

CURRICULUM VITAE

Prof. MAMOKGETHI PHAKENG, PhD(Wits), MASSAf

BIOGRAPHICAL SKETCH

Mamokgethi Phakeng (formerly Setati) is full professor and Vice Principal of Research and Innovation at Unisa. She holds a PhD in Mathematics Education from the University of the Witwatersrand. She is a B2 NRF-rated scientist and has been invited as a speaker and visiting professor at international conferences and universities in Australia, Botswana, Canada, Denmark, Finland, India, Italy, Kenya, Lesotho, Mexico, Mozambique, Namibia, New Zealand, Pakistan, Senegal, South Korea, Sweden, Switzerland, UK and USA. She has won several awards for her research and community work, the latest being the 2014 CEO magazine award for being the most influential woman in education and training (Academic) in Africa and the 2011 NSTF award for being the most outstanding Senior Black Female Researcher over the last 5 to 10 years in recognition of her innovative, quality research on teaching and learning mathematics in multilingual classrooms. Prof Phakeng was elected as a member of the Academy of Science of South Africa (ASSAf) in November 2007; an honorary member of the Golden Key International Honour Society in May 2009 and an honorary life member of the Association for Mathematics Education of South Africa (AMESA) in July 2009. In 2008 she became the first South African black researcher to be appointed to co-chair a study commissioned by the International Commission on Mathematical Instruction entitled “mathematics and language diversity”.

She is President of Convocation of Wits University, member of the board of the CSIR and trustee of the FirstRand Foundation. She has served as national president of the Association for Mathematics Education of South Africa (AMESA) from 2002 to 2006, chairperson of the Board of the South African Mathematics Foundation (SAMF) from 2005 to 2006 and secretary and member of the executive committee of the International Group for the Psychology of Mathematics Education (PME) from 2003 to 2007.

She is the founder of the Adopt-a-learner Foundation (www.adopt-a-learner.com), a non-profit organisation that started in 2004 and provides financial and educational support to students from township and rural areas to acquire higher education qualifications.

QUALIFICATIONS AND FIELD OF STUDY

Qualification	Field of Study	Year obtained	Institution
PhD	Mathematics Education	2002	University of the Witwatersrand
M.Ed	Mathematics Education	1996	University of the Witwatersrand
B.Ed	Mathematics Education	1993	University of the Witwatersrand
B.A (Ed)	Pure mathematics major [passed fourth year pure mathematics with 74%]	1988	University of Bophuthatswana (now part of UNW)

VOCATIONAL TRAINING

1. University of California, Berkeley, USA. -Lawrence Hall of Science Family Mathematics Training programme (1995)
2. Leadership and Management Group (Pty) Ltd, Johannesburg. Leadership Effectiveness Achievement Programme (1995)

CURRENT POSITIONS

1. Vice Principal: Research and Innovation: University of South Africa (July 2011 – July 2016)
2. Full Professor of Mathematics Education, University of South Africa (academic position)

HONORARY POSITIONS

1. Honorary Professor of Mathematics Education, University of the Witwatersrand (2008 – 2010; 2011 - 2013)
2. Professor Extraordinaire: Tshwane University of Technology (2007 – 2009)

CURRENT SERVICE ON BOARDS/COMMITTEES

1. President: Convocation of the University of the Witwatersrand (2011 – 2015, 2015 - 2019)
2. Trustee: FirstRand Foundation Board of Trustees (2007 – to date)
3. Board member: CSIR (January 2015 - 2017)
4. Chairperson: CSIR Research Development and Innovation subcommittee

PAST SERVICE ON BOARDS

1. Member of council: University of the Witwatersrand (2012 – 2013)
2. Non-Executive Director: Shanduka Group (2008 - 2012)
3. Non-Executive Chairperson: Lilitha Strategic Investments (2008 – 2012)
4. Trustee: Telkom Foundation Board of Trustees (2005 – 2009)
5. Member: South African Board for the International Council for Scientific Unions (ICSU) (2004 – 2013)
6. Member: South National Committee for the IMU (2004 – 2009)
7. South African Representative to the International Commission on Mathematical Instruction (ICMI) (2004 – 2009)
8. Chairperson: South African Mathematics Foundation (SAMF) (2004 – 2006)
9. Managing Editor and Chairperson of the Editorial Board of Pythagoras Journal (2002 – 2010)

NATIONAL SERVICE

1. DHET Research Outputs Evaluation Panel member (1 April 2014 – 31 March 2017)
2. NRF Appeals Committee Member (01 April 2014 to 31 March 2017)
3. Assessor: NRF rating system (2012 – 2013)
4. Member of the Ministerial Advisory Committee to review the Science, Technology and Innovation landscape and its readiness to meet the needs of the country. Appointed by the Minister of Science and Technology (June 2010 – June 2012).
5. Convenor: NRF Rating Specialist Committee for Mathematics Education (2009 – 2011)
6. Chairperson of the Digital Dzonga Advisory Council. Appointed by the Minister of Communications (June – December 2010)
7. Convenor and Chairperson of the Review Panel for the Science Advancement Cluster of the National Research Foundation (NRF). Appointed by the NRF Board (1 – 30 November 2010)

AWARDS, HONOURS AND ACHIEVEMENTS

1. CEO Magazine award for being the 2014 most influential woman in education and training (Academic) in Africa
2. CEO Magazine award for being the 2013 and 2014 most influential woman in education and training in South Africa
3. NSTF award for being the most outstanding Senior Black Female Researcher over the last 5 to 10 years in recognition of her innovative, quality research on teaching and learning mathematics in multilingual classrooms. (May 2011)
4. Golden key International Society Honorary life membership (May 2009)
5. Association of Mathematics Education of South Africa (AMESA) Honorary life membership (July 2009)
6. Recognised as one of top three NRF Top Women in Research for 2006
7. Amstel Salute to Success finalist (2005)

8. Dr. T. W. Khambule Research Award for being the most outstanding young female black researcher for 2003: Conferred by the NSTF (May 2004)
9. Outstanding Service Award (Education category). Conferred by the Sunday Sun and Christ Centred Church (2004).
10. SA Woman of the Year (one of the three finalists) for the Science and Technology Category (2003).
11. Prestige National Award South Africa's Inspirational Women Achievers Award - Conferred by RCP Media, (June 2003).
12. NRF Thuthuka Award (2003–2008).
13. National Research Foundation/National Science Foundation USA/SA fellowship (2001; 2003)
14. Mellon Award (1998 – 2000)
15. SAB Award for the Best Women in Rural Areas empowerment programme (1997)

WORK EXPERIENCE

1. Vice Principal: Research and Innovation, University of South Africa (1 July 2011 to date)
 - Strategic leadership and support for the development of class leading research and innovation in an increasingly competitive environment, both nationally and internationally, and to encourage engagement with the broader community.
2. Executive Dean: College of Engineering and Technology, University of South Africa (01 Jan 2008 to 30 June 2011)
 - Provide intellectual and strategic leadership to the College • Financial management • Formulate and implement administrative and educational policies affecting the College • Assist in the establishment and overseeing of the organizational structure, developing and allocating resources. • Elected member of Council representing Senate.
3. Full Professor: Mathematics Education, University of South Africa (01 January 2008 to date)
 - Supervision of PhD students in Mathematics Education
4. Founding Director: Marang Wits Centre for Mathematics and Science Education, School of Education, Wits University (2005 to 2007)
 - Provide intellectual and strategic leadership of the Centre • Financial management
5. Associate Professor: Mathematics Education, School of Education, Wits University (01 April 2004 to 31 Dec 2007)
 - Coordination of the PhD (Mathematics Education) program: This included screening of PhD applicants; allocation of supervision; provide leadership in terms of the academic content of PhD weekends and processing the examination of dissertations • Teaching: M.Sc; M.Ed; B.Sc (hons); B.Ed (hons) and PGCE (maths) • Research Supervision: PhD; masters and honours in mathematics education
6. Senior Lecturer: Mathematics Education, School of Education, Wits University (01 Sept 2002 to 30 Mar 2004)
 - Coordination of the M.Sc and M.Ed (Mathematics Education) programs: This included screening of applicants; allocation of supervision; counselling of students and processing the examination of thesis. • Coordination of the B.Sc (hons) and B.Ed (hons) mathematics programs: This included screening of applicants; allocation of project supervision; student counselling and communication with external examiner for the projects. • Teaching: M.Sc; M.Ed; B.Sc (hons) and B.Ed (hons). • Research Supervision: PhD; masters and honours in mathematics education
7. Lecturer: Mathematics Education, School of Mathematics, Wits University (01 July 1999 – 31 August 2002)
 - Coordination of the B.Sc (hons) and B.Ed (hons) mathematics programs: This included screening of applicants; allocation of project supervision; student counselling and communication with external examiner for the projects. • Teaching: M.Sc; M.Ed; B.Sc

- (hons); B.Ed (hons) and Mat191 an undergraduate Mathematics course. • Research Supervision: Masters and honours in mathematics education
8. Project Manager, Centre for Community Development of Vista University (01 August 1996 – 30 June 1999)
 - Management, development and implementation of Mathematics in-service training programmes for primary and high school teachers.
 - Management, development and implementation of an empowerment programme for women in rural areas.
 - Training of first arrival USA Peace Corp Volunteers in South Africa
 8. Mathematics Trainer, COUNT (01 July 1994 – 30 July 1996)
 - Development and implementation of Mathematics in-service training programmes for primary school mathematics teachers.
 - Implementation of the Family Maths programme
 - Editor of a quarterly publication: MATHS CONNECTION.
 9. Mathematics Subject Advisor, Department of Education and Training, West Rand Area. (01 June 1993 – 30 June 1994)
 - Development and implementation of Mathematics in-service training programmes for senior primary mathematics teachers.
 - Organisation of mathematics competitions and festivals for senior primary learners in the area.
 - Co-ordination of all the maths activities in the area.
 10. Head of Department: Mathematics and Science, A. B. Phokompe High School, Mohlakeng, Randfontein (01 Jan 1992 – 30 May 1993)
 - Management of the department of Mathematics and Science
 - Teaching of Mathematics at Grades 11 and 12 level
 10. Acting Principal and Mathematics Teacher, Thuto-Kitso Junior Secondary School, Fochville (01 Jan 1990 – 30 Dec 1991)
 - Management of the school and the mathematics and science department.
 - Teaching of mathematics at Grades 9 and 10 level
 11. Mathematics Lecturer, Hebron College of Education, Pretoria North (01 Feb 1988 – 30 Jan 1989)
 - Design mathematics course content for pre-service mathematics student teachers.
 - Teach mathematics to pre-service maths student teachers.
 - Teach basic mathematics course to pre-service student teachers who were not majoring in mathematics.

INVITED KEYNOTE/PLENARY PRESENTATIONS ACCEPTED: 35 speaking sessions

VISITING SCHOLARSHIPS/PROFESSORSHIPS: 8

REVIEWED RESEARCH PUBLICATIONS: 57

EDITED VOLUMES: 5

RESEARCH REPORTS: 6

PUBLICATIONS IN PUBLIC PRINT MEDIA: 7

POSTGRADUATE SUPERVISION (Mathematics Education) M.Sc/M.Ed: 12; PhD: 6