

Associate Professor: André du Plessis (PhD)
16 August 2022

CURRICULUM VITAE

Associate Professor André du Plessis (PhD)

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QUALIFICATIONS

- Leadership Effectiveness Advancement Programme Certificate. Nelson Mandela University Business School [2018].
- PhD (ICT in Education), Nelson Mandela Metropolitan University (NMMU) [2010] [Focus on school management aspects, ICT implementation and management in education, ICT strategy developed and implementation, management & implementation of ICT within schools for education, ICT learning strategies]
- Master's Research Thesis section (ICT in Education), Rhodes University (Cum Laude) [2004] [ICT hypermedia for teaching and learning as focus]
- B-Ed Honours Elective ICT Module for entrance into MEd completed [ICT implementation, strategies and management], Rhodes University (Distinction) [2000]
- BA Degree, University of Port Elizabeth (Cum Laude) [1991] [History, Biblical Studies and Education as major subjects]
- Higher Diploma in Education, 1-year qualification, Port Elizabeth Teachers College (Distinction or Cum Laude) (1989)
- Diploma in Education, 3-year qualification Port Elizabeth Teachers College (Distinction or Cum Laude) [1988]
- Matric [1985]

OFFICIAL COMPLETED CERTIFICATES

- Higher Education South Africa HESA LEAD Leadership Scholarship Certificate (2014)
- South African Teaching Advancement at University (TAU) Fellowships Certificate (2016)

WORK EXPERIENCE

Current position

- Associate Professor, Nelson Mandela Metropolitan University (appointed January 2015)

Previous positions

- Senior Lecturer, Nelson Mandela Metropolitan University (January 2012- December 2014)
- Lecturer: Nelson Mandela Metropolitan University (2007 to 2011)
- Lecturer: Advanced Certificate in Education (ACE) Information Communication Technology (ICT) at Nelson Mandela Metropolitan University [Contract Based] (February 2005 to December 2006)
- Head of Department: Mount Pleasant Primary School (July 1996 to 31 May 2007)
- Teacher: Tjaart van der Walt Primary (April 1996 to June 1996)
- Teacher: Newton Park Primary (July 1994 to March 1996)
- Teacher: Tjaart van der Walt Primary (January 1992 to June 1994)

Lecturing, teaching & school experience in years

- 13 years 9 months full time (Nelson Mandela Metropolitan University)
- 2 years part-time (Nelson Mandela Metropolitan University: 2004 to 2005)
- 14 Years (School-based, Eastern Cape Department of Basic Education: 1993 to April 2007)

INTERNATIONAL TEACHING EXPERIENCE & INVITATIONS

- Teaching at the University of Siauliai in Lithuania in October 2013 related to qualitative methodology
- Teaching at the Colchester Institute in the Department of Education, affiliated to the University of Essex in January 2018 related to Visual Participatory Methodologies
- Teaching and research at the University of Maribor in Slovenia in January and February 2019 related to pedagogy and research related to school based student and teacher mentoring

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- Teaching at the Colchester Institute in the Department of Education, affiliated to the University of Essex in January 2020 related to pedagogy and research related to school based student and teacher mentoring
- Invited to teach and collaborate on research at the University of Maribor in Slovenia in April 2020 related to pedagogy and research related to school based student and teacher mentoring, as well as ICT in Education [Postponed due to COVID-19 lockdown]
- Taught and collaborate teaching wise with fourth year students in the five year Teaching Qualification for 16 hours in March 2021 online by Means of MsTeams, Padlet, Interactive WhiteBoard and Note Book Interactive Collaboratio Tool at the University of Maribor in Slovenia in March 2021 related to:
 - Mentoring
 - Conflict management
 - Developing a teaching philosophy
 - Classroom management scenarios and problem solving
 - Learning theory
 - Teaching strategies
 - Change and Innovation theory
 - ICT usage for teaching and learning
 - Blended Learning and Flipped Learning
 - ICT presentation means for presenting a teaching portfolio other then PowerPoint in the traditional way
- Teaching PGCE students from 14 March 2021 onwards for 3 hours per week until end of April at the Colchester Institute affiliated to the University of Essex and HuddersField in the UK:
 - Developing a teaching philosophy
 - Classroom management scenarios and problem solving

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- Change and Innovation theory
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- ICT presentation means for presenting a teaching portfolio other than PowerPoint in the traditional way

RESEARCH AND CREATIVE WORKS

Special Prestigious Research Awards

- NMMU Faculty of Education: Emerging Researcher of the Year (2012) [Field of Research: ICT in Education]

Research Leadership, Positions & Committees

- Initiator of Educational Research for Social Change (ERSC) in 2012: Blind Peer-Reviewed Academic Journal [Initiating and establishing research publication platform]
- Co-Editor-in-Chief of DHET accredited journal, Educational Research for Social Change <http://ersc.nmmu.ac.za>
- Web designer and maintaining Educational Research for Social Change (ERSC) online

Plenary invited speaker

- Du Plessis, A. (2020). An exploration of students' perceptions and experiences of school-based mentoring to inform faculties' mentoring and mentee thinking. Keynote presentation at the Colchester Institute in the Department of Education, affiliated to the University of Essex in January 2020.
- Du Plessis, A. (2018). Student generated cellfilms as a tool to 'learn with' with a view to promote students' learning and assessment experiences in the 'Education as Thinking' module: Possibilities and Challenges. Keynote presentation at the 2nd Symposium SOLT Programme 2018, Improving Learning and Teaching through Scholarship of Learning and Teaching, 27 to 28 November 2018, Walter Sisulu University.
- Du Plessis, A. (2014). An ICT learning-to-design heuristic to promote science learning: using PowerPoint in an "unintended" mode. Plenary keynote presented at the Eastern

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Europe IOSTE National Conference, Hradec Karlove University, Czech Republic, 15-18 September 2014.

- Du Plessis, A. (2014). Cyberhunts: Technology usage meeting levels of cognitive thinking and critical outcomes in all subjects, including science. Video keynote presented at the Natural Science Education in Comprehensive Schools 2014 Conference, Panevėžys, 25–26 April, 2014.
- Du Plessis, A. (2014). Using ICT for teaching and learning - Inclusivity: Present key address at the book launch of Dr Christo Pienaar, September 2014.
- Du Plessis, A. (2013). Wikis and PowerPoints as cognitive development tools in Scientific Literacy. Keynote presentation at the International Scientific Conference, “Information & communication technology in natural science education – 2013”, 23-27 October 2013, Siauliai, Lithuania.
- Du Plessis, A. (2011). Internet learning through learners as designers of Extended Cyberhunts: A South African Developed Strategy. Keynote presentation at the Africa Higher-Ed ICT Conference, Johannesburg, 30-31 March 2011.

Also conference chairperson at Africa Higher-Ed ICT Conference, Johannesburg, 30-31 March 2011.

Submitted to accredited journals in 2022

- Virtic-Ploy, M., Sorgo, A. & Du Plessis, A. (submitted in 2022 for review). Development and validation of the “Mentoring for effective teaching practicum instrument”.
- Du Plessis, A. & Ismail, B. (submitted in 2022 for review). Postgraduate Certificate in Education (PGCE) students’ experience of mentoring

Publications in books or book chapters

- Du Plessis, A. & Subramanien, B. (2021). Teacher usage of ICT in South Africa in a Multigrade Context. In L. Cornish & M. J. Taole (eds.), *Perspectives in Multigrade Teaching: Research and practice in South Africa and Australia*, (pp. 119-140). Switzerland: Springer.
- Du Plessis, A. & Subramanien, B. (2021). Challenges that multigrade teachers Experience in Implementing Information and Communication Technologies. In L.

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Cornish & M. J. Taole (eds.), *Perspectives in Multigrade Teaching: Research and practice in South Africa and Australia*, (pp. 213-241). Switzerland: Springer.

- Du Plessis, A. and Blignaut, S. (2020). Offline - Online Information and Communication Technology (ICT) Teaching and Learning Strategy in the Age of COVID-19 and Beyond. In N. Ndimande-Hlongwa, L. Ramrathan, N. Mkhize, and J.A. Smit, *Technology-based Teaching and Learning in Higher Education during the Time of COVID-1* (pp. 92-119). Alternation African Scholarship Book Series, Volume #02. Durban: CSSALL Publishers (Pty) Ltd. DOI number: <https://doi.org/10.29086/978-0-9869936-1-9/2020/AASBS02>

Publications in ISI an IBSS indexed journals

- Du Plessis, A. (2022, in press). A personal reflection on Covid-19 online teaching, learning, and assessment with suggestions for research – Special Editorial. *Journal of Baltic Science Education*, 21(4), 00-00. <https://doi.org/10.33225/jbse/22.21.00>
- Bayaga, A., Lekena, L. L., Selepe, C., du Plessis, A., Blignaut, S., & Morar, T.. (2022). Academic, social and economic experiences of first-year students: case study. *South African Journal of Higher Education*, 36(2), 8-24. <https://dx.doi.org/10.20853/36-2-4592>
- Virtic-Ploy, M., Sorgo, A. & Du Plessis, A. (2021). In the search for the ideal mentor by applying the ‘Mentoring for effective teaching practice instrument’, *European Journal of Teacher Education*, DOI: [10.1080/02619768.2021.1957828](https://doi.org/10.1080/02619768.2021.1957828)
- Du Plessis, A. and Ahmed, L. (2020). Exploring the aspirations of youth in a rural secondary school utilising a visual participatory approach. *Educational Research for Social Change*, 9(2), 47-64. <http://dx.doi.org/10.17159/2221-4070/2020/v9i2a4>
- Cherrington, A.V., Scheckle, E., Khau, M., De Lange, N. & Du Plessis, A. (2018). What does it mean to be an ‘engaged university’? Reflections from a university and school-community engagement project. *Education, Citizenship and Social Justice*, 1-14. <https://doi.org/10.1177/1746197918779945>
- Du Plessis, A. (2018). Science Education in schools and at tertiary level: Status quo or embracing change? *Journal of Baltic Science Education*, 17(2), 184-186. [Special invited Editorial]

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- Du Plessis, A. & Cain, G. (2017). Exploring the perceived possible sources of conflict among educators in a school. *Journal of Education*. 70, 1-23.
- Du Plessis, A. (2016). Student-teachers' Pedagogical Beliefs: learner-centred or teacher-centred when using ICT in the science classroom? *Journal of Baltic Science Education*, 15(2), 140-158.
- Zinn, D., Adam, K., Kurup, R. and Du Plessis, A. (2016). Returning to the Source: Reflexivity and Transformation in Understanding a Humanising Pedagogy. *Educational Research for Social Change*, 5(1), 70-93. <http://dx.doi.org/10.17159/2221-4070/2016/v5i1a5>
- Du Plessis, A. (2015). Rethinking traditional science teaching through infusing ICT learning embedded by a 'learning-as-design' approach. *Journal of Baltic Science Education*, 14(1), 4-6. [Special invited Editorial]
- Du Plessis, A., & Webb, P. (2012). Teachers' perceptions about their own and their schools' readiness for computer implementation: A South African case study. *Turkish Online Journal of Educational Technology*, 11(3), 312-325.
- Du Plessis, A., & Webb, P. (2012). A teacher proposed heuristic for ICT professional teacher development and implementation in the South African context. *Turkish Online Journal of Educational Technology*, 11(4), 46-55.
- Du Plessis, A., & Webb, P. (2012). Digital immigrant teacher perceptions of an extended Cyberhunt strategy. *Australasian Journal of Educational Technology*, 28(2), 341-363.
- Du Plessis, A., & Webb, P. (2011). An extended Cyberhunts strategy: Learner centred learning-by-design. *Australasian Journal of Educational Technology*, 27(7), 1190-1207.

Publications in DHET accredited journals

- Du Plessis, A. & Webb, P. (2011). An extended 'learning by design' framework based on learner perceptions. *African Journal of Research in Mathematics, Science and Technology Education*, 15(2), 16-29.
- Du Plessis, A. & Webb, P. (2008). Generative use of computers: Promoting critical outcomes of the South African curriculum. *Education as Change*, 12(1), 15-27.

Publications in refereed journals

- Du Plessis, A. & Subramanien, B. (2014). Voices of despair: Challenges of multi-grade teachers in a rural district in South Africa. *Educational Research for Social Change*, 3(1), 20-36.
- Cain, G. & Du Plessis, A. (2013). Teachers' perceptions of the consequences of interpersonal conflict: A case study in three primary schools. *Problems of Management in the 21st Century. Managing in a changing Society*, 8, 25-41.
- Du Plessis, A. (2013). Wikis and PowerPoints as cognitive development tools in Scientific Literacy: A Proposed Heuristic. *Problems in Education in the 21st Century*. 57, 25-47.

Publications in refereed conference proceedings

- Du Plessis, A. (2014). An ICT learning-to-design heuristic to promote science learning: using PowerPoint in an "unintended" mode. Keynote presented at IXth IOSTE SYMPOSIUM FOR CENTRAL AND EASTERN EUROPE Science and Technology Education for the XXIst Century at the University of Hradec Králové in the Czech Republic, 15 to 17 September 2014.
- Du Plessis, A. (2013). Wikis and PowerPoints as cognitive development tools in Scientific Literacy. International Scientific Conference, Information & communication technology in natural science education – 2013, 23-27 October 2013, Siauliai, Lithuania.
- Du Plessis, A. & Webb, P. (2012). A proposed ICT implementation heuristic for schools in disadvantaged contexts: An African perspective from South Africa. Science & Technology Education for Development, Citizenship and Social Justice, IOSTE 15 Symposium, La Medina - Yasmine Hammamet, Tunisia, October 28 to 03 November 3, 2012.
- Du Plessis, A. & Webb, P. (2012). A heuristic for higher level student cognitive thinking and questioning through collaborative student designed wiki-based Cyberhunts. Seventh International Conference on Science, Mathematics and Technology Education, Muscat, Oman, November 4 to 7, 2012.

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- Du Plessis, A. & Webb, P. (2009). Learners' perceptions of the skills developed through creating a collaborative hypermedia product. Proceedings of the 17th Annual SAARMSTE Conference. Grahamstown, South Africa. 104 -120.

Presentations at conferences, not in proceedings

- Du Plessis, A. (2020). An exploration of students' perceptions and experiences of school-based mentoring to inform faculties' mentoring and mentee thinking. Keynote presentation at the Colchester Institute in the Department of Education, affiliated to the University of Essex in January 2020.
- Du Plessis, A. (2018). Student generated cellphilms as a tool to '*learn with*' with a view to promote students' learning and assessment experiences in the 'Education as Thinking' module: Possibilities and Challenges. Keynote presentation at the 2nd Symposium SOLT Programme 2018, Improving Learning and Teaching through Scholarship of Learning and Teaching, 27 to 28 November 2018, Walter Sisulu University.
- Du Plessis, A. (2017). e-Learning: Forward, Upwards, Downwards, Sideways, Backwards & Reimagine - Utilising a layered theoretical approach as mapping tool for innovation preparation, implementation and reflection. Presentation at the SAERA Conference, hosted by the Nelson Mandela University, Port Elizabeth, 23-26 October 2017.
- Du Plessis, A. (2017). Teacher usage of the one-laptop in the multigrade context: The case of the Intel© Teach Training Programme. Presentation at the SAERA Conference, hosted by the Nelson Mandela University, Port Elizabeth, 23-26 October 2017.
- De Lange, N., Cherrington, A., Du Plessis, A., Scheckle, E. & Khau, M. (2017). How to "engage" (or not): Deepening our understanding of university-school community engagement. Presentation at the SAERA Conference, hosted by the Nelson Mandela University, Port Elizabeth, 23-26 October 2017.
- De Lange, N., Khau, M., Scheckle, E., Du Plessis, A. & Cherrington. A. (2016). Creating intersections for dialogic engagement and participation between a rural and university community in the context of education. Presentation at the SAERA Conference, hosted by the University of Stellenbosch, Cape Town, 23-26 October 2016.

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- Du Plessis, A. & Bean, P. (2014). Conceptualizing a rigorous (vigorous) & relevant PGCE for 21st century teaching. Symposium on Academic Depth & Rigour in Initial Teacher Education Programmes, 30-31 October, WITS, Johannesburg, South Africa
- Du Plessis, A. (2014). Cyberhunts: Technology usage meeting levels of cognitive thinking and critical outcomes in all subjects, including science. Video keynote presented at the NATURAL SCIENCE EDUCATION IN A COMPREHENSIVE SCHOOLS 2014 Conference, Panevėžys, 25–26 April, 2014.
- Du Plessis, A. (2013). A heuristic for ICT implementation in schools and FET colleges. Presentation at 4th Annual ICT in Higher Education, Johannesburg, 18-19 March 2013.
- Du Plessis, A. (2012). Can we continue with ICT devices the way we are currently? - The road ahead & A New Internet Teaching Strategy. Presentation at Inspiring Teachers Conference, Nelson Mandela Metropolitan University, Port Elizabeth, South Africa, 03 August 2012.
- Du Plessis, A. (2011). Internet learning through learners as designers of Extended Cyberhunts: A South African Developed Strategy. Presentation at the Africa Higher-Ed ICT Conference, Johannesburg, 30-31 March 2011.
 - Also conference chairperson
 - Also delivery presentation as part of keynote introduction: ICT usage trends – Setting the scene for the Africa Higher-Ed ICT Conference
- Du Plessis, A. (2010). Action Research might hold the key to improving teachers' mathematics practices. Presentation at AMESA 2010 Mathematics Conference in Port Elizabeth.
- Du Plessis, A. (2009). The CRAR³FS² framework for developing teachers' ICT skills for e-Education. Presentation and paper at Walter Sisulu University E-Learning Conference on 3-4 November 2009.
- Du Plessis, A. (2003). Paper delivered at AMESA Mathematics Conference in Port Elizabeth: Project Based Learning and Game Design in Mathematics.

Presentation at research seminars

- Present Research Experiences to MEd & PhD students on invitation from the Head of PhD studies, Prof Naydene de Lange (2014)

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- Presenting at Faculty of Education Seminar Series (ongoing)

Presentations at Nelson Mandela University

- Using ICT for teaching and learning: Presented at the Faculty of Education's Humanising Pedagogy week, August 2014
- ICT practices: Presented at NMMU Teaching and Learning Break Away, June 2014

Current research projects

- Students' behavioural intention to utilise a Learning Management System (LMS) such as MS Teams and/or Moodle [2020 onwards]
- University lecturers' behavioural intention to utilise a Learning Management System (LMS) such as MS Teams and/or Moodle [2020 onwards]
- Teachers' behavioural intention to utilise a Learning Management System (LMS) such as MS Teams and/or Moodle [2020 onwards]

Educational Research for Social Change (ERSC)

- Initiator of the NMMU journal: Educational Research for Social Change (ERSC)
- Co-Editor-in-Chief of Educational Research for Social Change <http://ersc.nmmu.ac.za>

Reviewer for journals

- African Journal of Research in Mathematics, Science and Technology Education: ICT related articles (2009-2011)
- Perspectives in Education: ICT Articles (2011 onwards)
- Educational Research for Social Change: ICT for Social Change articles (2012 onwards)
- Journal of Baltic Sciences (2013 onwards)

Supervision completed successfully of full theses

- Supervision of thesis, Mr G Cain: Educator's perceptions of conflict at three Northern Area Schools in Port Elizabeth: A Case Study [Full MEd Thesis]. Student graduated cum laude in 2013
- Supervision of thesis, Ms B. Subramanien: Exploring teachers' perceptions of the barriers and solutions to using one teacher laptop per class in a multi-grade context:

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The case of Intel® Teach – ICT implementation. [Full MEd Thesis]. The student graduated cum laude in 2014.

- Co-Supervision of thesis, Mr C. Rugut: The nature of postgraduate student-supervisor relationship in the completion of doctoral studies in education: An exploration in two African universities. [Full MEd Thesis]. The student graduated cum laude in December 2017.
- Supervision of thesis, Ms L. Ahmed: Exploring the career aspirations of youths from a rural secondary school in the Eastern Cape Province. The student graduated cum laude in April 2020.
- Supervision of thesis, Mr F.S. Kipchumba: Teachers' readiness to implement ICT for teaching and learning of science in public secondary schools in West Pokot County, Kenya. Defended in Kenya in July/August 2020.
- Co-Supervision of thesis, Mr J. Kotnik: Mentoring experiences of pre-service final year student teachers at the University of Maribor. Submitted in Dec 2019, to be defended in 2021.

Supervision in progress

- One MEd [Main supervisor]
- One Master's degree as co-supervisor [University of Maribor, Slovenia], submitted December 2019.
- One PhD [Co-supervisor]

External examiner of modules

- External Examiner for Rhodes honours ICT in 2008
- External Examiner for University of Pretoria honours ICT in 2013
- External moderator for Walter Sisulu University: Mathematics 2012, 2013, 2014, 2015, 2016
- External moderator for Fort Hare University: PGCE, Education Modules, 2015, 2016, 2017
- External Examiner for Rhodes BEd ICT ICT in 2018 and 2019

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External examiner of theses for universities

- Examiner of MEd thesis from Rhodes University 2008
- Examiner of MEd thesis from University of Cape Town 2013
- Examiner of MEd thesis from University of Pretoria 2013
- Examiner of MEd thesis from University of Pretoria 2014
- Examiner of MEd thesis from University of Cape Town 2014
- Examiner of MEd thesis from University of Cape Peninsula 2014
- Examiner of PhD thesis from University of the Free State 2014
- Examiner of MEd thesis from University of Pretoria 2015
- Examiner of MEd thesis from University of Cape Peninsula 2016
- Examiner of PhD thesis from University of the Free State 2017
- Examiner of MEd thesis from University of Cape Town 2018
- Examiner of MEd thesis from University of Fort Hare 2018
- Examiner of MEd thesis from University of Pretoria 2018
- Examiner of PhD from University of Pretoria 2018
- Examiner of MEd from UNISA, 2019
- Examiner of PhD from Rhodes University 2019
- Examiner of PhD from North West University 2019
- Examiner of PhD from Rhodes University 2020

External service to the discipline and profession

- Serve on International IOSTE board as representative (2010-2014)
- Assisted Eastern Cape Department of Education as part of a group with its ICT Draft Policy at the LAIS Conference (December 2010)
- The use of ICT in teaching and learning (Walter Sisulu University, November 2009)
- Teacher development in the Eastern Cape: Swinging the tide (LAIS Congress of the Department of Education, December 2009)

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- The Matric results (Herald, January 2010)

MANAGEMENT AND LEADERSHIP

University based

- Acting Head of Programme: Post Graduate Certificate in Education [PGCE] (appointed 2013 in acting position to 2014)
- Head of Programme: Post Graduate Certificate in Education [PGCE] (appointed, 2015 to 2018)
- Head of Science, Mathematics and Technology Education [SMATE] Unit (2015-2019)
- Head of Herman Olthaver Trust Engagement Project in local and rural schools (2015 onwards)
- Faculty Management Committee (FMC) (2013 to 2018)

Leadership Awards

- Awarded the Leadership Effectiveness Advancement Programme (LEAP) for 2017 by NMMU to attend this course presented by the NMMU Business School in 2017
- Higher Education South Africa HESA LEAD Leadership Scholarship (2013-2014)

Research Leadership, Positions & Committees

- Initiator of Educational Research for Social Change (ERSC) in 2012: Blind Peer-Reviewed Academic Journal [Initiating and establishing research publication platform]
- Co-Editor-in-Chief of DHET accredited journal, Educational Research for Social Change <http://ersc.nmmu.ac.za>
- Web designer and maintaining Educational Research for Social Change (ERSC) online <http://ersc.nmmu.ac.za>

School-based leadership positions & committees

- Member of Mount Pleasant Primary School Governing Body (1996-2007)
- Treasurer: Port Elizabeth Primary Schools Rugby Football Union (2005-2007)
- Chairperson of Mount Pleasant Primary School Marketing Committee (1996-2007)
- Member of Mount Pleasant Primary School Senior Management Team (1996-2007)

Community leadership

- Chairperson of School Governing Body (SGB): Summerwood Primary School SGB (Elected 2012 and term ended 2015)
- Municipal Ward Committee Member for representing schools in Mount Pleasant and Charlo areas: Education Portfolio (2004-2005)

School related leadership experience

- Head of Intermediate Phase at Mount Pleasant Primary School (1996 to 2007)
- Setting of timetable at Mount Pleasant Primary School (1996 to 2007)
- IQMS procedure and management at Mount Pleasant Primary School
- Management of stationary and textbook supply room (1996 to 2007)
- School budget at Mount Pleasant Primary School (1996 to 2007)
- Organisation of annual prize-giving at Mount Pleasant Primary School (1996 to 2007, every second year)
- School newspaper at Mount Pleasant Primary School (1997 to 2007)
- School marketing committee at Mount Pleasant Primary School (1996 to 2007)
- School curriculum development at Mount Pleasant Primary School (1996 to 2007)
- Head of Sport: Cricket and Rugby at Mount Pleasant Primary School (1996 to 2007)
- Eastern Province U/12B Rugby administrator (1996 to 2000)
- ICT equipment and staff training at school at Mount Pleasant Primary School (1996 to 2007)
- Prefect leadership seminars at Mount Pleasant Primary School (1996 to 2005)
- School inventory at Mount Pleasant Primary School (1996 to 2007)
- EMIS forms at Mount Pleasant Primary School (1996 to 2007)
- Computerised Admin system at Mount Pleasant Primary School (1996 to 2007)
- School prospectus design at Mount Pleasant Primary School (1996 to 2007)

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- Coaching sport at Mount Pleasant Primary School: Cricket, Rugby, Athletics, Mini-cricket (1996 to 2007)
- Young entrepreneurs at Mount Pleasant Primary School (2000 to 2007)

CURRICULUM RENEWAL AND DEVELOPMENT

- Leading the Post Graduate Certificate in Education (PGCE) curriculum renewal process (From 2013 to 2018)
- Submission of new PGCE in 2014 to APC: Accepted (October 2014)
- Submission of PGCE to HEQC for accreditation: Accepted in Dec 2016 with one condition
- Developed PIMM102 and PIMM202 Intermediate Phase Mathematics Theory and Method modules (2018 and 2019)

UNIVERSITY-BASED TEACHING POSITIONS AND EXPERIENCE

- PGEF400: Education and Theory module (Co-designer of module in 2018, year module to be facilitated in 2019 for the first time)
- PGPL40S: Professional School Based Practice module (Designer of module in 2018, year module WRX103: ICT module (ACE Computer Literacy for School Leadership) for the NMMU in 2009 and updated every year. Also module coordinator
- PGED201: Educational Thought (Module coordinator and teaching of module from 2015 to 2016, teaching only from 2017 to 2018)
- PICM201: Curriculum Studies - Concepts and Methodology in Mathematics: Numbers Concept (2007, Module coordinator from 2012 onwards, Teaching of module since 2007)
- PICM202: Curriculum Studies - Concepts and Methodology in Mathematics: Measurement (2008 Module co-ordinator from 2012 onwards, Teaching of module since 2008)

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- PICM301: Curriculum Studies - Concepts and Methodology in Mathematics: Data Handling, probability and Space and Shape (2008, Module co-ordinator from 2010 onwards, Teaching of module since 2008)
- PSMT101 module (BEd Senior Primary: Concepts of Numbers and Algebra) for the NMMU (Module coordinator and teaching 2008-2011)
- PSED305 module (BEd Senior primary and FET: Research Methodology in Education) for the NMMU (Module coordinator and teaching 2008-2012)
- PSPL301 module (BEd Senior primary and FET: RPL in Mathematics and Science Education) for the NMMU (Module coordinator and teaching 2008-2012)
- PSPL201 module (BEd Senior primary and FET: RPL in Mathematics and Science Education) for the NMMU (Module coordinator and teaching 2008-2011)
- Edited and re-designed PHE408 Research module in honours degree module (2010)

CONTINUING PROFESSIONAL DEVELOPMENT ACTIVITIES UNDERTAKEN

- Leadership Effectiveness Advancement Programme [One year Short Learning Programme], NELSON MANDELA UNIVERSITY 2017
- Collaborating to create value, NELSON MANDELA UNIVERSITY 2017
- Thinking on your feet, NELSON MANDELA UNIVERSITY 2017
- Supervision SLP: International DAAD and NMMU Kenia Project (2015)
- Teaching Large Classes. NMMU CTLM (2015)
- Supervision SLP: Yearlong DAAD SLP, Faculty of Education (2014)
- Faculty Curriculum Engagement Activities (2013)
- Workshop: Thesis writing and supervision by Dr Hofsted (2012)
- Workshop: Guiding your students regarding theoretical frameworks (2012)
- Workshop: Academic Engagement (2012)
- Attending academic faculty writing retreats (2008, 2010)

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- Attending a workshop on Academic writing presented by Dr Estelle Troskie De Bruyn (2009)
- Attending a supervising workshop presented by Dr Chris Kapp (2007)
- Attending the workshop on supervising presented by the international academics pair, the Hewsons (2010)
- Initial Lecture Training (June 2007) by Mrs Elsa Lombard and Dr Robert Gerber (2007)
- Writing your philosophical teaching and learning position by Mrs Elsa Lombard and Dr Robert Gerber (2008)

ACADEMIC ENGAGEMENT

Prestigious Engagement Awards

- NMMU Emerging Engagement Award for ICT: Best Emerging Engagement Project for ICT in Education in Schools (2012) [Field of Engagement: ICT in Education which also includes School Management]

Leadership in engagement and research

- Head of the Science, Mathematics and Technology Unit in the Faculty of Education (2014-2017)

University-based community and engagement projects

- National Research Foundation (NRF) Project: Sandisulwazi School in Paterson (2015 to 2017) with the focus on learners' future career perspectives (Using ICT as enabling tool)
- SAB ICT project to improve Mathematics and Science Education: Sandisulwazi School in Paterson (2012 onwards)
- Hermann Ohlthaver Trust Wireless Internet Connectivity Project : Computers in schools at Missionvale: Developing teachers for ICT implementation and Integration at their schools (2009 to 2016)
www.nmmu.ac.za/helpingteachers/individualprojectduplessis
- ABSA SMIS DELL computers in schools at Missionvale: Developing teachers for ICT implementation and Integration at their schools (2008-2009)

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- Save Our Schools (SOS) Project for principals with Prof Paul Webb & Dr Johann McFarlane (2009)

Engagement Presentations at Nelson Mandela Metropolitan University

- Engagement Colloquium Presentation on 27 October 2014, North Campus Conference Centre (2014)

ICT reports, proposals, budgeting and presentations

- Yearly ICT Herman Ohlthaver Trust reporting (2009 onwards)
- Proposal for ICT plan for Summerwood Primary School, Port Elizabeth (2012)
- Inexpensive Wireless Tablets Testing Findings (2012)

Reviewer for journals

- African Journal of Research in Mathematics, Science and Technology Education: ICT related articles (2009-2011)
- Perspectives in Education: ICT Articles (2011 onwards)
- Educational Research for Social Change: ICT for Social Change articles (2012 onwards)
- Journal of Baltic Science Education (2013 onwards)

Application of disciplinary knowledge & expertise in facilitating learning tailored to the needs of the external community (including Short Learning Programmes, seminars, CPD workshops, public talks)

- ABSA SMIS DELL computers in schools at Missionvale: Developing teachers for ICT implementation and Integration at their schools (2008-2009)
- SOS Schools Project for principals (2009) with Dr Johann McFarlane
- DG Murray Trust: Computer Literacy for teachers (2011-2013)
- Herman Ohlthaver Trust ICT Project (2010-2013)
- Development of SLP for School Educators for ICT (2012)

Actively participates in projects directed at economic, social & cultural development locally/nationally

- NMMU Faculty of Education: Emerging Researcher of the Year (2012) [Field of Research: ICT in Education]

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- NMMU Emerging Engagement Award for ICT: Best Emerging Engagement Project for ICT in Education in Schools (2012) [Field of Engagement: ICT in Education]
- ABSA SMIS DELL computers in schools at Missionvale: Developing teachers for ICT implementation and Integration at their schools (2008-2009)
- SOS Schools Project for principals (2009) with Dr Johann McFarlane
- DG Murray Trust: Computer Literacy for teachers (2011-2013)
- Herman Ohlthaver Trust ICT Project (2010-2014)

CURRENT FOCUS AND EXPERIENCE IN TEACHER EDUCATION AT UNIVERSITY

- Primary school Intermediate Phase Mathematics Method (Grade 4 to 7) (2007 to 2016 and onwards]
- High School Secondary Phase Mathematics Method (Grade 7 to 9) [2008 to 2010]
- Information and Communication Technology in Education (ICT) [2008 to 2016 and onwards]
- Multi-grade education [2012 and onwards as research area - supervision]
- Supervision practices
- School based mentoring

ICT DEVELOPMENT

ICT for Administration & Software design

- Administrative Software Design using Microsoft Access for Mount Pleasant Primary School (2000-2006)
- Design of School Administration System for Mount Pleasant Primary School: Microsoft Access (2003 to 2007)
- Design of Computerized Stock Control System for Mount Pleasant Primary School: Microsoft Access (2003 to 2007)
- Design of Athletics Computerized System for Mount Pleasant Primary School: Microsoft Access (2003 to 2007)

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- Design of School Budget (1998 in Microsoft Excel and onwards to 2007)

ICT software experience

- Moodle: Managing Modules, Adding Content and Media on Moodle on NMMU LEARN Portal (<http://learn.nmmu.ac.za>) as well as assignments and online tests
- Creating online content for learning and PodCasts: Educreations, BlueBerry Software
- Using iPads for teaching and learning: Doceri and Splashtop Suites, CamStudio, BlueBerry Express: Creating Online Content
- Internet and Web design: WYSIWYG WebBuilder, FrontPage, DreamWeaver, Word: www.nmmu.ac.za/helpingteachers/individualprojectduplessis
- Impress Pages - see andreduplessis.nmmu.ac.za
- Adding Multi-Media, sound and JAVA to web pages
- PowerPoint Presentations
- E-Mail
- Graphic Design: Microsoft Photodraw
- Spreadsheets: Excel
- Databases: Microsoft Access Data Base Design
- Word-processing: Microsoft Word
- Designing and Newspaper Software: Microsoft Publisher
- Operating Systems: Microsoft Windows XP/VISTA/Windows 7/Windows 8, Windows 10, Linux Mint, Linux Ubuntu, Fedora Linux.
- Social Media platforms
- Assembling of computers, troubleshooting and repairing
- Maintenance of Internet connections

FACILITATION, TRAINING AND DEVELOPMENT OF SCHOOL-BASED TEACHERS

- Writing Learning Area Policies (2005)

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- Designing Reports based on the RNCS (2005)
- Portfolio Assessment and the RNCS (2005)
- Computer Integration into the Curriculum: Social Sciences & Natural Sciences (2005)
- Computer Integration in the Curriculum at Port Elizabeth Technikon (2004)
- Training of staff in IQMS procedure (2004)
- Develop Textbook evaluation form in collaboration with staff (2004)
- AMESA Mathematics Conference: Project Based Learning and Game Design (2003)
- Newspaper Design for 8 schools in collaboration with Die Burger newspaper (2003)
- Desktop Publishing for Newspapers for 8 schools: Microsoft Publisher in collaboration with Die Burger newspaper (2003)
- Portfolio assessment and development of 30 teachers from Port Elizabeth (2002)
- Rubrics, Checklists and Constructivist Theory for 50 teachers from Port Elizabeth (2002)
- Training of staff in methods for continuous evaluation (1995-2002)
- Assessment and the paradigm shift in Outcomes Based Education (2002)
- Thinking differently: Developing all the learners' skills (2002)
- Training of staff of various schools in the surrounding areas how to set up Outcomes Based Education Reports (2000-2001)
- Training of staff in Outcomes Based Education basics (1999)
- Training of staff in Time Management (1999)
- Training of Staff in Computer Literacy (1999-2000)
- Training of staff skills in writing report remarks (1996)
- Training of staff in Creativity Techniques to be used in the classroom (1997)
- Training of staff in using Newspapers for language use in the classroom (1996)
- Training of staff in selecting textbooks that suit their needs (1999)

TEACHING AND LEARNING RELATED

Special Prestigious Teaching Awards

- Golden Key Award: Faculty Teacher of the year, Nelson Mandela University (2018)
- South African Teaching Advancement at University (TAU) Fellowships Programme Fellowship (2015-2016)
- NMMU Distinguished Teacher Award: Awarded for Five Years (2014) [Highest Award at NMMU]
- NMMU Teacher of the Year (2011)
- Teacher of the Year: Faculty of Education (2011)
- Emerging Teacher of the Year: Faculty of Education (2010)

Awards for Academic Excellence while studying

- Council Medal: Best 4th year student (1989)
- SAOU-Award: Best Teacher Student in Final year (1989)
- Maskew Miller Longman-Award: For Excellence in Practical Teaching: Best Student (1989)
- FAK Medal for best Afrikaans Method Teaching Student (1989)
- Rector's Medal: Best 3rd year student (1988)
- FAK Medal for best Afrikaans Method Teaching Student (1988)

FACILITATION, TRAINING AND DEVELOPMENT OF SCHOOL-BASED TEACHERS

- Writing Learning Area Policies (2005)
- Designing Reports based on the RNCS (2005)
- Portfolio Assessment and the RNCS (2005)
- Computer Integration into the Curriculum: Social Sciences & Natural Sciences (2005)
- Computer Integration in the Curriculum at Port Elizabeth Technikon (2004)
- Training of staff in IQMS procedure (2004)

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- Develop Textbook evaluation form in collaboration with staff (2004)
- AMESA Mathematics Conference: Project Based Learning and Game Design (2003)
- Newspaper Design for 8 schools in collaboration with Die Burger newspaper (2003)
- Desktop Publishing for Newspapers for 8 schools: Microsoft Publisher in collaboration with Die Burger newspaper (2003)
- Portfolio assessment and development of 30 teachers from Port Elizabeth (2002)
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- Training of staff in Creativity Techniques to be used in the classroom (1997)
- Training of staff in using Newspapers for language use in the classroom (1996)
- Training of staff in selecting text books that suit their needs (1999)

SUPERVISION COMPLETED SUCCESSFULLY

- 2012: Perceptions of educator's related to conflict in schools (cum laude) [Conflict management theories as conceptual thinking]
- 2014: ICT and multigrade schools: The Intel Teach intervention [Three order typology as framework extended based on Ertmer's framework]

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- 2018: Nature of post-graduate student-supervisor relationship (cum laude) (co-supervisor) [Interpersonal behaviour theory and the model for interpersonal supervisor behaviour as theoretical framework]
- 2022: Mentoring experiences of pre-service teacher students (co-supervisor) (cum laude) - co-supervised internationally with the University of Maribor, Slovenia [Conceptual framework of Hudson – Five-factor mentoring framework extended to include ICT]
- 2022: Teachers' readiness to implement ICT for teaching and learning of science in public secondary schools in West Pokot county, Kenya. Main supervisor of the DAAD Project with Germany with a student from Kenya at Moi University [ICT acceptance of science teachers – UTAUT theoretical framework]
- 2022: Exploring the career aspirations of youths from a rural secondary school in the Eastern Cape Province (cum laude) [Snyder's Hope Theory, Resilience Theory and Gottfredson's Theory of Circumscription and Compromise]

REFERENCES

External national references

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 - Distinguished Professor and Ex-Director of the School for Educational Research and Engagement (SERE)
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- Prof Naydene de Lange
 - Previous Research Chair: HIV & AIDS and now emeritus professor
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