

CURRICULUM VITAE - MARIO SCERRI*

Personal details

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Date of Birth 2nd November 1953
Nationality South Africa/Malta

Tertiary education and academic qualifications

1994 PhD (Thesis: “The Determinants of Research and Development Activity within the Context of the South African Manufacturing Sector”) - University of the Witwatersrand, South Africa.
1978 MA Economics - University of New Orleans, USA
1975 BA (Hons) Economics - Royal University of Malta, Malta.

Work Record

Appointments (current):

Since 2021 Founding Chairholder of the UNESCO Chair in African Integration and Innovation
Since 2004 Professor of Economics, Institute for Economic Research on Innovation. (IERI), Faculty of Economics and Finance, Tshwane University of Technology, South Africa.
Since 2007 Senior Research Fellow, Institute for Economic Research on Innovation (IERI), Faculty of Economic Sciences, Tshwane University of Technology. (I was the founder of IERI at the Technikon North-West in 2002. IERI became operational with the appointment of Rasigan Maharajh as Chief Director and its official launch by the Minister of Science and Technology in South Africa in 2004).

* The spelling of my surname in my birth certificate in Malta is “Xerri” but my family adopted the spelling “Scerri” as the family name. This was allowed by Maltese law which saw “Scerri” and “Xerri” as interchangeable variations of the same surname. A change in Maltese law in 2012 required a strict adherence to the spelling of my surname as “Xerri” according to my birth record. Unofficially I still retain the spelling “Scerri” in the interest of continuity in my academic record.

- Since 2015 Visiting Senior Researcher, School of Economics and Business Studies, University of the Witwatersrand, South Africa.
- Since 2014 Member of the *DST-NRF Centre of Excellence in Scientometrics and STI Policy*, hosted by the Institute for Economic Research in Innovation at the Tshwane University of Technology.
- Since 2020 Coordinator of the development of the UNESCO capacity building programme on **Science, Technology and Innovation (STI) Policy and Governance Systems** ([Science, Technology and Innovation \(STI\) Policy and Governance Systems | UNESCO Open Learning](#))

Appointments (past):

- 2015-2021 Professor Extraordinary at the Centre for Research on Evaluation, Science and Technology (CREST), Stellenbosch University, South Africa.
- 2015-2020 Visiting Senior Researcher, School of Economics and Business Studies, University of the Witwatersrand, South Africa.
- 2011 Visiting Lecturer - Master of Management in Innovation Studies, University of the Witwatersrand, South Africa.
- 2004-2007 Executive Dean: Faculty of Economics and Finance, Tshwane University of Technology, South Africa.
- 2001-2003 Dean: Faculty of Economic and Management Sciences, Technikon North-West, South Africa.
- 2001-2003 Professor: Faculty of Economic and Management Sciences, Technikon North-West, South Africa.
- 1995-2001 Senior Lecturer in the Department of Economics at the University of the Witwatersrand, South Africa.
- 1986-1995 Permanent Lecturer in the Department of Economics at the University of the Witwatersrand, South Africa.
- 1984-1986 Temporary Lecturer in the Department of Economics at the University of the Witwatersrand, South Africa.
- 1979-1984 Full-time permanent lecturer in the Faculty of Management Studies at the University of Malta.
- 1977-1979 Part-time lecturer at the University of Malta.
- 1975-1976 Teaching assistant at the University of New Orleans, USA.

Teaching:

- Since 2021 Guest lecturer on a master programme on science, technology and innovation policy offered by the Ecole Nationale d'Ingénieurs de Tunis and the Université de Tunis El Manar, Tunisia
- Since 2019 *Economic Approaches to Local Development* in the MEcon: Comparative Local Development programme at the Tshwane University of Technology.
- Since 2019 *Regional Integration and Multi-Level Governance* in the MEcon: Comparative Local Development programme at the Tshwane University of Technology.

- Since 2018 'Systems of Innovation', in the MComm: Political Economy of Development/The Economics and Sociology of Development programme, at the University of the Witwatersrand.
- 2010-2018 *Economic Approaches to Local Development* in the **Joint African Master Programme in Local Development** (Tshwane University of Technology, the University of Trento, the University of Botswana, the Polytechnic of Namibia and St Thomas University in Mozambique). Since 2013 the programme was changed to the MTech: Comparative Local Development, administered by the Tshwane University of Technology. Since 2019 the programme was changed to MEcon: Comparative Local Development.
- 2007-2012 *Science, Technology and Innovation for South Africa (STISA)* programme for the Department of Science and Technology
- 2007-2008 Microeconomics IV, in the BTech: Economics, at the Tshwane University of Technology
- 1986-2001 Department of Economics at the University of the Witwatersrand, South Africa. I have taught International Trade and General Equilibrium Analysis at third year levels and Mathematical Economics at second year level. I taught the core courses in Microeconomics at second year and Honours levels. I have also presented a taught course at third year level and seminar course at the Master level in 'The Economics of Technological Change'.
- 1977-1984 Faculty of Management Studies at the University of Malta. Subjects taught included Macroeconomic Theory and Policy, Development Economics and Microeconomics.

Other appointments:

- 2021 Academic coordination of the *UNESCO/SADC Regional Training Programme on Science, Technology and Innovation Policy and Governance for Senior Policy Makers, Experts and Parliamentarians*
- 2018 Coordinator of the GLOBELICS ACADEMY 2018 – The 13th International PhD School on Innovation and Development ([Science, Technology and Innovation \(STI\) Policy and Governance Systems | UNESCO Open Learning](#)).
- 2013-2015 Member of the Indian Ocean Rim Association (IORA) Academic Forum
- 2009-2014 Member of the editorial board - African Journal of Science, Technology, Innovation and Development (AJSTID)
- 2012-2014 Director – *Institute for Comparative Studies in Local Development - Mozambique*
- 2010-2011 (*resumed appointment held over 2006-2009*) Academic Director of the *Joint African Master Programme on Comparative Local Development*. This programme was the product of a consortium of tertiary education institutions (Tshwane University of Technology, the University of Trento, the University of Botswana, the Polytechnic of Namibia and St Thomas University in Mozambique). The programme commenced in 2010.
- 2010-2011 Coordinator of the *IDRC-IERI Doctoral Research Awards in Science, Technology and Innovation Studies*.

- 2008 Erasmus Mundus Fellow attached to the Università degli Studi di Trento, Italy.
- 2003-2005 Member of the *North West Research Coordinating Committee*, Office of the Premier, North West Provincial Government
- 2003 External Examiner for Economics I and Economics II in the *School of Economic and Business Sciences* at the University of the Witwatersrand.
- 2002-2005 Member of the *Sub-committee: Job Creation, Economic Development, Finances, Human Resources and Agricultural Development* for the City of Tshwane Metropolitan Municipality.
- 2001-2003 Member on the Advisory Board of the *Eastern Region Entrepreneurial Support Centre for the North-West Province*
- 1998–2000 Economics II co-ordinator in the Department of Economics at the University of the Witwatersrand.
- 1996-1999 Member of the International Reference Group for the *Indian Ocean Research Network*, University of Notre Dame, Australia.
- 1996 Economics Honours coordinator in the Department of Economics at the University of the Witwatersrand.
- 1995 Founder member of the *Africa and Indian Ocean Project*.
- 1995-2001 Member of the Higher Degrees Committee in the Faculty of Commerce, University of the Witwatersrand
- 1994-1995 Coordinator of the SOAS/WITS project on academic support (mathematics and statistics) for disadvantaged economics students at the University of the Witwatersrand.
- 1994 Visiting Fellow at the *Centre for the Study of the South African Economy and International Finance*, London School of Economics and Political Science.
- 1994 Visiting Fellow at the School of Oriental and African Studies, London University.
- 1993 Economics II coordinator in the Department of Economics at the University of the Witwatersrand.
- 1989-2000 Examiner in “Principles of Economics” for the Institute of Marketing Management. This entailed syllabus setting, the drafting of lecturers’ guides, the setting of marking criteria and the coordination of markers.
- 1982-1984 First Year co-ordinator in the Faculty of Management Studies at The University of Malta
- 1978-1979 Member of the Board of Examiners for the Maltese Advanced Matriculation in Economics
- 1978-1979 Research executive (investment promotion policy) at the Malta Development Corporation
- 1975-1976 Teaching Assistant in the Department of Economics at the University of New Orleans

Research output

Books

- 2009 *The Evolution of the South African System of Innovation since 1916*. (Newcastle upon Tyne: Cambridge Scholars Publishing). <http://www.cambridgescholars.com/the-evolution-of-the-south-african-system-of-innovation-since-1916-12>;
electronic version: <http://lib.myilibrary.com/Browse/Open.asp?ID=233448>

Edited books

- 2016 *The Emergence of Systems of Innovation in South(ern) Africa: Long Histories and Contemporary Debates* (Johannesburg: MISTRA and Real African Publishers), [http://www.mistra.org.za/Library/Publications/Pages/The-Emergence-of-Systems-of-Innovation-in-South\(ern\)-Africa-Long-Histories-and-Contemporary-Debates.aspx](http://www.mistra.org.za/Library/Publications/Pages/The-Emergence-of-Systems-of-Innovation-in-South(ern)-Africa-Long-Histories-and-Contemporary-Debates.aspx)

Co-edited books

- 2014 **with Soares, Maria Clara Couto and Rasigan Maharajh (eds.)**, *Inequality and Development Challenges: BRICS National Systems of Innovation*, (New Delhi: Routledge), download available at <http://www.idrc.ca/EN/Resources/Publications/Pages/IDRCBookDetails.aspx?PublicationID=1231>
- 2014 **with Arroio, Ana (eds.)**, *The Promise of Small and Medium Enterprise: BRICS National Systems of Innovation*, (New Delhi: Routledge), download available at <http://www.idrc.ca/EN/Resources/Publications/Pages/IDRCBookDetails.aspx?PublicationID=1239>
- 2013 **with Lastres, Helena (eds.)**, *The Role of the State: BRICS National Systems of Innovation* (New Delhi: Routledge), download available at <https://www.idrc.ca/en/book/role-state?PublicationID=1194>
- 2006 **with Blankley, William, Neo Molotja and Imraan Saloojee (eds.)**, *Measuring Innovation in OECD and non-OECD Countries*. (Cape Town: HSRC).

Chapters in books

- 2017 “Modes of Innovation and the Prospects for Economic Development in South Africa and Tanzania”, in Stefan Kuhlmann and Gonzalo Ordóñez-Matamoros (eds.), *Research Handbook on Innovation Governance for Emerging Economies: Towards Better Models*, (Cheltenham, UK; Massachusetts, USA: Edward Elgar).
- 2016 “The Long History of Innovation Systems in South Africa”, in Scerri (ed.), op. cit.
- 2016 “From Union to Apartheid”, in Scerri (ed.), op. cit.
- 2016 “The Regional Setting of the South African System of Innovation”, in Scerri (ed.), op. cit.
- 2016 **with Thomas Pogue**, “The Colonial System of Innovation” in Scerri (ed.), op. cit.

- 2016 **with Lebs Mphahlele**, “The Human Factor in the Evolution of the South African System of Innovation”, in Scerri (ed.), op. cit.
- 2016 **with Rasigan Maharajh**, “The Policy Environment and Policy Options for the South African System of Innovation”, in Scerri (ed.), op. cit.
- 2015 **with Erika Kraemer-Mbula**, “Southern Africa”, in Susan Schneegans (ed.) *UNESCO Science Report: Towards 2030* (Paris: UNESCO Publishing), available at <http://unesdoc.unesco.org/images/0023/002354/235406e.pdf>
- 2015 “Sistema Nacional de Inovação em un periodo de Crise Econômica Global (The National System of Innovation in a period of Global Economic Crisis)”, in Jose Eduardo Cassiolato, Gabriela Podcameni and Maria Clara Couto Soares (eds.), *Políticas estratégicas de inovação e mudança estrutural - vol. 1 (Strategic Innovation Policy and Structural Change-vol.1)*, Editora E-papers, Rio de Janeiro, available at http://www.e-papers.com.br/produtos.asp?codigo_produto=2607
- 2015 “Africa’s Economic Relations with the Indian Ocean Rim”, in Dennis Rumley (ed.), *The Political Economy of Indian Ocean Maritime Africa*, (New Delhi: Pentagon Press).
- 2014 **with Maria Clara Couto Soares and Rasigan Maharajh**, “The co-evolution of Innovation and Inequality”, in Soares, Scerri and Maharajh (eds.), op. cit.
- 2014 **with Ana Arroio**, “Small fish in a big pond: SME and innovation in BRICS” in Arroio and Scerri (eds.), op. cit.
- 2013 “South Africa”, in Scerri and Lastres (eds.), op. cit.
- 2013 **with Helena Lastres**, “The State and the Architecture of National Systems of Innovation” in Scerri and Lastres (eds.), op. cit.
- 2012 “Economic Integration in Africa – The Systems of Innovation Approach”, in Mammo Muchie, Olusanya Osha and Matlotleng Matlou (eds.), *The Africana World: From Fragmentation to Unity and Renaissance* (South Africa: Africa Institute of South Africa).
- 2011 **with Rasigan Maharajh**, Chapter 2 in *African Innovation Outlook 2010* (AU-NePAD)
- 2011 **with Rasigan Maharajh and Enver Motala**, “Post-apartheid Higher Education and the System of Innovation: Enduring Challenges” in Göransson, B. and Brundenius, C. (editors) *Universities in Transition - the Changing Role and Challenges for Academic Institutions* (IDRC Publishing & Springer, New York).
- 2010 “Provincial Systems of Innovation and Globalisation in South Africa” in Dallago, Bruno and Chiara Guglielmetti (eds.), *Local Economies and Global Competitiveness* (Hampshire: Palgrave Macmillan).
- 2006 “Introduction”, in Blankley et al (eds.)
- 2006 “The Conceptual Fluidity of National Innovation Systems: Implications for Innovation Measures”, in Blankley et al (eds.)
- 2003 “The Competitiveness of the Southern African Customs Union within the Context of the Indian Ocean Rim” in Gwyn Campbell (ed.), *The Indian Ocean Rim: Southern Africa and Regional Co-operation.*, (Routledge-Curzon: London & New York):123-42.
- 2003 “The Prospects for Regional Innovation System(s) Within Sub-Saharan Africa” in Mammo Muchie, Bengt-Åke Lundvall and Peter Gammeltoft (eds.), *Putting Africa First: The Making of African Innovation Systems*. (Denmark: Aalborg University Press) reprinted in Piyushi Kotecha (ed.) *The Challenges of Regional Integration and its Implications for Higher Education* (SARUA Leadership Dialogue Series – Vol. 1 Number 2 2009).

Articles in scientific journals

- 2022 'Human Capabilities and the Evolutionary Prospects for Systems of Innovation in Sub-Saharan Africa', *Africa Insight*, 50(3): 96-108.
- 2021 'The Viability of Systems of Innovation', *Innovation and Development*, 11(1): 135-150, DOI: [10.1080/2157930X.2020.1798636](https://doi.org/10.1080/2157930X.2020.1798636)
- 2014 'Modes of Innovation and the National Systems of Innovation of the BRICS Economies', *STI Policy Review*, 5(2): 20-42.
- 2013 'Modes of Innovation and the Prospects for Economic Integration in Africa', *Africa Insight*, 43(3): 80-99.
- 2012 'The Introduction of the Systems of Innovation Approach in Economics Curricula', *International Journal of Technological Learning, Innovation and Development*, 5(1/2): 12-27
- 2008 'Neoclassical Theory and the Teaching of Undergraduate Microeconomics', *South African Journal of Economics*, 76 (4): 749-764.
- 1998 'The Parameters of Science and Technology Policy Formulation in South Africa', *African Development Review (Special Issue: Information, Knowledge and Africa's Development)*, 10: 73-89.
- 1995 **with Gwyn Campbell**, 'An Indian Ocean Rim Economic Association', *South African Journal of International Affairs*, 2: 11-37.
- 1995 'Towards a Science and Technology Policy for the South African Manufacturing Sector', *Development Southern Africa*, 12: 49-62.
- 1990 'R&D and the International Competitiveness of the South African Manufacturing Sector', *South African Journal of Economics*, 58 (3): 212-228.
- 1988 'Research and Development in South African Manufacturing Industries', *South African Journal of Economics*, 56: 67-75.

Conference Papers

- 2017 "The Viability of Systems of Innovation", *15th GLOBELICS International Conference*, 11-13 October, Athens, Greece.
- 2014 "Africa's Economic Relations with the Indian Ocean Rim: A Systems of Innovation Approach", *Conference on the Political Economy of Maritime Africa in the Indian Ocean Region Nairobi, 12-14 March 2014*.
- 2012 "Modes of Innovation and the Prospects for Economic Integration in Africa", prepared for the *Second Scramble for Africa Conference*, Africa Institute of South Africa, Tshwane, South Africa, 23-24 May 2012.
- 2011 "National Systems of Innovations in the time of Global Economic Crisis", draft paper prepared for *Seminar on Innovation Policies and Structural Change in a Context of Growth and Crisis*, Rio de Janeiro, Brazil, 13-15 September 2011 – Forthcoming as a book chapter (2012).
- 2011 "Economic Integration in Africa – The Systems of Innovation Approach", *Africa in the 21st Century and the Quasiquicentennial of the Scramble of Africa: An International Symposium*, Africa Institute of South Africa, Tshwane, South Africa, 25-27 May 2011 – Forthcoming as a book chapter (2012).

- 2009 “Modes of Innovation and the Evolution of the South African National System of Innovation”, *GLOBELICS 7th International Conference*, Dakar, Senegal, 6-8 October, 2009 (available at http://smartech.gatech.edu/xmlui/bitstream/handle/1853/35504/1252916417_MS_1.pdf?sequence=1).
- 2008 “Provincial Systems of Innovation and Globalisation in South Africa”, International Conference on “Apparent Antithesis: Globalisation and Local Development”, School on Local Development, University of Trento – Trento, 9th - 11th October 2008.
- 2001 “The Prospects for Regional Innovation System(s) within Sub-Saharan Africa”, *International Workshop on African Systems of Innovation and Competence-building in the Era of Globalisation*, Aalborg University, Denmark
- 2001 “The Conceptual Fluidity of National Innovation Systems - Implications for Innovation Measures” *DACST/OECD Seminar on Innovation Measurement in OECD and non-OECD Countries*, Pretoria, South Africa
- 1998 **with Paola Beck**, “Cultural Industries in South Africa: Implications for Cultural Development”, *Tenth Biennial International Conference on Cultural Economics*, hosted by The Association for Cultural Economics International, Barcelona, Spain.
- 1995 “The Competitiveness of the Southern African Customs Union Within the Context of the Indian Ocean Rim Region”, *Conference on France, Southern Africa and the Indian Ocean*, Africa and Indian Ocean Project/French Institute for Scientific Research on Development in Cooperation, Johannesburg.
- 1994 "The Technology of an Education in Economics" - *The Society for the Advancement of Socio-Economics*, Sixth Annual International Conference, (HEC, Jouy-en-Josas, France).
- 1993 “The Determinants of R&D Activity within the South African Manufacturing Sector”, *EBM Research Conference*, University of the Orange Free State, Bloemfontein
- 1979 Presented the Maltese proposal on ‘Regional Industrial Co-operation’ at the *CSCE Meeting of Experts on the Mediterranean*, Malta.

Working Papers

- 2020 ‘Systems of Innovation and Economic Theory’, *Cambridge Open Engage*, doi:10.33774/coe-2020-6w1b8 at <https://www.cambridge.org/engage/coe/article-details/5eb5721e279bd8001c8ed11b>.
- 2019 ‘Organised Labour and the National System of Innovation in South Africa’, *IERI Working Paper WP2019-006*, DOI: 10.13140/RG.2.2.28924.18561, at <https://ieri.org.za/publications/organised-labour-and-national-system-innovation-south-africa>
- 2019 ‘Human Capabilities and the Evolutionary prospects for Systems of Innovation in Sub-Saharan Africa’, *IERI Working Paper WP2019-002*, DOI: 10.13140/RG.2.2.24874.47046, at <https://ieri.org.za/publications/human-capabilities-and-evolutionary-prospects-systems>
- 2019 ‘The Viability of Systems of Innovation’, *IERI Working Paper WP2019-001*, DOI: 10.13140/RG.2.2.23375.53927, at https://ieri.org.za/sites/default/files/outputs/MScerri_Viability_Systems_of_Innovation.pdf

- 2018 ‘Systems of Innovation and Economic Theory – a Genealogical Approach’, *IERI Working Paper WP2018-001*, DOI: 10.13140/RG.2.2.36146.04804, at <https://ieri.org.za/sites/default/files/outputs/WP%202018%20MS%2001.pdf>
- 2010 **with Helena Lastres**, “Comparative Report on the State and the National System of Innovation in BRICS”, *RedeSist*, http://brics.redesist.ie.ufrj.br/proj_idrc/cp_report/Comparative_report_on_State.pdf
- 2010 **with Maria Clara Couto Soares and Rasigan Maharajh**, “Comparative Report on Innovation Systems and Inequality in the BRICS”, *RedeSist*, http://brics.redesist.ie.ufrj.br/proj_idrc/cp_report/Comparative_report_on_Inequality.pdf
- 2010 **with Ana Arroio**, “Comparative Report on the Role of Small and Medium Enterprise in the National System of Innovation in BRICS”, *RedeSist*, http://brics.redesist.ie.ufrj.br/proj_idrc/cp_report/Comparative_report_on_SME.pdf
- 2009 IERI WP_002, “Modes of Innovation and the Evolution of the South African National System of Innovation”
- 2008 “The Post-apartheid National System of Innovation”, School of Local Government, University of Trento
- 2008 IERI WP 005, "Provincial Systems of Innovation and Globalisation in South Africa"
- 2004 “Neoclassical Theory and the Teaching of Economics”, Faculty of Economics and Finance, Tshwane University of Technology
- 1994 “The Determinants of R and D within the Context of the South African Manufacturing Sector”, *Working Paper, Political Economy of Development Seminars*, (Department of Economics, School of Oriental and African Studies, London University)
- 1994 “Appropriate Technology and the Teaching of Undergraduate Economics”, *Working Paper, Centre for Economic Policy for Southern Africa*, (Department of Economics, School of Oriental and African Studies, London University).

Presentations

- 2020 ‘Maximising Regional Economic Integration: Stimulating Regional and Continental Value Chains for local manufactures: What is needed?’, *Science Forum Session: Legacy of South Africa’s AU Chairship: Trade and Innovation under the African Continental Free Trade Area*, 10th December 2020.
- 2020 ‘Health and Innovation Policies during COVID – Crisis or Rupture?’, *IBSA Seminar*, 8th October 2020, hosted by Redesist, Federal University, Rio de Janeiro.
- 2019 ‘New Paradigm of Governance of STI: The Role of Parliaments’, *SADC/UNESCO SADC STI Systems Capacity Building Workshop*, Department of Science and Innovation, Pretoria, South Africa: 4-6 December 2019.
- 2019 ‘National and Regional Systems of Innovation’, *SADC/EU/GZI Workshop on Strengthening the National Institutions Responsible for STI Policy Implementation*, Birchwood Hotel, Johannesburg, South Africa; 27 - 29 November 2019.
- 2019 ‘The Integration of STI Policies with Trade and Industrial Policy Areas Within and Across the African continent: A Cautionary Note’, African Unity for Renaissance Project, 22-23 May 2019, Tshwane, South Africa.
- 2019 ‘Systems of Innovation and Economic Theory – a Genealogical Approach’, *Karl Mittermaier Symposium*, The Johannesburg Institute for Advanced Studies, University of Johannesburg, 18th March 2019.

- 2018 ‘Methodology for the Developing of a National Innovation Policy’, *WIPO-NIPMO Workshop on IP Innovation Policy*, organized by the World Intellectual Property Organization (WIPO) and the National Intellectual Property Management Office (NIPMO), of the Department of Science and Technology of the Republic of South Africa, Johannesburg, Hilton Hotel, South Africa, May 7 to 11, 2018.
- 2018 ‘The Emergence of Systems of Innovation in Southern Africa: Long Histories and Current Debates’, *Book Presentation*, 26th March 2018, CSIR, Pretoria.
- 2018 ‘The Viability of Systems of Innovation’, *SADC Parliamentarians and High-Level Officials Training Workshop on STI Policy and Governance*, 5-7 February 2018, Pretoria, South Africa.
- 2017 ‘The Role of the State and the Private Sector in Developing Regional Value-Chains’, *Science Forum South Africa: SADC Industrialisation Strategy*, 8th December 2017, CSIR Convention Centre, Pretoria
- 2017 ‘The Viability of Systems of Innovation (the SADC region)’, *The Viability of Systems of Innovation – Perspectives from the IBSA*, 7th December 2017, IERI Seminar, Pretoria.
- 2017 ‘Socio-Economic Transformation: Challenges and Opportunities’, *Rural Economic Development, Industrialisation & Strategic Planning: Indaba 2017*, 29 November – 1 December, Sun Square Gardens, Cape Town.
- 2017 ‘BRICS and the Prospects for the South African System of Innovation’, *South African BRICS Think Tank: Trade Union Forum*, 16th November 2017: NIHSS
- 2017 ‘Global trends in STI policy and performance – viability of national STI systems – summary of UNESCO Science Report-Towards 2030’, *Workshop on the 6th Edition of the UNESCO Science Report*, Department of Science and Technology, 21st July, DST Auditorium, Pretoria.
- 2016 ‘Human capabilities and the national system of innovation – the ‘fundamentals’ debate”, *HSRC Seminar: The ‘Human Capital Pipeline’, Human Capabilities and the South African System of Innovation*, 8th March 2016, CSIR, Pretoria.
- 2016 ‘STI Measurement, Policies and Convergence within the SADC Region’, at the *Regional Workshop on Capacity in Data Development in Science, Technology and Innovation (STI) and STI Policy Implementation for Sustainable Development in Africa*, 21-25 November 2016, Southern Sun Hotel OR TAMBO, Johannesburg, South Africa
- 2016 ‘The Global Economy in 2025’, for *World Expo 2025 South Africa-Development of theme Workshop, for the Mapungubwe Institute for Strategic Reflection (MISTRA)*, 8-9 September 2016, Cedar Woods Conference Centre, Sandton, South Africa.
- 2016 ‘The viability of systems of innovation in the SADC region’, *SADC – Science, Technology and Innovation Policy and Indicators meeting*, 1st April 2016, Cresta Lodge Hotel, Gaborone, Botswana.
- 2015 Chair and Moderator – ‘Creatively destroying Africa: Rethinking Inclusion, Integration, and Sustainable Development through Science, Technology and Innovation’, *DST Science Forum*, 8th December 2015, CSIR Conference Centre, Pretoria.
- 2014 “The emergence of BRICS: A new phenomenon in the global innovation system?”, *HSRC BRICS Seminar Series*, 14th October 2014 and *Broadening Participation Division (BPD) Department of Trade & Industry*, 2nd December 2014.
- 2014 “Systems of Innovation and STI Policy – from Theory to Practice”, *Critical Mass Training Workshop, Ministry of Science and Technology (MoST) Federal Democratic republic of Ethiopia*, 9th - 14th August 2014, Bahir Dar, Ethiopia

- 2014 “Modes of Innovation and the BRICS National Systems of Innovation”, *BRICS in the XXI Century Conference*, COPPE Institute (Instituto Alberto Luiz Coimbra de Pós-Graduação e Pesquisa em Engenharia of the Federal University of Rio de Janeiro-UFRJ) and INTERSUL (the Institute for Strategic Studies for the Integration of South America), 20-23 May 2014, Rio de Janeiro, at <https://docs.google.com/file/d/0By2retOfN0xoSGx1a2F5bng3RjA/edit?pli=1>
- 2014 “Perspectives on Science, Technology and Innovation Diplomacy”, *Redefining South Africa’s Science and Technology Diplomacy – Seminar on South Africa’s Science and Technology Diplomacy*, Department of Science and Technology, Pretoria, 13th May 2014.
- 2014 “Africa’s Economic Relations with the Indian Ocean Rim: A Systems of Innovation Approach”, *Conference on the Political Economy of Maritime Africa in the Indian Ocean Region*, Indian Ocean Rim Association – Academic Forum, Nairobi, 12th March to 14th March 2014.
- 2012 “STI policy, legislation, regulation and guidelines”, *STI Reform Workshop*, Ministry of Communication, Science and Technology, Dar es Salaam, Tanzania, 15th – 17th August 2012.
- 2012 “Promotion of inclusive innovation and grassroots innovation”, *STI Reform Workshop*, Ministry of Communication, Science and Technology, Dar es Salaam, 15-17 August 2012.
- 2012 “Understanding the Emerging Rising Powers: G20 and BRICS Acting in whose Interests?”, *Overview of the geo-political shifts and political economy shaping South-South relations and emerging economies joining the global elite formations such the G20*, IERI, Tshwane, 15 November 2012.
- 2011 “South Africa within the BRICS: an innovation system perspective”, at the Science, Technology, and Policy Studies (STePS) unit at the University of Twente, Netherlands, on the occasion of my role as an opponent at the PhD thesis defence of Britta Rennkamp (“Innovation for all? Legitimizing science, technology and innovation policy in unequal societies”), on the same day, 28th October 2011.
- 2010 “The Introduction of the Systems of Innovation Approach in Economics Curricula - Strategies and Consequences” at the *Innovation for development: frontiers of research, policy and practice International symposium* organised and hosted by the University of the Witwatersrand, Johannesburg, South Africa, February 2010
- 2009 “The role of the state in the South African System of Innovation” to the *International Seminar on Innovation and Development under Globalisation: BRICS Experience*, 19-21 August, Trivandrum
- 2009 “Transnational corporations and National Systems of Innovation: the case of South Africa” to the *International Seminar on Innovation and Development under Globalisation: BRICS Experience*, 19-21 August, Trivandrum.
- 2008 “The State and the National System of Innovation” to the *International Seminar on Innovation and Development under Globalisation: BRICS Experience*, 28-30 August, Stellenbosch

Commissioned Research

- 2016 *The Global Economy in 2025*, for **World Expo 2025 South Africa**, funded by the Mapungubwe Institute for Strategic Reflection (MISTRA), South Africa
- 2014 **with Carl James, Teija Lehtonen and Henriika Lindroos**, *Mid-term Evaluation of the Southern Africa Innovation Support Programme (SAIS)*, funded by the Ministry for Foreign Affairs of Finland.
- 2013 **with Rasigan Maharajh**, *Current Debates on Innovation, Development and Social Upliftment* (Review Article commissioned by the National Advisory Council on Innovation of South Africa).
- 2012-2013 **with Rasigan Maharajh and Maclean Sibanda**, *A System of Innovation that Works: An External Review of the Background Report on the National System of Innovation of the United Republic of Tanzania*, (Tanzania: Ministry of Communication, Science and Technology; South Africa: Department of Science and Technology).
- 2010 **with Rasigan Maharajh**, Chapter 2 in *African Innovation Outlook 2010* (AU-NePAD)
- 2009-2013 **with Helena Lastres**, editor: *The state and the national system of innovation: a comparative analysis of the BRICS economies*, for the Fundação Universitária José Bonifácio project on project on *National Innovation Systems of BRICS Countries* (GLOBELICS/IDRC)
- 2009-2013 **with Ana Arroio**, editor: *The Role of Small and Medium Enterprise in the National Innovation System of Brazil, Russia, India, China and South Africa*, for the Fundação Universitária José Bonifácio project on project on *National Innovation Systems of BRICS Countries* (GLOBELICS/IDRC)
- 2009-2013 **with Maria Clara Couto Soares and Rasigan Maharajh**, editor: *Innovation and inequality in the BRICS economies*, for the Fundação Universitária José Bonifácio project on project on *National Innovation Systems of BRICS Countries* (GLOBELICS/IDRC)
- 2009 “The Role of the State in the South African System of Innovation” in Scerri and Lastres (eds.)
- 2009-2011 Consultant for the *Department of Human Settlements*, South Africa
- 2009 **with Alan Penny, David Freer and Nuria De La Fuente Teixido**, *Formulation of a Project to create an Erasmus Mundus South Africa window*, for The European Commission Delegation, Pretoria, South Africa.
- 2009 “The Role of the State in the South African System of Innovation” for the Fundação Universitária José Bonifácio project on project on *National Innovation Systems of BRICS Countries* (GLOBELICS/IDRC)
- 2003 **with Mojalefa Ralekhetho and Michael Antwi**, *The Mayaeyane Village Project: An Economic Analysis*, for the Research Directorate, Office of the Premier, North West Provincial Government.
- 2001 From September 2000 to March 2001 I was co-opted by the Department of Arts, Culture, Science and Technology (DACST) to assist in the planning and the organisation of an international seminar on the measurement of innovation activities. The seminar was held in Pretoria on the 28/29 March 2001. This seminar was jointly organised by the Department of Arts, Culture, Science and Technology (DACST) and the Organisation for Economic Co-operation and Development (OECD) Directorate for Science and Technology Policy. To this end I was engaged to establish a team consisting of four graduate students and two staff members (an economist and a biotechnologist) to work on this project and to build research capacity in this area. Apart from the obvious implications for the measurement of technological innovation

- in South Africa, one of the main planned outputs of this project is a book on appropriate innovation measures for developing economies.
- 2001 Member of the DACST team attending the annual meeting of the National Experts on Science and Technology Indicators working party of the OECD in Rome.
 - 2000 Evaluation of the Inter-Agency Agreement between the South African Department of Labour and the United States Department of Labour.
 - 2000 Evaluation of research projects funded by USAID.
 - 1999 Establishment of the criteria for the *Project Monitoring Performance* evaluation for the USAID Strategic Objectives.
 - 1999 Development of a *Supra-Economic Index for South Africa* for **USAID**.
 - 1998 Project coordinator on “The relevance of SADC on the Trade Patterns of Member Countries and Wholesale Price Differentials for Selected Commodities”, **Aurora Associates, USAID**
 - 1997 **with Bangani Ngeleza**, “A National Register on Further Education and Training”, *National Institute for Community Education*
 - 1996 **with Peter Karungu**, "The Impact of the Declining Rand on Inflation in South Africa", internal report submitted to the Central Statistical Services, Pretoria. Among other considerations the study involved collection of price indices (consumer and producer) with specific attention to the impact of inflation on various income categories.
 - 1996 “An Assessment of *Strategic Objective 4: Economic Policy Capacity*”, USAID. The scope of this consultancy was to develop indicators relevant to capacity building within policy advisory bodies concerned with addressing problems of economic development and poverty within South Africa.
 - 1996 “An Assessment of *Strategic Objective 5: Sustainability of Small, Medium and Micro Enterprises*”, USAID. The objective of this project was to ensure the financial and advisory support to SMMEs playing a significant role in the process of development in South Africa. The main thrust of the project was to ensure the initiation of a process of economic empowerment for previously marginalised population groups.

Scientific Article Referee for:

African Journal of Governance and Development
 African Journal of Science, Technology and Development
 Climate Policy
 Education as Change
 Journal of Technological Learning, Innovation and Development
 Innovation and Development
 Journal for Economic Policy Reform
 Research Policy
 Science and Public Policy
 STI Policy Review

Awards

- 1989 **The Convocation Distinguished Teacher's Award** in the Faculty of Commerce, University of the Witwatersrand.
- 1988 **J J I Middleton Award** for the best first article published in the *South African Journal of Economics* by a South African resident.