

CURRICULUM VITAE

Name: Maria Fernanda D. Gomes
Nationality: Mozambican
Professional Position: Research Coordinator – Retired, Consultant
Academic qualifications: BSc honours in Agronomy; MSc (Land and Water Management – option Irrigation management); PhD (Agricultural Water Management)
Address: Rua 1395, nº 103, Bairro Sommerchield, Maputo, Mozambique
Phone: +258 823043160 or +258 843043160 (cel)
Email: fernandagomes.moz@gmail.com

- Member of the Engineers Society of Mozambique (since 2004).
- Awarded with the Prize of Merit “Women in Science” by the Ministry of Science and Technology of Mozambique (2005).

Post School education:

- PhD in Agricultural Water Management - Cranfield University, School of Agriculture Food and Environment, United Kingdom - 1993/96.
- MSc in Land and Water Management, option irrigation water management - Cranfield University, Silsoe College, United Kingdom - 1990/91.
- BSc Honours in Agronomy (Universidade Eduardo Mondlane, 1977-1981).

Language proficiency:

	Speaking	Reading	Writing
Portuguese	Excellent	Excellent	Excellent
English	Very Good	Very Good	Very Good
French	Fair	Fair	Limited
Spanish	Good understanding and reading		

Synopsis of professional experience:

- Research on agricultural and agro-forestry practices, crop water management and climate change adaptation; several publications (Annex 1).
- Project Coordination and Management, Small Scale irrigation development.
- Training: Lectures on irrigation and drainage, seminars, training of extension staff.
- Several Consulting activities in the areas of agriculture, agriculture research and development, irrigation, natural resources management, crop water management, environmental impact assessment, policy and program formulation, project proposals, training and curricula development, disaster risk management and climate change.

Employment record:

Since June 2015: Full time Independent Consultant

2011 – 2015: Agricultural Research Institute (IIAM), Directorate of Agriculture and Natural Resources. Position: Research Coordinator. Retired in June 2015.

Development of a Research Program on Climate Change Adaptation in Mozambique financed by the CGIAR programme on Climate Change Agriculture and Food Security through CIAT (International Center for Tropical Agriculture); Duration: September 2012 to December 2014.

Development of the project proposal for the creation of a Regional Center of Leadership (RCoL) for Rice Research and Development in Mozambique, as part of the Agricultural Productivity Program for Southern Africa (APPSA), a 6 year program financed by the World Bank – IDA, project launched in November 2013.

2009 - 2011: Ministry of Agriculture - National Directorate for Agrarian Services (DNSA). Position: Project Manager

Manager of PROIRRI (Sustainable Irrigation Development Project) - Preparation Phase, 18 months. Funded by the World Bank. The work comprised the preparation of the main documents to support project conception and design, project coordination and management including administration, procurement, monitoring and evaluation and progress reporting. Project launched in June 2011.

2009: National Institute for Natural Disasters (INGC). Position: Advisor

Advisor for Arid and Semi arid Zones – PRO-GRC a project for strengthening the capacity of the INGC for disaster risk management, in particular drought risk management in a climate change environment - financed by GTZ.

2006 - 2008: ADIPSA – Support to Agricultural Private Sector Development.

Position: Project Coordinator

National Coordinator of ADIPSA, a DANIDA funded project to support agricultural private sector development initiatives, Project operating in 3 regions through 3 Regional Management Units (South – Province of Maputo; Centre – Provinces of Manica and Tete; North: Provinces of Nampula and Cabo Delgado).

2002 to 2006: Ministry of Agriculture - National Directorate for Agricultural Hydraulics. Position: Project Coordinator

National Coordinator of the Small Scale Irrigation Project, funded by the Government of Mozambique and the African Development Bank, covering small scale irrigation development, agriculture research and technology transfer, direct support to farmers, irrigation operation and management and institutional capacity building. Provinces of Maputo, Sofala and Zambezia, Mozambique.

1984 - to 2001: National Agronomic Research Institute (INIA).

Positions occupied during this period were: Head of the Agrohidrology Division of the Land and Water Department; Coordinator of the Crop Water Management Research Program, Head of the Scientific and Technical Secretariat of INIA and member of the Scientific Council of INIA.

Participation on several national, regional and international scientific events. Several scientific publications.

Relevant activities:

- National survey of the irrigated areas; pedo-hydrologic studies for irrigation and drainage development; Research in crop water management for both rainfed and irrigated agriculture, including on-station and on-farm experiments. Studies on crop evapotranspiration, yield response to water, development of crop yield - water use production functions, soil water balance, water use efficiency, irrigation scheduling and irrigation efficiency, soil and water conservation techniques, water demand management.
- Lectures on Irrigation and Drainage and thesis supervision at the Eduardo Mondlane University. Training of extension agents on irrigation and drainage management.
- Member of the Steering Committee of the SADC-Land and Water Management Research Programme. Member of a scientific reference group from the SADC region to assist in the elaboration of the Regional Strategic Plan for Agriculture Research and Training.

1982 - 1984: Directorate of Green Zones (Maputo). Position: Director, Head of Technical Department.

Establishment of 'Casas Agrárias' – a local extension service to support the agricultural activities in the green belt of Maputo city through the establishment of demonstration plots, training of extension staff and farmers, support to agricultural cooperatives managed by women.

1978 - 1981: National Agriculture Research Institute (INIA). Position: internship Part time job while concluding the University degree. Plant Protection Department, Phitopatology.

RELEVANT CONSULTING ACTIVITIES (1997-2020)

- Member of the consulting team for the preparation of the Country Report on Water Resources Development at Basin and National level. CONSULTTEC, work carried out for the National Water Directorate (1997).
- Environmental Impact Assessment of PROAGRI. Member of the consulting team. IUCN-University of Cape Town (1998).

- Member of the consulting team for the Joint Study of the Incomati River Basin (Mozambique, Swaziland and South Africa). CONSULTTEC, work carried out for the National Water Directorate (1999).
- Formulation of the concept paper for National Irrigation Policy and Implementation Strategy – team leader of a national consulting team. FAO and DNHA (2000).
- National consultant for the identification and preparation of a Project focusing on Risk Prevention and Management of Natural Disasters by the Communities. A river basin approach. GTZ (2000).
- National inventory of irrigated areas in Mozambique - team leader of a national consulting team. DNHA-FDHA (2001).
- Academic auditing for the creditation of the engineering courses at the University Eduardo Mondlane; team leader for the Academic Auditing to the Agronomy and Forestry Faculty. Engineering Society of Mozambique (2007).
- Currícula development on agriculture & agro-industry for the Technical and Vocational Education and Training – preparation of the training modules and manuals regarding irrigation and soil and water conservation systems. Ministry of Education – PIREP, financed by World Bank (2008).
- Public expenditure review for the irrigation sector in Mozambique as part of the Agriculture Expenditure Review – team member. ICC/HTSPE/OGIMATECH, study funded by EC (2008)
- Climate Smart Good Agricultural Practices in Mozambique (GAP) - Study List of the Practices. FAO Sub Regional Office for Southern Africa (2011).
- Project proposal preparation for strengthening capacities of agricultural producers to cope with climate change to increase food security through the Farmers Field School approach in Mozambique. Member of the Consulting team. FAO – Mozambique (2014).
- Manual for trainers of the Technical and Vocational Education and Training in Agriculture – Module on Irrigation operation and maintenance. Mozambique, Ministry of Education, PIREP – FAEF/CEAGRE (2014-2015).

- Preparation of the National Irrigation Program of Mozambique, including the institutional development plan and the legal framework for irrigation development. National Irrigation Institute; Member of the consulting team, consortium PROCESL and Consultec, (2014-2015).
- Evaluation of agricultural R&D in Angola and Elaboration of an Agricultural Research and Development Program for the Agronomic Research Institute of Angola. World Bank Project “Market Oriented Small Scale Agriculture Project – MOSAP”, (1st Phase – March, 2016: 2nd Phase – June, 2017).
- Conceptualization and design of the Smallholder Irrigated Agriculture and Market Access Project (IRRIGA) in Mozambique, a World Bank – IDA financed project. INIR-PROIRRI (August-December 2017).
- Design Mission/Preparation Mission for the Agricultural Productivity Programme for Southern Africa (APPSA) in Angola, a World Bank financed project. FAO – TCIA. (May-June 2017, February and May 2018).
- Design Mission&Preparation Mission for the Agricultural Productivity Programme for Southern Africa (APPSA) - Support to the Angola Ministry of Agriculture (MoA) – Agriculture Research Institute (IIA) team in finalizing detailed Project Implementation Manual (PIM) for APPSA (April-May 2019).
- Participation, as a member of invited stakeholders, in a 4-day writeshop to refine the content of the strategic documents towards the finalization of CCARDESA 10 Year Strategy and Medium Term Operational Plan (May 2019).
- Impact Evaluation of the Agricultural Productivity Programme for Southern Africa (APPSA) Mozambique, Malawi & Zambia – CCARDESA. Member of the Consulting team of bt-Associates, APPSA Impact Evaluation Report (November 2019 to March 2020).

May, 2020

Annex 1: List of Publications

Gomes, F. e Cavaliere, G.A. (1985). Sistema de rega para um campo de forragens na Unidade de Produção de Coelho do Umbeluzi. *Nota técnica nº 35, Série Terra e Água do Instituto Nacional de Investigação Agronómica*. Maputo, Mozambique.

Gomes, F. (1986). As possibilidades para a agricultura de uma parte da Baixa Costeira de Maputo. B: Aspectos Agrohidrológicos: Possibilidades de drenagem. *Nota Técnica nº 50 B Série Terra e Água do Instituto Nacional de Investigação Agronómica*. Maputo, Mozambique.

Gomes, F. e Mihajlovich, D. (1987). Áreas de Rega: Inventário e Possibilidades Futuras. *Comunicação nº 53, Série Terra e Água do Instituto Nacional de Investigação Agronómica*. Maputo, Mozambique.

Dykshoorn, J.A., Marques, M.R., Serno, G., Gomes, F., and Brito, R. (1988). Estudo Pedo-hidrológico do Vale do Infulene - parte Sul da via rápida da Moamba. Parte A: Solos; Parte B: Agrohidrologia. *Série Terra e Água do INIA, Comunicação nº 58*. Maputo, Mozambique.

Gomes, F., Marques, M.R. e Serno, G. (1989). Estudo Pedo-hidrológico da área do Instituto Pedagógico do Umbeluzi, Boane - Província de Maputo. *Comunicação nº 56. Série Terra e Água do Instituto Nacional de Investigação Agronómica*. Maputo, Mozambique.

Serno, G., Gomes, F. e Vilanculos, M. (1989). Levantamento detalhado dos solos do Bloco 5 da Lomaco, Matuba, Chokwé - Província de Gaza. *Comunicação nº 62, Série Terra e Água do Instituto Nacional de Investigação Agronómica*. Maputo, Mozambique.

Gomes, F. (1992). Crop Yield – Water use Production Functions for Sweet Potatoes in the South of Mozambique. MSc Thesis, *Silsoe College, Cranfield University, UK*.

Gomes, F. (1992). Batata doce: Com seca não morre, com água promete. *Revista Extra, Maio - Agosto 1992, pp 55-56*. Maputo, Mozambique.

Gomes, F. (1992). Yield Response to Water of Four Groundnut Cultivars in Southern Mozambique. *Proceedings of the Third Annual Scientific Conference of SADC-Land and Water Management Programme - Harare, Zimbabwe, October 5-7*.

Gomes, F. (1993). Increasing Water Use Efficiency of Sweet Potatoes in Southern Mozambique - Crop Management Practices. *Proceedings of the Fourth Annual Scientific Conference of SADC - Land and Water Management Programme* - Windhoek, Namibia, October 11-14.

Gomes, F. (1994). Resposta a Água de algumas variedades de batata doce no Baixo Umbeluzi. *Série Terra e Água do INIA*. Maputo, Mozambique.

Gomes, F. (1994). A Água na Agricultura: Como fazer o melhor uso da água que temos. *Dia Mundial de Alimentação de 1994, Ministério da Agricultura*. Maputo, Mozambique.

Bobotela, J.A. e Gomes, F. (1994). Comportamento do amendoim em condições de sequeiro. *Dia Mundial de Alimentação de 1994, Ministério da Agricultura*. Maputo, Mozambique.

Gomes, F. (1996). Effects of drought and vine cutting management on the productivity of sweet potato in Southern Mozambique. PhD Thesis, *Cranfield University, School of Agriculture Food and Environment*, UK.

Gomes, F. e Jolamo C. (1997). Conservação de Água no Solo: Efeito da cobertura do solo no rendimento do amendoim no Sul de Moçambique. *III Simpósio de Hidráulica e Recursos Hídricos dos Países de Língua Oficial Portuguesa*. Maputo, 15 a 17 de Abril de 1997.

Gomes, F., Marques, M.R., Mafalacusser, J., and Brito, R. (1998). Wetlands for Agricultural Development, Mozambique Country Report. In: *Proceedings of the Expert Consultation on Wetlands Classification for Agricultural Development in Easter and Southern Africa*, Harare, 03-06/12/1997.

Gomes, F., Marques, M.R., Mafalacusser, J. (1998). Characterisation of the Agricultural Potential of Maputo Province for selected crops (maize, soybeans, sorghum, sunflower, cassava, vegetables and fruits). *Report prepared for União Geral das Cooperativas de Maputo*. Maputo, Mozambique.

Gomes, F., Xerinda, S., Mafalacusser, J., and Marques, M.R. (1999). Water Demand Management in Southern Africa. *Mozambique Country Study*. IUCN – ROSA.

Gomes, F. e Soares, X. (1999). Conservação e Uso da Água na Agricultura no Sul de Moçambique. Regadio do Chókwé, Rio Limpopo. *IV Simpósio de Hidráulica e Recursos Hídricos dos Países de Língua Oficial Portuguesa*, 24 - 26/05/1999. Coimbra, Portugal.

Gomes, F., e Famba, S. (1999) Water Resources for Crop Production. Mozambique Country Report. In: *Workshop on Integrated Analysis and Management of Renewable Natural Resources in Mozambique*. FAEF – UEM, 7-11/6/99. Maputo, Mozambique.

Goldblatt, M.; Ndamba, J.; Merwe, B. van der; Gomes, F.; Haasbroek, B., Arntzen, J. (2000). *Water Demand Management: Towards Developing Effective Strategies for Southern Africa*. IUCN Wetlands and Water Resources Programme.

Gomes, F. (2001). National Consultancy on Wetland Development and Management – Mozambique. *Prepared for the FAO Wetland Programme, FAO – SAFR*.

Gomes, F. and Carr, M.K.V. (2001). Effects of water availability and vine harvesting frequency on the productivity of sweet potato in Southern Mozambique. I. Storage root and vine yields. *Experimental Agriculture* pp. 37:523-537.

Gomes, F. and Carr, M.K.V. (2003). Effects of water availability and vine harvesting frequency on the productivity of sweet potato in Southern Mozambique. II. Crop water-use. *Experimental Agriculture* 39, pp. 39-54.

Gomes, F. and Carr, M.K.V. (2003). Effects of water availability and vine harvesting frequency on the productivity of sweet potato in Southern Mozambique. III Crop-yield/water-use response functions. *Experimental Agriculture* 39, pp.406-421.

Gomes, F., Carr, M.K.V., and Squire, G.R. (2005). Effects of water availability and vine harvesting frequency on the productivity of sweet potato in Southern Mozambique. IV Radiation Interception, Dry Matter Production and Partitioning. *Experimental Agriculture*, 41, pp93-108.

Marques, R., Mafalacusser, J. and Gomes, F. (2005). Inventariação e Avaliação dos Regadios Existentes no País (poster). Instituto Nacional de Investigação Agronómica

(INIA), Direcção Nacional de Hidráulica Agrícola (DNHA), and Fundo para o Desenvolvimento da Hidráulica Agrícola (FDHA).

Gomes, F. and Tamele, Celso (2009). Manual de Tecnologias para Redução da Vulnerabilidade à Seca. Instituto Nacional de Gestão de Calamidades (INGC), Institucional Strengthening Disaster Risk Management Project (PRO-GRC) – GTZ.