193 –211).
	7 Journal articles
Other journal articles	2015 Sanga, C & Venter IM. Algorithm for the evaluation of Free and Open Source Software when the Evaluator is "Uncertain", <i>International Journal of Management Science and Information Technology (IJMSIT)</i> ; Vol 3 Issue 17 (ISBN: ISSN 1923-0265) (Pages 35-55)
	2014 Azeez, NA, Fasina, EP, Ayangbekun, OJ, Ojiako, CP & Venter, IM. Protecting Africa's citizenry from cyber-terrorism through joint awareness campaign programmes (JACAP), <i>Computing, Information Systems, Development Informatics & Allied Research Journal</i> Volume 5, No. 3 September 2014, pp.1-12 (ISSN 2167-1710)
	2012 Azeez, NA, Venter, IM, Iyamu, T & Oyewole, AS. An Investigation into Five Grid Security Models: Their Implementation, Strengths and Weaknesses An Overview of Five Security Models, <i>International Journal of Architectural Computing (IJAC)</i> : Volume 5, No. 2, July-December 2012, pp. 83-96 (ISSN 0974-6277)
	2012 Azeez, NA, Abidoeye, AP, Adesina, AO, Agbele, KK, Venter, IM & Oyewole, AS. Threats to e-government implementation in the civil service: Nigeria as a case study. <i>The Pacific Journal of Science and Technology, USA</i> . Volume 13. Number 1. May 2012 (Spring): page 398-402. URL for online version: http://www.akamaiuniversity.us/PJST13_1_398.pdf
	2011 Azeez, NA, Venter, IM & Iyamu, T. Peer-to-Peer Computing and Grid Computing: Towards a Better Understanding. <i>The Pacific Journal of Science and Technology, USA</i> . Volume 12. Number 1. May 2011 (Spring): page 270-276. URL for online version: http://www.akamaiuniversity.us/PJST12_1_270.pdf
	2011 Azeez, NA, Iyamu, T, Venter IM, Onifade OFW & Azeez, RA. Grid Security: Evaluation of Active and Passive Attacks with Proposed Countermeasures. <i>Science Alert: Research Journal of Information Technology</i> 3(3): 181-190, 2011, New York, U.S.A. URL for online version: http://scialert.net/qredirect.php?doi=rjit.0000.29742.29742&linkid=pdf
1997 IM Venter. Teams, Trying or Terrific? A Cooperative Approach to the Learning of Computer Science, <i>Academic Development</i> Volume 3, Number 2 (Pages 3 – 17) (ISSN 1026-4035).	
Article included in publication	2001 <i>Collection of Papers for Informatics Didactics</i> . University of Oslo, Mathematics and Science Faculty, Sweden. Paper included is: IM Venter & RJ Blignaut. (2000) Approach to computer literacy in a third world setting, <i>Computers & Education</i> , Volume 27, Number 1. (Pages 248 – 258)
	44 DHET accredited conference papers (21 international, 23 local)
Peer reviewed accredited conference publications	2017 Norman, M & Venter, IM. Software Development in the Western Cape – the role of higher education <i>South African Institute for Computer Scientists and Information Technologists Conference, September 22-24, 2017, Bloemfontein, South Africa.</i> (ISBN: 978-1-4503-5250-5) (Paper 32)
	2017 Deaney, W, Ghaziasgar, M, Venter, IM and Dodds, R. <i>South African Institute for Computer Scientists and Information Technologists Conference, September 22-24, 2017, Bloemfontein, South Africa.</i> (ISBN: 978-1-4503-5250-5) (Paper 116)
	2017 Alaiat, H & Venter, IM. Graduate attributes for Computer Science in Libya, <i>Proceedings of the Southern African Lecturer's Association</i> , September 2017, Magaliesberg, South Africa (Page 94-100)
	2017 Adams, S, Tucker, WD & Venter, IM. Generalisation of tooltips: an assistive extension, <i>Proceedings of the 2nd International Symposium on Emerging Technologies for Education (SETE 2017)</i> , September 2017, Cape Town, (Accepted).
	2017 Bytheway, A, Venter, IM & Whyte, G. Understanding stakeholder expectations in higher education, <i>International Conference on Information Resources Management</i> , May 2017, Santiago. Chile (Paper 44).
	2016 Jacobs, K, Ghaziasgar, M, Venter, IM and Dodds, R. Hand Gesture Recognition of Hand Shapes in Varied Orientations using deep learning. <i>South African Institute for Computer Scientists and Information Technologists Conference, SAICSIT 2016</i> , September 26-28, 2016, Johannesburg, South Africa (ISBN 978-1-4503-4805) DOI: http://dx.doi.org/10.1145/2987491.2987524

E. PUBLICATIONS (continued)

- Peer reviewed accredited conference publications
- 2016 Norman, M & Venter, IM. Factors for developing a software industry. *South African Institute for Computer Scientists and Information Technologists Conference, SAICSIT2016*, September 26-28, 2016, Johannesburg, South Africa (ISBN 978-1-4503-4805) DOI: <http://dx.doi.org/10.1145/2987491.2987507>
- 2016 Jacobs, K, Ghaziasgar, M, Venter, IM & Dodds, R. South African Sign Language Hand Shape and Orientation Recognition Using Deep Learning. *Proceedings of the Southern African Telecommunication Networks and Applications Conference (SATNAC 2016)*, 4–7 September, George (Paper 64, pages 320-325), ISBN 978-0-620-72418-02016 Renaud, K, Blignaut, RJ & Venter, IM. Smartphone Owners Need Security Advice. How Can We Ensure They Get It? *International Conference on Information Resources Management*, May 2016, Cape Town. South Africa (ISBN: 978-0-473-35594-4) (Paper 60).
- 2015 Venter, IM, Blignaut RJ & Renaud, KV. Blinkered views of out-group mobile phone usage: Moving towards less stereotyping of “others”. *South African Institute for Computer Scientists and Information Technologists Conference (SAICSIT 2015)*, 28-30 September 2015, Stellenbosch, South Africa (ISBN: 978-1-4503-3683-3) DOI: <http://dx.doi.org/10.1145/2815782.2815804> (Paper 37).
- 2015 Venter, IM, De la Harpe, R, Ponelis, SR & Renaud, K. Deploying Design Science Research in Graduate Computing Studies in South Africa. *Americas Conference on Information Systems (AMCIS 2015)*, August 13–15, Fajardo, Puerto Rico, (ISBN: 978-0-9966831-0-4).
- 2015 Deaney, W, Venter IM, Ghaziasgar, M, & Dodds, R. Visual Sound Recognition Using Local Binary Patterns. *Proceedings of the Southern African Telecommunication Networks and Applications Conference (SATNAC 2015)*, 6–8 September, Kleinmond, (ISBN: 978-0-620-67151-4). (Pages 231-236)
- 2014 Rey-Moreno C, Ufitamahoro MJ, Venter IM & Tucker, WD. Co-designing a Billing System for Voice Services in Rural South Africa: Lessons Learned. *13th International Conference on Social Implications of Computers in Developing Countries DEV 2014* ACM DEV-5 (2014), December 5–6, 2014, San Jose, CA, USA, ACM 978-1-4503-2936-1/14/12 <http://dx.doi.org/10.1145/2674377.2674389>. (Pages 83-92)
- 2014 Ufitamahoro MJ, Venter IM, Rey-Moreno C & Tucker WD. Participatory design for a billing system: A South African case study on a community based telephony system. *South African Institute for Computer Scientists and Information Technologists Conference (SAICSIT 2014)*, 30 September–1 October, Centurion, ACM 978-1-4503-3246-0/14/09 <http://dx.doi.org/10.1145/2664591.2664618> (Pages 270-275)
- 2014 Ngangom-Tiemeni, GL, Venter IM & Tucker, WD. Performance Evaluation of a Wireless Network Using a VoIP traffic generator on a mobile device. *South African Institute for Computer Scientists and Information Technologists Conference (SAICSIT 2014)*, 30 September – 1 October, Centurion, ACM 978-1-4503-3246-0/14/09 <http://dx.doi.org/10.1145/2664591.2664626> (Pages 297-303)
- 2014 Ngangom-Tiemeni, GL, Venter IM, & Tucker WD. Rural Wireless Mesh Network Analysis on the Go. *Proceedings of the Southern African Telecommunication Networks and Applications Conference SATNAC 2014*, edited by Roy Volkwyn. Port Elizabeth, South Africa, 1 to 3 September 2014. (Pages 307 – 312) (ISBN978-0-620-61966-0).
- 2013 Ngangom-Tiemeni, GL, Venter IM, Rey-Moreno C & Tucker WD. A Mobile Platform Traffic Generator for Network Performance Evaluation. *Proceedings of the Southern African Telecommunication Networks and Applications Conference SATNAC 2013*, Stellenbosch, South Africa, 1to 5 September 2013 (Pages 447-448) (ISBN 978-0-620-57883-7)
- 2013 Achmed, I, Venter, IM & Eisert, P. Improved Hand-Tracking Framework with a Recovery Mechanism. *Proceedings of the Southern African Telecommunication Networks and Applications Conference SATNAC 2013, Stellenbosch, South Africa*, 1to 5 September 2013 (Pages 185 -190) (ISBN 978-0-620-57883-7)
- 2013 Renaud, K, Blignaut, RJ & Venter, IM. Designing Mobile Phone Interfaces for Age Diversity in South Africa: “One-World” versus Diverse “Islands”, Human-Computer Interaction -- INTERACT 2013, *Lecture Notes in Computer Science*, edited by Paula Kotzé, Gary Marsden, Gitte Lindgaard, Janet Wesson and Marco Winckler. Springer, LNCS 8119 (Pages 1-17, Part III) (ISBN978-3-642-40476-4).
- 2013 Norman, MJ & Venter IM. India’s efforts to promote software development – Lessons to be learnt for South Africa. *Proceedings of the 10th IFIP World Conference on Computers in Education WCCE2013*, Torun, Poland, 1-5 July 2013 (Pages 255-265) (ISBN 978-83-231-3093-2)
- 2013 Blignaut, RJ, Venter IM, & Renaud, K. A bridge over the computer science graduate skill gap. *Proceedings of the 10th IFIP World Conference on Computers in Education WCCE2013*, Torun, Poland, 1-5 July 2013 (Pages274283) (ISBN 978-83-231-3090-1)

E. PUBLICATIONS (continued)

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| Peer reviewed accredited conference publications | 2012 | Ponelis, SR, Mathee, D, Kroeze, JH, Venter, IM & Pretorius, PD. Building capacity and developing human capital: an exploration of curriculum development in ICT programmes at South African universities <i>Proceedings of SIG GlobDev Fifth Annual Workshop</i> , Orlando, USA December 16, 2012 (ISBN 978-0-620-55688-0) |
| | 2012 | Azeez, NA, & Venter IM. Optimizing grid and cloud computing infrastructures to handle security and access control challenges. <i>14th Annual Conference on World Wide Web Applications, ZAWWW 2012</i> , Durban, South Africa, 7 – 9 November 2012. (978-0-620-55590-6) |
| | 2012 | Achmed, I, Venter IM, & Eisert, P. A Framework for Independent Hand Tracking in Unconstrained Environments. <i>Proceedings of the Southern African Telecommunication Networks and Applications Conference SATNAC 2012</i> , George, South Africa, 2 to 5 September 2012 (Paper 21) (Pages 159-164) (ISBN 978-0-620-53713-1) |
| | 2012 | Azeez, NA, & Venter IM . Towards achieving scalability and interoperability in a Triple-Domain Grid-Based Environment. <i>11th Annual Information Security South Africa Conference ISSA 2012</i> , Johannesburg , South Africa, 15 - 17 August 2012 (Paper 26) (ISBN-978-1-4673-2158-7, IEEE Catalog Number: CFP1266I-CDR) |
| | 2012 | Kroeze, JH, Ponelis, SR, Venter, IM, Pretorius, PD & Prinsloo, P. Aligning African Computing Disciplines' Graduate Attributes with International Standards, <i>The 6th International Multi-Conference on Society, Cybernetics and Informatics, IMSCI2012</i> , Orlando, Florida, USA, 17–20 July, 2012 (Pages 70–75) (ISBN-13: 978-1-936338-66-5) |
| | 2012 | Azeez, N.A., Venter IM., & Iyamu, T. “Grid security loopholes with proposed counter measures”. <i>Computer and Information Science II: 26th International Symposium on Computer and Information Sciences</i> , edited by Erol Gelenbe, Ricardo Lent and Georgia Sakellari, Springer Verlag London (Pages 411–418) (ISBN 978-1-4471-2154-1 and e-ISBN 978-1-4471-2155-8) |
| | 2011 | Rai, IA, Rodrigues, A, Venter, IM, Mills, G, Suleiman, H & Edumadze, J. <i>Relevant Computing Curricula in Sub-Saharan Africa</i> , AFRICOMM 2011: 3rd International ICST Conference on e-Infrastructure and e-Services for Developing Countries. Zanzibar, 23-24 November 2011. |
| | 2011 | Hoorn, RT & Venter IM. Using mass video notification methods to assist Deaf people. <i>Proceedings of the 2011 Annual Conference of the South African Institute of Computer Scientists and Information Technologists</i> , Cape Town , 3-5 October 2011. Part of the ACM ICPS Conference Series ISBN: 978-1-4503-0878-6 (Pages 275–278) |
| | 2011 | Iraba, ML & Venter, IM. Empowerment of rural farmers through information sharing using inexpensive technologies, <i>Proceedings of the 2011 Annual Conference of the South African Institute of Computer Scientists and Information Technologists</i> , Cape Town, 3-5 October 2011. Part of the ACM ICPS Conference Series ISBN: 978-1-4503-0878-6 (Pages 279 – 282) |

E. PUBLICATIONS (continued)

- Peer reviewed accredited conference publications
- 2010 Sanga, C & Venter, IM. What is the value of replicating the data analysis of an empirical evaluation? *Conference of Technology for Innovation and Education in Developing Countries (TEDC 2010)*, February, 2010. Mozambique. URL: <http://cs.joensuu.fi/tedc2010/call.html> 2008 Plane, J & Venter, IM. Comparing Capacity Building Frameworks for Computer Science Education in Underdeveloped Countries: An African and Asian Perspective. *Proceedings of the 13th Annual Conference on Innovation and Technology in Computer Science Education (ITICSE 2008)*, July, 2008. Madrid, Spain. ACM SIGCSE Bulletin (ISBN 978-1-60558-115-6, DOI 10.1145/1384271.1384352) (Page 306 – 310)
- 2006 Sanga, C, Lwoga, ET & Venter, IM. Open Courseware as a Tool for Teaching and Learning in Africa, *Fourth IEEE International Workshop on Technology for Education in Developing Countries (TEDC'06)*, Iringa, Tanzania, 2006: ISBN: 0-7695-2633-0, (pages. 55-56), doi:10.1109/TEDC.2006.23
- 2005 Venter, IM & Blignaut, RJ. Computer Science: Selection for success. *MIPRO2005*, May, Opatija, Croatia. ISBN 953-233-009-7 (pages 147-152)
- 2005 Blignaut, RJ, Venter, IM & Holtman, L. Assessment and student learning. *MIPRO2005*, May, Opatija, Croatia. . ISBN 953-233-009-7 (pages 153-158)
- 2002 Venter, IM & Roode, JD. Using multiple perspectives to interpret empirical results: Does it add value to the interpretation?, *Proceedings of the 17th World Computer Congress Tele-LEARNING: The challenges for the Third Millennium*, edited by Dom Passey and Mike Kendall. Kluwer Academic Publishers: Massachusetts ISBN 1-4020-7219-8 (Pages 349-356).
- 2002 Blignaut, RJ & Venter, IM. Statistics teaching enhanced by teamwork – a multicultural experience in South Africa. *Developing a Statistically Literate Society*, edited by Brian Phillips. ICOTS2002 (CD ISBN 085590 782 7).
- 2001 Blignaut, RJ, Malan, K & Venter, IM. The Mythical Three-year Degree: Computer Science at UWC and UCT. *SACLA2001* edited by Linda Marshall, June 2001, Bronkhorstspruit. (Pages 33 – 38)
- 2000 Blignaut, RJ, Venter IM & Cranfield, D. Computer based education in a Third World environment: Obstacles in developing a model for distance education in disadvantaged communities. *EDICT 2000*, December 2000, Vienna. (Pages 131 – 138)
- 2000 Blignaut, RJ, Venter IM & Cranfield, D. Fast tracking students from disadvantaged backgrounds into main stream Computer Science. *SAICSIT 2000*, November 2000, Cape Town. (Pages 228-230)
- 2000 Venter, IM, Blignaut, RJ & Stoltz, D. Tailoring IT education for effective IT professionals in a Third World setting, *ECIS 2000 Proceedings of the 8th European Conference on Information Systems*, Vienna (Volume 1, pages 141-146).
- 1999 Blignaut, RJ & Venter, IM. Training Strategies to Underpin Lifelong Learning,, *TWOWS International Conference*, Cape Town.
- 1998 Blignaut, RJ, Venter IM & Stoltz, D. Chalk-and –Talk versus Cooperative Learning. A Comparative Study. *Conference Proceedings of Teleteaching '98 (IFIP'98)* edited by Gordon Davis. Vienna/Budapest (pages 39 – 148)
- 1998 Venter, IM, Blignaut, RJ & Stoltz, D. Collaborative learning paves the way to lifelong learning. *Conference Proceedings of Teleteaching '98 (IFIP'98)* edited by Gordon Davis. (CD)
- 1997 Venter, IM & Blignaut, RJ. Active versus Passive Learning: Can teamwork make a difference? *Conference Proceedings of the First National Seminar on Engineering Education*, UCT edited by Jeni Case and Jeff Jawitz. (Pages303 – 312)
- 1996 Venter, IM & Blignaut, RJ. Teams create the opportunity for interactive lecturing and cooperative learning. *Proceedings of the Fourth CBE/CBT Conference: Information Technology Effective Education/Training*, Pretoria. (Pages 15-22)
- 1995 Venter, IM & Blignaut, RJ. Understanding factors that influence success rate of students in computer literacy, *Proceedings of South African Institute for Computer Scientists and Information Technologists*, May 1995, Pretoria, (Pages 293-296)

E. PUBLICATIONS (continued)	
14 Technical Reports	
Technical Reports	UWC-TRB/2007-01. Venter, IM & Blignaut, RJ. <i>Peer loyalty and plagiarism in the programming environment</i> . (ISBN 978-1-86808-654-2).
	UWC-TRB/2007-02. Blignaut, RJ & Venter, IM. <i>Programming and academic dishonesty in context (lecturers' and postgraduate students' perceptions)</i> . (ISBN 978-1-86808-655-9).
	UWC-TRB/2002-04. Venter, IM & Blignaut, RJ & Holtman, L. <i>The challenge of implementing small group learning to promote conceptualization in the sciences</i> . (ISBN 1-86808-569-4)
	UWC-TRB/2002-02. Blignaut, RJ & Venter, IM. <i>Can small group learning enhance knowledge acquisition of statistical concepts?</i> (ISBN 0-86808-538-2)
	UWC-TRB/2002-01. Venter, IM & Blignaut, RJ. <i>Investigating small group learning in a first year Computer Science course</i> . (ISBN-0-86808-538-4)
	UWC-TRB/2000-03. Blignaut, RJ & Venter, IM.. <i>Exploring new avenues of teaching Statistics?</i> (ISBN 1-86808-474-4)
	UWC-TRB/2000-02. Venter, IM & Blignaut, RJ. <i>Computer literacy enhanced by Computer Based Training. Is it the way forward?</i> (ISBN 1-86808-473-6)
	UWC-TRB/1999-01. Blignaut, RJ & Venter, IM. <i>Towards the 21st century – new trends in tertiary education</i> . (ISBN 1-86808-441-8)
	UWC-TRB/1998-02. Venter, IM & Blignaut, RJ. <i>A changing world necessitates new teaching methodologies</i> (ISBN 1-86808-420-5)
	UWC-TRB/1998-01. Blignaut, RJ & Venter, IM. <i>Alternative Teaching in Statistics explored</i> . (ISBN 1-86808-418-3)
	UWC-TRB/1997-01. Venter, IM & Blignaut, RJ. <i>Computer Science a Team Effort? Using Psychometric Profiles in Team Construction</i> . (ISBN 1-86808-352-7)
	UWC-TRB/1996-01. Venter, IM & Blignaut, RJ.. <i>Understanding Factors that Influence Success Rate of Students in Computer Literacy (1995 Follow-up Survey)</i> . (ISBN 1-86808-287-3)
	UWC-TRB/1995-03. Venter, IM & Stoltz, D. <i>Team Work and Cooperative Learning in Computer Science</i> . (ISBN 1-86808-268-7)
	UWC-TRB/1995-02. Venter, IM & Blignaut, RJ. <i>Understanding Factors that Influence Success Rate of Students in Computer Literacy</i> . Venter, IM & Blignaut, RJ. (ISBN 1-86808-251-2)

F. CONTRIBUTIONS TO INTERNATIONAL CONFERENCES, NATIONAL CONFERENCES, WORKSHOPS ETC.	
14 International conference contributions	
International Conferences & seminars	<p>2015 Venter IM, Blignaut, RJ and Renaud, K. Skills required to design mobile interfaces for diverse users. <i>University of Eastern Finland School of Computing Seminar Series</i>. Joensuu, Finland, 28 January 2015.</p> <p>2013 Blignaut, RJ, Venter IM, and Renaud, K. Training for the globalized workplace. <i>INED Demographic Conference "Future of Populations"</i>. Paris 3-6 Décembre 2013.</p> <p>2013 Venter IM, Blignaut, RJ, and Renaud, K. Reaching out to mobile phone "rookies" in two countries. <i>Proceedings of WCCE2013, WCCE 2013</i>, Torun, Poland, 1-5 July 2013 (Pages 282-283) (ISBN 978-83-231-3095-6).</p> <p>2012 Kroeze, JH, Prinsloo, P, Ponellis, SR, Venter, IM, Pretorius, PD. Graduateness of computing students in a Sub-Saharan African context, <i>AMCIS2012, 18th Americas Conference on Information Systems</i>. Seattle, Washington, 9-11 August, 2012. Paper 11. http://aisel.aisnet.org/amcis2012/proceedings/Posters/11.</p> <p>2007 Sanga, C, Venter, IM, & Agbinya, JI. A Comparative Study Between Qualitative Weight Sum and Analytic Hierarchy Process Methodologies, <i>Symposium of the South African Institute of Computer Scientists and Information Technologists</i>, Fish River Sun, Sunshine Coast, South Africa, Sept 30 - 3 October, 2007. URL: http://www.nmmu.ac.za/saicisit/2007/programme.htm</p> <p>2007 Venter, IM & Blignaut, RJ. Academic dishonesty: How is it viewed by computer programmers? <i>13th International Improving Student Learning Symposium ISL2007</i> 1-3 September 2007, Dublin, Ireland.</p> <p>2007 Blignaut, RJ & Venter, IM. Is the understanding of plagiarism compromised by the concept of source code re-use as is encouraged by the open source movement? <i>13th International Improving Student Learning Symposium ISL2007</i> 1-3 September 2007, Dublin, Ireland.</p> <p>2005 Blignaut, RJ & Venter, IM. Assessment for improved learning (Poster), <i>13th International Improving Student Learning Symposium</i>. London, England, September 2005.</p> <p>2004 Vahed, A, Venter IM & Blignaut, RJ. Automating statistical procedures from electronic questionnaire data using SAS®, <i>SAS Forum International</i>, Copenhagen, Denmark, June 2004.</p> <p>2003 Blignaut, RJ, Holtman, L, Venter, IM. Research methodologies used to explore conceptualization in the sciences through small group learning, (Poster), <i>11th International Improving Student Learning Symposium</i>. 2003, Hinckley, England, September 2003</p> <p>2003 Venter, IM, Blignaut, RJ, Holtman, L. A multidisciplinary view on small group learning in the sciences, <i>11th International Improving Student Learning Symposium</i>. 2003, Hinckley, England, September 2003.</p> <p>2003 Moses, S, Holtman, L, Venter, IM and Stefani, I. Poster: An investigation into small group learning in the life sciences: implications for the participation of females in science, <i>SAARMSTE 2003 Southern African Association for Research in Mathematics, Science and Technology Education</i>, Swaziland, January 2003.</p> <p>2001 Norman, M, & Venter, IM. Attracting and retaining Computer Science students with an exciting and stimulating academic environment: The University of the Western Cape perspective, <i>ADMI and HURSAP Computer Science Curriculum Workshop</i>, Washington D.C., U.S.A., January, 2001.</p> <p>1998 Venter, IM. Introductory Core Courses in Computer Science at the University of the Western Cape, <i>ADMI and HURSAP Computer Science Curriculum Workshop</i>, Washington D.C., U.S.A., January, 1998.</p>
Video Conference	<p>SA/Sweden Collaboration</p> <p>2001 Venter, IM & Blignaut, RJ. Soft Systems Methodology used to explore tertiary teaching interventions, Bellville South Africa, Uppsala Sweden and Göteborg Sweden, 7th June 2001</p>

F. CONTRIBUTIONS TO INTERNATIONAL CONFERENCES, NATIONAL CONFERENCES, WORKSHOPS ETC. (continued)	
	43 Local conference contributions
National Conferences & seminars	2017 Van Greunen, D, Venter, IM, Craffert, L, Veldsman, A, Candi, M, Sigurdarson, HT, Diagnosis of the digital landscape in South Africa – skills, infrastructure and available technologies. <i>EU Common Good First</i> , Port Elizabeth, South Africa, January 2017
	2015 Deaney, MW, Venter, IM and Ghaziasgar, M. A comparison of machine learning techniques for facial expression recognition. Faculty of Science Research Open Day 2015, Bellville, South Africa, 21 October 2015
	2015 Madzande T and Venter IM. Where art thou? Using location-sensing technologies to secure children. Faculty of Science Research Open Day 2015, Bellville, South Africa, 21 October 2015
	2014 Ufitamahoro MJ, Venter IM, Rey-Moreno C & Tucker, WD. A billing system co-designed with a South African rural community using a participatory design methodology. Faculty of Science Research Open Day 2014, Bellville, South Africa, 28 October 2014
	2014 Shayesteh, H, Venter, IM & Ghazi Asgar, M. Demand Forecasting in the Restaurant Industry: Knowledge Discovery Process Model. 4th Design, Development & Research Conference, Cape Town, 8-10 September.
	2013 Ngangom-Tiemeni, GL, Venter IM, Rey-Moreno C and Tucker WD. Rural wireless network performance analysis on the go. <i>Faculty of Science Research Open Day 2013</i> , Bellville, South Africa, 30 October 2013
	2013 Achmed, I, Venter, IM and Eisert, P. Independent hand-tracking from a single 2D view: it's application to South African sign language. <i>Faculty of Science Research Open Day 2013</i> , Bellville, South Africa, 30 October 2013
	2013 Ufitamahoro MJ, Venter IM, Tucker WD and Rey-Moreno C. Unmasking trust issues with field work in a rural community. <i>In Proc. 4th Annual Symposium on Computing for Development ACM DEV-4</i> , (Article 23, 2 pages), Dec 06-07 2013, Cape Town, South Africa, ACM 978-1-4503-2558-5/13/12. http://dx.doi.org/10.1145/2537052.2537075
	2013 Ngangom-Tiemeni, GL, Venter IM, and Tucker WD. A Mobile Tool for Rural Wireless Network Performance Analysis. <i>South African Institute for Computer Scientists and Information Technologists Conference (SAICSIT 2013)</i> , 7 – 9 October, East London.
	2013 Ufitamahoro MJ, Venter IM, Rey-Moreno C and Tucker WD. Promoting Trust for Billing of Services on a Rural Wireless Mesh Network. <i>Proceedings of the Southern African Telecommunication Networks and Applications Conference SATNAC 2013</i> , Stellenbosch, South Africa, 1to 5 September 2013 (Poster)
	2013 Venter, IM, Blignaut, RJ, and Renaud, K. Mirroring real life in a university setting to instill graduate attributes. <i>Teaching and Learning Seminar Series</i> , UWC, Bellville, South Africa. 30 May 2013. (Presentation)
	2012 Ufitamahoro MJ, Venter IM, and Tucker WD. "Developing trust in e-services with the use of wireless mesh networks in rural South Africa", <i>South African Institute for Computer Scientists and Information Technologists Conference (SAICSIT 2012)</i> , 1 – 3 October, Pretoria.
	2012 Azeez, NA & Venter, IM. "Towards achieving scalability and interoperability in a triple domain grid-based environment", <i>Science Faculty Research Open Day</i> , UWC, 31 October 2012
	2011 Chimbwanda, M & Venter, IM. "Evaluating the performance of Mesh Network protocols for disaster scenarios", <i>Science Faculty Research Open Day</i> , UWC, 25-26 October 2011 (poster)
	2011 Bila, NW & Venter, IM. "Mobile money transfer for the unbanked", <i>Science Faculty Research Open Day</i> , UWC, 25-26 October 2011 (poster)
	2011 Azeez, NA, Venter, IM & Iyamu, T. "A Model for Securing Sensitive Information on a Grid ", <i>Annual Masters and Doctoral Symposium of the South African Institute of Computer Scientists and Information Technologists (SAICSIT2011)</i> , Cape Town , 3-5 October 2011
	2011 Azeez, NA, Venter, IM & Iyamu, T "Towards a reliable model for secured resource sharing in a Grid based environment" <i>Design, Development, Research and Postgraduate Research Colloquium Conference 2011</i> , 26-27 September at 80 Roeland street, Cape Town.
	2011 Achmed, I, & Venter, IM. "A discriminative approach in hand-tracking towards the recognition of South African sign language", in <i>Design, Development and Research Conference Colloquium</i> , Cape Peninsula University of Technology, Cape Town, South Africa, 26–27 September, 2011
	2011 Achmed, I & Venter IM. "A Discriminative Approach to South African Sign Language Recognition from a Monocular 2D View", <i>Proceedings of the Southern African Telecommunication Networks and Applications Conference SATNAC2011</i> , 4-7 September, East London.
	2011 Kroeze, J, Prinsloo, P, Ponelis, SJ, Venter, IM, Pretorius, PD. Graduateness of computing students in South Africa: A panel discussion, <i>South African Computer Lecturers Association (SACLA2011)</i> , 6-8 July 2011, Balito, Kwazulu-Natal.
2010 Hoorn, RT, Venter IM & Tucker, WD. Comparison and evaluation of mass video notification for Deaf people. <i>Proceedings of the Southern African Telecommunication Networks and Applications Conference SATNAC 2010</i> , Spier Stellenbosch.	

F. CONTRIBUTIONS TO INTERNATIONAL CONFERENCES, NATIONAL CONFERENCES, WORKSHOPS ETC.
(continued)

National Conferences & seminars	2010	Iraba, ML, Venter, IM & Tucker, WD. Inexpensive Mobile Technologies to empower the rural farmers with mobile agriculture, <i>Proceedings of the Southern African Telecommunication Networks and Applications Conference SATNAC 2010</i> , Spier Stellenbosch.
	2007	Sanga, C, Venter, IM & Agbinya, JI. A Comparative Study Between Qualitative Weight Sum and Analytic Hierarchy Process Methodologies, <i>SAICSIT Masters and PhD. Symposium 2006</i> Elmalik, MB, Blignaut, RJ & Venter, IM. Could PSPP replace the SPSS eventually? A comparative study to investigate the "SPSS look alike" software PSPP. <i>SASA 2006</i> , Stellenbosch
	2006	Parker, M, Stofberg, M, De la Harpe, R, Venter, IM & Wills, G. 2006. Data Quality: How the flow of data influences data quality in a Small to Medium Medical Practice (SMMP). <i>Community Informatics for developing countries 2006 Conference</i> . Cape Town, South Africa. September 2006.
	2006	Elmalik, MB, Blignaut, RJ & Venter, IM. Could PSPP replace SPSS? A comparative study. <i>Statistics Seminar Series 2006</i> , University of the Western Cape.
	2006	Sanga, C & Venter, IM. (2006). Using Soft Systems Methodology to Understand how to Exploit Learning Technologies in Developing Countries, <i>Education Students' Regional Research Conference organized by Five Higher Learning Institutions of Western Cape</i> , November 2006, PET- University of the Western Cape, South Africa
	2004	Makola, DJM & Venter, IM. Poster Evaluation of the South African Continuing Professional Development (CDP) Programme: An activity theory approach., <i>SAICSIT 2004 South African Institute for Computer Scientists and Information Technologists</i> , Stellenbosch, South Africa, October 2004
	2004	Parker, MB & Venter, IM. Poster Using a Business Intelligence Data Model to analyze data within a Small to Medium Medical Practice (SMMP), <i>SAICSIT 2004 South African Institute for Computer Scientists and Information Technologists</i> , Stellenbosch, South Africa, October 2004
	2004	Parker, MB & Venter, IM. Poster A Soft Systems Methodology approach to Decision Support in a Small to Medium Medical Practice (SMMP), <i>HISA 2004 Cost Effective Health Informatics Initiatives for Southern Africa</i> , Kimberly South Africa, October 2004
	2004	Makola, DJM & Venter, IM. Poster Using activity theory to research the South African Continuous Professional Development (CPD) system <i>HISA 2004 Cost Effective Health Informatics Initiatives for Southern Africa</i> , . Kimberly South Africa, October 2004
	2003	Moses, S, Holtman, L and Venter, IM.: Small group learning in the Life Science: The participation of females in Science, <i>Zoological Society of Southern Africa (ZSSA) Conference</i> , Cape Town, June 2003
	2001	Venter, IM & Dreijer, MW. Paper The growing role of IT in Higher Education. <i>HER-SA2001</i> , Cape Town October 2001.
	2001	Blignaut, RJ & Venter, IM. Paper Using Belbin's theory to build effective teams for the teaching of Statistics, <i>SASA2001</i> , Goudini, November 2001
	2001	Vahed, A, Venter IM & Blignaut, RJ. Paper Publishing statistical findings to the WEB using SAS®, <i>SASA2001</i> , Goudini, November 2001
	2001	Blignaut, RJ, Malan, k, Venter, IM. Paper The Mythical Three-year Degree: Computer Science at UWC and UCT, <i>SACLA 2001</i> , Bronkhorst Spruit, June 2001
	2000	Venter, IM & Blignaut, RJ. Paper UWC's first-year Computer Science experience, <i>Interface 2000</i> , Pretoria, May, 2000
	2000	Venter, IM. Participated in a panel Can we afford to re-teach in first year? <i>Interface 2000</i> , Pretoria, May, 2000
	1998	Blignaut, RJ, Venter, IM & Stoltz, D. Paper Adapting to a changing world - alternative teaching methods explored., <i>Pentech Seminar</i> , Bellville, August 1998
	1997	Venter, IM & Blignaut, RJ. Paper Active versus Passive Learning: Can teamwork make a difference?, <i>Centre for research in engineering Education (CREE) Conference</i> , Cape Town, Sept., 1997
	1997	Blignaut, RJ & Venter, IM. Paper Learning with a difference - Teamwork and Co-operative learning. <i>SASCAPE Seminar</i> , Bellville, October 1997
	1996	Venter, IM & Blignaut, RJ. Dealing with computer literacy in a multicultural, multilingual South African university population, <i>SAS User Group in South Africa Conference</i> , Stellenbosch, October, 1996
	1996	Venter, IM & Blignaut, RJ. Dealing with computer literacy in a multicultural, multilingual South African university population, <i>SAS User Group in South Africa Conference</i> , Stellenbosch, October, 1996
	1996	Venter, IM & Blignaut, RJ. Teams create the opportunity for interactive lecturing and cooperative learning, <i>Fourth Computer Based Education Conference</i> , Pretoria, October, 1996

G. TEACHING EXPERIENCE / PORTFOLIO			
Curriculum Development & Teaching	University of Stellenbosch, Saldanha	Computer Information Systems	<p>Developed courses for first year students.</p> <p>Lectured the course Computer Information Systems I. Compiled the course, planned projects and tutorials. Wrote application and system programs for the subject Computer Information Systems.</p> <p>Did the planning of the curriculum for each course up to third year level. Coordinated the lecturing personnel in the department.</p>
	University of Stellenbosch Business School	MBA Information Systems course	Lectured the course Business Information Systems to MBA students. Introduced group presentations on recent developments in the ICT field.
	University of the Western Cape	Computer Fundamentals	Initiated the course in 1988. Developed the curriculum, course material as well as tutorial material. Continually evaluated and changed the course. To address the students' background disparity, Computer Based Training was implemented in 2000 and is still being used.
		Human Computer Interaction	Initiated this course in 2004. Developed the curriculum and course material. A project that includes the Software Engineering and Database component of the CSC312 course forms an integral part of the course. Students work in teams and present prototypes of their work at the end of the course.
		Data Communications and Computer Networks	Initiated this course in 1992 and taught it until 2001. Developed the curriculum and course material. A project and installation of a small network formed an integral part of the course.
		Operating Systems	Initiated this course in 1992 and taught it until 2002. Developed the curriculum and course material. A presentation formed an integral part of the course.
		Computer Architecture	Have been teaching this course since 2002. Use mind or concept maps and teamwork effectively in this course.
		Computer Networks Honours Course	Initiated Computer Networks course in 1997 – taught it until 2001.
		Java	Initiated this course in 1999. Developed the curriculum and course material. To address the disparity in backgrounds of the students, Small Group Learning was implemented in 2000.
	Innovative Teaching	To create an environment where students can acquire life long skills, conventional teaching is being complemented with group learning.	
Maintaining a level of study and inquiry	HCI undergraduate students do a literature survey on mobile security, conduct a survey amongst students and present their findings. Throughout the process the students are monitored.		

H. POSTGRADUATE STUDENTS SUPERVISED				
5 PhD's and 10 MSc students completed				
Name of students	Degree/supervised and title of the thesis	Year Qualified	Gender	
Ola Omolola Bankole	PhD Predictors of Design and Adoption of Collaborative eLearning Environments: A Multi-Method Analysis using Data Mining	(2016)	F	
Hamza Alkanoni		(2015)	M	
Andy Bytheway		April 2016 (2013 - 2015)	M	
Michael Norman		April 2016 (2012 - 2015)	M	
Imran Achmed		March 2014 (2011-2013)	M	
Nureni Ayofe Azeez Co-supervisor		March 2013 (2010 – 2012)	M	
Camelius Sanga		March 2010 (2006-2009)	M	
Saira-Banu Adams	Gender in Computer Science – bridging the divide	(2017)	F	
Ntombesisa Mateyisi	Digital Storytelling for social innovation	(2017)	F	
Menia Alkeilani	MSc The components of a voice signature	(2015)	F	
Kurt Jacobs (co-supervisor)		South African Sign Language Hand Shape and Orientation Recognition on Mobile Devices Using Deep Learning	April 2017 (2015 - 2016)	M
M Waleed Deany		A comparison of machine learning techniques for facial expression recognition	(2015)	M
Ghislaine L. Ngangom Tiemeni		Performance estimation of mobile communication using traffic generation and monitoring on a mobile device	Sept 2015 (distinction) (2013 – 2015)	F
Marie Josée Ufitamahoro		Understanding the factors that influence trust in e-services: A case study of a mesh network implementation in Mankosi, South Africa	March 2015 (2012 – 2014)	F
Marie-Louise Iraba		Inexpensive mobile technologies to empower rural farmers with mobile-agriculture (MSc (CS))	March 2012 (2010 -2011)	F
Ryno Hoorn		Comparison and evaluation of mass video methods used to assist Deaf people (MSc (CS))	Sept 2012 (2010 – 2012)	M
Mohammed Rahmann Mojadadi		The influence of interfaces on the understanding of set theory in mathematics by secondary school learners in Afghanistan (MSC (CS))	March 2011 (2006 – 2010)	M
Lorén Wesso (co-Supervisor)		Understanding the influence of a student's academic profile on the student's ability to become Computer literate (MSc (Stats) with a mini thesis)	March 2010 (2008 – 2009)	M
David Makola		Evaluation of the South African Continuing Professional Development (cpd) Information System using Activity Theory (MTech (Information Technology))	2009 (2005 -2008)	M
Marlon Parker	Using ontologies for information management within small to medium medical practices (SMMPs) (MTech (Information Technology))	2007(distinction) (2005-2007)	M	
Aneeqah Vahed	Reporting research findings to the web MSc (CS)	March 2003 (2001 – 2002)	F	

H. POSTGRADUATE STUDENTS SUPERVISED			
44 Honours students (completed successfully)			
Name of students	Title of the project	Qualified	Gender
Gercia Lewis	eShop: Online shopping		F
Tovide A E Semande	eBooking system for UWC computer laboratories		F
Siya Ntolo	eQueue		M
Ntombesisa Mateyisi	Digital Storytelling	2016	F
Wongakazi Pambuka	Qswift (<i>cum laude</i>)	2016	F
Ferlind Hendricks	WeLearn with e-learning	2016	M
Andrew Steven Muller	E-learning with the use of mobile applications	2016	M
Takudzwa Madzande	Where art thou? Using location-sensing technologies to secure children	2015	M
Mogamat Waleed Deaney	Lip reading to text	2014	M
Zakhele Mfanafuthi Ntuli	Adding a video notification to SignSupport	2014	M
Cebile Fortunate Miya	VibeSense	2014	F
Buhle Bongco	Mobile reminder to improve medicine compliance of Deaf or patients with low literacy levels	2013	F
Siphokazi Dayile	Mobile information for the Deaf	2013	F
Zine Cynthia Tshaka	A mobile application to interact with a mesh billing system	2013	F
Toluwaleke Ademuyiwa	A bio specimen barcode reader and updater mobile application	2013	M
Gloria Padua	Employer Management System	2013	F
Livie Ngangom	Distributed database system for business transactions	2012	F
Nhlakanipho Ndlamlenze	Mobile banking with PayPal	2012 (incomplete)	M
Allen Mwangonde	Notephones system	2012	M
Ntsako Bila	Mobile banking	2011	M
Maggie Chimbwanda	Emergency mesh networks	2011	F
Shadrack Mehlokuu	Bluetooth access control	2010	M
Akhona Mahangu	Minute management system	2010	F
Marie-Louise Iraba	Student residence management system	2009	F
Ryno Hoorn	Mobile online sign language dictionary to improve English literacy amongst the Deaf	2009	M
Aluwani Witness Tshishonga	An intelligent part-of-speech tagger for Tshivenda	2008	M
Zimane Chitedze	UWC online registration	2008	M
Olabambo Owasula	A web-based e-learning system for honours Computer Science	2008	M
Jameel Adam	Enhanced podcast forum for e-learning	2007	M
Irshaad Hoesain	SMS (and e-learning) notification for marks administration	2007	M
Hamza Quick	A real-time VoIP chat system designed for an open source e-learning environment	2007	M
L Madubedube	Web-based printing	2006 (incomplete)	M
Lira Moeti	Web-based printing	2006	M
Moneeba Cassiem	Web based student progress tracking system	2004	F
Envar Saaiman	On demand printing	2004	M
Kelvin Andrews	Web submission of programming assignments	2004	M
Dewar Smith	Writing online content to a CD (to be used offline)	2004	M
Toivo Kamati	Web-based help desk	2003	M
Sakhile Mkwhanazi	Web-based help desk	2003	M
Janine Barnes	Online Questionnaire GUI. A comparison of Java and XML implementations	2001	F
Tasneem Shaik	Online programming assignment submission system	2001	F
Fayros Jaffer	WEB enabled career guidance consultant	2001	M
Rafiq Hay	Online resource booking system	2001	M
Satish Byrow	Database manipulation on the internet using PHP and ASP	2000	M
André Classen	Instructor led Web touring in a collaborative educational environment	2000	M
Reza Inglis	Web-based help desk for first-year Computer Science students	2000	M
Kayaletu. Mangaliso	Online questionnaire that facilitates immediate data retrieval for statistical analysis.	1999	M
Kosi Makwati	Online registration for first year students	1999 (incomplete)	M
Anderson S. Mengeni	Network directory services	1997	M
André G. Kiewietz	Virtual Reality marvel or monster?	1994	M

I. ACADEMIC PROFILE/STANDING	
National Research Foundation	Rated C3 researcher, 2016 – 2021
	Rated L researcher, 2002 – 2006
	Reviewer for rating applications in 2009, 2010, 2011, 2012, 2014 and 2015
	Reviewer for funding applications 2002, 2003, 2005, 2006, 2009, 2010, 2015 and 2016
	Reviewer for Masters and PhD Applications 2013, 2014
Examined 52 Masters as well as 10 PhD theses.	
Masters Examiner	<p>MSc (Information Technology) minor dissertation, IF Nonso. <i>Decision tree classifiers for incident call data sets</i>, July 2017, UCT, Cape Town</p> <p>MA (Information Technology), Ms Allisson CE Mentoor. <i>Social networking services in support of patient centred care: a South African perspective</i>, February 2017, NMMU, Port Elizabeth</p> <p>MSc (Computer Science), Mr Kulani M. Mhlongo. <i>Assessing the diffusion and use of mobile payment solutions: A case of South African townships</i>, September 2016. University of South Africa.</p> <p>MSc (Computer Science), Mr Nathan de la Cruz. <i>Autonomous Facial Expression Recognition using the Facial Action Coding System</i>, January 2016, University of the Western Cape, Cape Town.</p> <p>MSc (Computer Science), Mr Gershwin A Sauls. <i>Information security concerns around enterprise “bring your own device” adoption in South African higher education institutes</i>, December 2015, Rhodes University, Grahamstown.</p> <p>MTech (Information Technology), Mr Rudolph Godfrey. <i>Instructional technology for the teaching of novice programmers at a university of technology</i>, May 2015, Cape Peninsula University of Technology, Cape Town.</p> <p>MEd (Computer Science Education), Ms SC van Zyl, <i>The teaching of Scratch to assist with the learning of Delphi as an object orientated programming language</i>, November 2014, University of the North West, Potchefstroom.</p> <p>MSc (Computer Science), Mr Charels Madebwe, <i>An investigation into the role played by perceived security concerns in the adoption of mobile money services</i>, July 2014, Rhodes University</p> <p>MSc (Computer Science), Mr Ibrahiem Frieslaar, <i>Robust South African Sign Language gesture recognition using hand motion and shape</i>, Jan 2014, UWC</p> <p>MSc (Computer Science), Mr Amir Kror Shahidzay, <i>Development of a Health Management Information System using Agile software-engineering methods</i>, Jan 2014, UWC</p> <p>MEd (Computer Science Education), Ms Roxanne Bailey, <i>Information Technology teachers’ experience of multimedia-based professional development</i>, 21 January 2013, University of the North West, Potchefstroom.</p> <p>MSc, Mario Fisher, <i>Performance benchmarking physical and virtual LINUX environments</i>, 31 August 2012, University of Cape Town, Cape Town.</p> <p>MSc, Mr Eldridge van der Westhuizen, <i>A framework for personal health records in online social networking</i>, 12 February 2012, Nelson Mandela Metropolitan University, Port Elizabeth.</p> <p>MSc, Mohammed Tariq Meeran, <i>An analyses of voice over Internet Protocol in wireless mesh networks</i>, January 2012.</p> <p>MSc, Mr Morice Daudi, <i>Modelling and Management of Evolution of Rational Trust in Business Organisations</i>, April 2012, University of Dar-es-Salaam, Tanzania.</p> <p>MTech, Mr Mabule Samuel Mabakane, <i>Scaling of scientific software applications on CHPC clustering environment</i>, May 2011, Tswane University of Technology</p> <p>MSc, Mr Daniel Ngondo, <i>Performance assessment of MC-CDMA based broadband power-line communication: A case study of a congested power-line network</i>. June 2011, Dar-es-Salaam, Tanzania</p> <p>MSc, Mr Wilfred F. Senyoni, <i>Development of a web-based examination management information system for USDM long distance programmes</i>, March 2011, Dar-es-Salaam, Tanzania</p> <p>MSc, Mr Gregory E. Doyle, <i>The impact of podcasting on health sciences’ pre-clinical student performance at the University of Cape Town</i>, May 2011, University of Cape Town</p> <p>MSc, Mr Muyowa Mutemwa, <i>A mobile Deaf-to-hearing communication aid for medical diagnosis</i>, July 2011, UWC</p> <p>MSc, Mr Jameel Adam. <i>Video annotation wiki for South African Sign Language</i>, January 2011.</p> <p>MSc, Mr David Wafula Wanyonyi. <i>Mobile presentations with interactive chat for m-learning</i>, December 2010.</p> <p>MSc, Mr Alfred John Msasu. <i>Challenges and strategies for improving use of health information for action in managing district health systems and programmes</i>, August 2010.</p> <p>MSc, Mr Abubakar Diwan Bakari. <i>Development of An Integrated Web and GIS Based Data Visualization Tool to Improve Existing District Health Information Software in Health Sector of Zanzibar</i>, June 2010.</p> <p>MSc, Mr Allan Gallus Msolla. <i>Design and implemetation of a decision support system for crop scheduling in Tanzania: The case of the Morogoro Region</i>, June 2010.</p> <p>MSc, Ms Patricia Sundaram Chilaisha. <i>Analyzing the Process of Integration of Health Information Systems form Technical and Institutional Perspectives</i>. May 2010</p> <p>MSc, Ms JA Liebenberg. <i>Secondary school girls’ experiences of pair- programming in Information Technology</i>, December 2009</p> <p>Invited external examiner for 3 M.Sc’s at the Zanzibar University, Stone Town, Zanzibar in June 2009</p> <p>MSc, Ms XiangQi Gong. <i>Election Markup Language based tele-voting system</i>, May 2009.</p> <p>MSc, Mr Zhenyu Ma. <i>Video for Deaf Telephony with an Adapted Synchronous Codec</i>, April 2009.</p> <p>MSc, Mr Frederick Kinyua Kamanu. <i>Computational verification of published human mutations</i>, January 2009.</p>

I. ACADEMIC PROFILE/STANDING (continued)	
Masters Examiner	<p>MSc, Mr Sayed Hassan Adelyar. <i>The complexity of Splay Trees and Skip Lists</i>, January 2009. Invited external examiner for 7 M.Sc. Students' defenses at the Eduardo Mondlane University, Maputo, Mozambique. June 2005</p> <p>MSc, Mr Reginald Raymon Ceasar. <i>Investigating an integrated teaching methodology as a means to prepare students for university studies in Mathematics</i>. December 2005</p> <p>MSc, Mr Xolisa Vuza. <i>Social and Technical issues of IP-Based Multi-Modal Semi-Synchronous communication: Rural Telehealth Communication in South Africa</i>. December 2005</p> <p>MSc. <i>An investigation into field-based learning and students understanding of ecological concepts: Implications for conceptual change</i>. February 2004</p> <p>MSc, <i>An evaluation on the impact of foundation programme students on the civil engineering mainstream programme at Peninsula Technikon</i>. December 2004.</p> <p>M Ed, <i>The impact of inclusive education in special and developed/normal schools as perceived by parents, educators and learners in Soweto schools</i>. Faculty of Education, Vista University, Soweto. December 2003.</p> <p>MSc, <i>Using e-learning to support IT education in a university environment: a case study approach</i>. Department of Computer Science, University of Port Elizabeth. January 2003.</p> <p>MSc, <i>Evaluation of computer-based tutorials at UWC: perceptions, advantages and challenges</i>. Department of Statistics, University of the Western Cape. July 2003</p> <p>MTech, <i>An analysis of the factors that influence effectiveness in information technology student project teams</i>. Department of Information Technology, Port Elizabeth Technikon. October 2003.</p> <p>Invited external examiner for 2 M.Sc. Students at the Eduardo Mondlane University, Maputo, Mozambique. December 2002.</p> <p>M Ed, <i>Outcomes-based computer literacy programme in distance learning mode</i>. Vista University, Bloemfontein. October 2002</p> <p>MSc, <i>Creative teaching in Statistics using Multi-media</i>, Statistics Department, UWC. July 2002.</p> <p>Moderator for Operating Systems III, Peninsula Technikon 1999.</p> <p>Moderator for Communication and Network Course, Peninsula Technikon, November 1993 and 1995</p> <p>Moderator for Operating Systems III, Cape Technikon, November 1994 and 1995</p>
Ph D Examiner	<p>PhD (Computer Science). Kolog, Awuni Emmanuel. <i>Contextualising the Application of Human-Language Technology for Counselling</i>, August 2017, Joensuu: University of Eastern Finland</p> <p>PhD (Information Systems), JW Kamau. <i>Adoption of free desktop open source software in developing countries in Africa: A case of Kenyan university students</i>, June 2017, UNISA, Pretoria</p> <p>PhD (Computer Science), MA Schoeman. <i>Enhancing Comprehension in open distance learning computer programming education with visualization</i>, January 2016, UNISA, Pretoria</p> <p>PhD (Computer Science), Marcus Duveskog. <i>Digital storytelling for HIV and AIDS education in Africa</i>, January 2015, University of Eastern Finland, Finland</p> <p>PhD (Computer Science), Mr BP Haskins. <i>A mathematics rendering model to support chat-based tutoring</i>, July 2014, Nelson Mandela Metropolitan University, Port Elizabeth</p> <p>PhD (Information Technology) Ms Helen A. van de Haar. <i>A framework for biometrics for social grants in South Africa</i>, Feb 2014, Nelson Mandela Metropolitan University, Port Elizabeth</p> <p>PhD (Computer Science), Mr Jakkaphan Tangkuampien <i>A community-based approach to new medium integration in South African education: a combination of (an) ICT4D process approach and ethnographic action research techniques</i>, 29 July 2013, University of Cape Town, Cape Town.</p> <p>PhD (Computer Science), Mr Addmore Machanja <i>Towards a Chereme Based Dynamic South African Sign Language Gesture Recognition System</i>, July 2008. University of the Western Cape</p> <p>PhD (Computer Science) Mary Lynne Hallot, <i>Digital Watermarking Methods for Data Security and Authentication</i>, August 2008.</p> <p>PhD (Computer Science), Mr Venkatesh Mahadevan, <i>Models of an Application Framework for a Telecollaboration Business System</i>. July 2007 Faculty of Engineering, Swinburne University of Technology, Sydney, Australia..</p>
Reviewer for Council on Higher Education	<p>Appointed as programme evaluator for the Higher Education Quality Committee of the Council on Higher Education in 2004, 2005, 2006, 2010, 2011, 2012, 2013, 2014, 2015 and 2016</p> <p>Attended a programme evaluator's workshop in 2013.</p> <p>Served on a site visit panel to re-accredit an institution for the HEQC in 2012.</p> <p>Attended an Auditor's training workshop in 2006, and 2008</p> <p>Served on an Audit Panel for a private tertiary institution in August 2006</p>
Advisor	<p>South African Universities Vice Chancellors' Association Learning Field Committee for Computer Science, February 2001 – December 2002</p>
Adjunct Professor	<p>2008 Appointed as Adjunct Professor at the Cape Peninsula University of Technology.</p>
General	<p>Reviewed Fort Hare's Computer Science Department in 2010.</p>

I. ACADEMIC PROFILE/STANDING (continued)			
COLLABORATIVE LINKAGES			
Institution	Nature of Collaboration	Collaborator	Year
UCT	Learning in Science and Engineering Reading Group	Jeff Jawitz, Jeni Case	2000-2003
Sweden/Uppsala and Göteborg	Video Conferencing (SIDA/NRF Funded)	Shirley Booth, Mat Daniels	2000-2001
Cape Peninsula University of Technology	Mentoring of PhD student - TRD2005070100128 - The deployment of quality e-data	Retha de la Harpe	2003, 2008
University of Maryland College Park	Co-supervision of Masters student from Kabul and publications.	Jan Plane	2006
Makerere University, Faculty of Computing and Informatics Technology	Attended a Summit on Development of Relevant Computing Curricula for Sub-Saharan Africa	Idris Rai	2010- 2012
University of Wisconsin, Milwaukee	Worked on several collaborative publications	Shana R. Poneis	2011 - current
University of Glasgow, Scotland	Collaborating on a mobile phone project	Karen Renaud	2011- current
Glasgow Caledonian University	Erasmus + EU Project	Julie Adair	2015 - 2019
University of Stellenbosch	Collaborating on the evaluation of graduate attributes and the determining of an effective admissions point system	Ian Cloete	2014

J. COMMUNITY INVOLVEMENT			
University	Interview	Interview at Bush Radio "Women in IT", 10 September 2001	
	Chairperson	Department of Computer Information Systems, University of Stellenbosch, Saldanha. 1985 –1986. Department of Computer Science, UWC. July 2005 – April 2017, and in 1993.	
	Deputy Chairperson	Department of Computer Science, UWC: 2004 – July 2005, 2001-2002, 2000, 1993 –1996	
	Member of committees:	Senate	2005 - currently
		Enterprise Architecture & Information Systems Committee of Senate and Council	2012 - currently
		Science Faculty Management Committee	2005 - 2017
		Representative of the Faculty of Science on the Faculty of Economic and Management Sciences Faculty Board.	1990 – 2005.
		Faculty of Science Academic Development Committee	1993 -1995
		Working Group on Computer Training	1999
		Research and Study Leave Committee	2000, 2001, 2004 – 2005, 2013 - currently
		Post Graduate Studies Committee	2001, 2004 - 2005
Science Faculty Computing Committee		2002	
Student Affairs sub-committee,	2003 - 2005		
Trustee	Administration of technical reports at UWC 1998 - currently Trustee of the university of the Western Cape Pension fund. 2003 - current		
Academic	Other contributions	Session chair for: SATNAC, 2013, 2014, 2015, 2016, AMCIS 2015 and Interact 2013 , Showcasing ICT research in the Western Cape 2011, Digital Freedom Exposition April 2007. Co-editor of the CISNA Proceedings 1994.	
	Reviewed papers for journals and conferences	Served on the Technical Program Committee for: IRM 2016, AMCIS 2015 & 2012; AFRICOMM 2011–2012; SATNAC 2011–2016; SAICSIT 2011–2016; SACL 2010 & 2016; Reviewed articles for: Journal of Engineering, Design and Technology, 2013, 2016 International Journal of Human Computer Studies, 2014, 2015, 2016 European Journal of Social Science, 2015 South African Computer Journal (SACJ), 2013, 2014, 2017 Education as Change: Journal of Curriculum Research 2013 International Journal of Engineering and Technology Research 2013 Information Technology for Development 2013 The Journal for Transdisciplinary Research in Southern Africa, 2012 Computers & Education 2007, 2008, 2009, 2010 and 2012 South African Journal of Education (SAJE) 2006.	

J. COMMUNITY INVOLVEMENT		
	Chairperson	1st Bellville Scout Troop 1992 - 1994
Other	Member	Institute of Information Technology Professionals South Africa (IITPSA) Computer Scientists and Information Technologists (SAICSIT) Third World Organisation for Women in Science (TWOWS) Association for Information Systems (AIS)

K. REFERENCES	
Name and address	Telephone number
Prof. Michael Davies-Coleman Dean of Natural Sciences University of the Western Cape PBag X17, Belville 7535, South Africa	☎ +27-959 2762 ✉ mdavies-coleman@uwc.ac.za
Prof. Idris Rai Vice Chancellor The State University of Zanzibar (SUZA) P.O.Box: 146, Zanzibar-Tanzania	☎ +255-24-2233337 ✉ vc@suza.ac.tz
Prof. Ian Cloete Senior Director institutional Research and Planning University of Stellenbosch Private Bag X1 7602 Matieland	☎ 021 808 2720 ✉ ic9841@gmail.com or ic@sun.ac.za
Prof. Sonia Berman Head of the Department Department of Computer Science Cape Town University Cape Town	☎: 021 21 650 2668 ✉ sonia@cs.uct.ac.za
Prof. Brink van der Merwe Department of Mathematical Sciences Computer Science Division University of Stellenbosch Private Bag X1 7602 Matieland	☎ 021 808 3282 ✉ abvdm@cs.sun.ac.za
Prof. Retha de la Harpe Information Technology Faculty of Informatics and Design Cape Peninsula University of Technology Cape Town	☎: 021 469 1015 ✉ delaharper@cput.ac.za