




## MEMBER PROFILE

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<b>Study areas</b>	
Countries / Regions	Swaziland, Zimbabwe, Lesotho and RSA / Southern Africa

<b>Topics of last three projects</b>	
1	Wetlands & climate change (WRC)
2	Soil erosion & rehabilitation
3	Land degradation, LDN and rehabilitation

	<b><u>Topics of last 10 publications</u></b>	<b><u>Publication links</u></b>
1	Land degradation and the management of Community Forest Resources in Swaziland (with S. Singwane)	
2	Environmental Sustainability of cultivation systems in wetlands in Zimbabwe (with T. Marambanyika)	
3	Soil conditions and the rehabilitation of soil erosion	
4	Methane and NOx fluxes in SA wetlands (with J-P Krueger et al.)	
5	The environmental context of severe erosion in the Ulundi District	
6	Greenhouse gas emission peaks following wetland rewetting (with J-P Krueger et al.)	
7	Gully erosion along major roads in South Africa (with K. Seutloali)	
8	Wetland utilization and conservation in communal areas (with T. Marambanyika)	
9	Water supply and demand in in Gweru, Zimbabwe (with W. Kusena)	
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## Research interests in water

<b>Climate &amp; Water</b>	Water in arid areas	Arctic water	Water cycle	Atmospheric water	Glaciers & Cryosphere					
<b>Hydrological extreme events</b>	Floods	Droughts	Ice phenomena							
<b>Water flow</b>	Catchment processes	Run-off generation	Groundwater-Surface water interactions	Hyporheic processes	Interstitial water	Porewater	Alluvial water			
<b>Surface water</b>	Limnology	Fluvial dynamics	Continental scale processes	Dams / Reservoirs	Sediments	Rivers	Floodplains			
<b>Ground water</b>	Soil water	Karst water	Hydrogeology	Recharge	Granite karst					
<b>Marine Environment</b>	Coastal waters	Estuarian waters								
<b>Aquatic habitats/ Ecosystems</b>	Wetlands	Lakes	Peatlands	Rivers						
<b>Water availability</b>	Water utility	Water storage	Dams / Reservoirs	Water scarcity	Supply & Distribution	Water allocation	Water restrictions			
<b>Modelling and GIS</b>	Hydro GIS	Groundwater modelling	Surface water modelling	Remote sensing						
<b>Water quality</b>	Pollution	Purification	Hydrochemistry	Treatment	Desalination	Waste water	Sewage			
<b>Water &amp; Health</b>	Water & Sanitation	Water & Food	Waterborne diseases	Drinking water	Water purification					
<b>Water &amp; Energy</b>	Water-Energy nexus	Water for energy	Energy for water	Water, Food & Energy						
<b>Water management/ policy</b>	Integrated Catchment management	Integrated water resource management	Water loss	Reticulation & Supply	Transboundary water					
<b>Water use</b>	Urban	Agricultural	Mine water	Industrial	Grey water	Green water	Blue water	Return water	Water sustainability	Competing water use
<b>Water Law &amp; Economics</b>	Water trade	Virtual water	Privatisation	Water as public good	Right to water	Bills & Laws	Affordability			
<b>Socio-political aspects</b>	Water history	Water wars	Water & Poverty	Access to water						