

Curriculum Vitae: Tashveera Jagganath

Nationality	South African
Education	MSc Environmental & Water Science (2021) Department of Earth Science, University of the Western Cape (UWC)
	BSc (Hons) Environmental & Water Science (2017) Department of Earth Science, University of the Western Cape (UWC)
	BSc Environmental & Water Science (2016) Department of Earth Science, University of the Western Cape (UWC)
Languages	English (fluent), Afrikaans (fair)
Membership of professional bodies	<ul style="list-style-type: none"> • Golden Key International Honour Society (2017 – present) • Groundwater Division of the Geological Society of South Africa (May 2023 - present) • Southern African Young Geomorphologists (SAYG) (June 2023 – present)

Employment record

Oct 2023 - Present	Project Co-ordinator OneWorld Sustainable Investments
Jun 2023 - Oct 2023	Project Assistant OneWorld Sustainable Investments
Oct 2022 - Jun 2023	Research Intern OneWorld Sustainable Investments
Dec 2021 - Jul 2022	Research Intern Water Research Commission (WRC), based at the Water, Sanitation & Hygiene Research & Development Centre (WASH R&D Centre)
Feb 2020 – Mar 2020	Environmental Policy and Strategy Intern City of Cape Town
Jan 2018 - Dec 2018	Life Science Tutor University of the Western Cape
Jan 2016 - Dec 2019	Laboratory Demonstrator University of the Western Cape

Relevant professional experience

July 2023 - present	Green Hydrogen Finance Landscape in South Africa German Agency for International Cooperation (GIZ)
	Project Assistant Mapping and analysis of the finance landscape related to the development of a green hydrogen market in South Africa.



	Assisted with stakeholder communication obtaining consent and verification of content for the Green Hydrogen Finance Fact Sheet for green hydrogen project developers in South Africa.
July 2023 - present	<p>Conducting sectoral climate change vulnerability assessments for Tanzania Mainland and Zanzibar</p> <p>United Nations Development Programme</p> <p>Project Assistant</p> <p>Conduct climate vulnerability assessments across nine sectors in Tanzania and Zanzibar, as well as the development of a methodological tool to enable the development of future climate change vulnerability assessments (CVA).</p> <p>Provided research for the project's inception report.</p>
Jan 2023 - present	<p>Groundwater Strategy for the Limpopo River Basin</p> <p>SADC Groundwater Management Institute (SADC-GMI)</p> <p>Project Assistant</p> <p>The project required the development of a groundwater strategy for the Limpopo River Basin to serve as a guiding document for joint groundwater development and management in the basin.</p> <p>Assisted with the mapping of stakeholders, coordination of stakeholder engagements and capturing responses from stakeholders among the four member states (South Africa, Botswana, Mozambique and Zimbabwe). I also provided research assistance for the project's inception report, stakeholder engagement report, and concept note. Additionally, I assisted with the planning and facilitation of the Groundwater Strategy Workshop.</p>
Feb 2023 – March 2023	<p>Support for the Facilitation and Events Management of Energy Dialogues</p> <p>Presidential Climate Commission (PCC)</p> <p>Project Assistant</p> <p>Organise and facilitate dialogues to bring together decision-makers and build consensus between social partners involved in the energy transition around the key decisions that need to be made to accelerate decarbonisation in the energy sector in ways that promote a socially just transition.</p> <p>Tasks included assisting with the mapping of stakeholders for the workshops and dialogues by communicating with stakeholders via telephone.</p>
Feb 2023 – March 2023	<p>Climate Landscape Analysis for Children (CLAC) and Climate Finance Strategy for Lesotho</p> <p>UNICEF</p> <p>Researcher</p> <p>The CLAC report aims to understand the overall Climate, Environment and Energy (CEE) landscape in Angola in terms of data availability, existing laws, policies and regulations, risks to children and potential benefits of climate actions, and the gaps in its consideration for children and child-sensitive approaches, to inform UNICEF's ongoing and future programmes in the country.</p> <p>Contributed to research in the areas of climate, energy and environment, for the Climate Landscape Analysis (CLAC) for UNICEF.</p>
Dec 2022 – Jan 2023	<p>Climate Landscape Analysis for Children (CLAC) for South Africa and Climate Action Plan 2022-2024</p> <p>UNICEF</p> <p>Researcher</p>

Conducting a Climate Landscape Analysis for Children (CLAC) and Action Plan, examining the baseline situation of climate, energy and environment-related issues affecting children and how they relate to UNICEF's priorities.

Contributed to research in the areas of energy and relevant policies, as well as the climate, energy and environment (CEE) nexus for the Climate Landscape Analysis (CLAC) for UNICEF South Africa. This will inform UNICEF South Africa's current country programme and provide recommendations for the new Country Programme Document.

Dec 2022

Climate Landscape Analysis for Children (CLAC) and Climate Finance Strategy for UNICEF Angola

UNICEF

Researcher

The CLAC report aims to understand the overall Climate, Environment and Energy (CEE) landscape in Angola in terms of data availability, existing laws, policies and regulations, risks to children and potential benefits of climate actions, and the gaps in its consideration for children and child-sensitive approaches, to inform UNICEF's ongoing and future programmes in the country.

Contributed to research in the areas of partnerships and funding opportunities for UNICEF Angola's Climate Finance Strategy.

Nov 2022 - present

Climate Landscape Analysis for Children & Climate Action Plan 2022-2024 for UNICEF Rwanda

UNICEF

Researcher

Conducting a Climate Landscape Analysis for Children (CLAC) and Action Plan, examining the baseline situation of climate, energy and environment-related issues affecting children and how they relate to UNICEF's priorities. The CLAC will help to inform and make recommendations for the new Country Programme Document 2024-2029.

Contributed to research in the areas of climate, energy, environment, relevant policies and funding opportunities for the CLAC for UNICEF Rwanda Contributed to research for the climate action plan for UNICEF Rwanda.

May 2022 - Jun 2022 Alternative Sanitation System Pilot Project

eThekweni Municipality: Department of Water & Sanitation, WASH R&D Centre

Researcher

The Alternative Sanitation System is an on-site low flush technology, with 3 variants. The purpose of the project is to identify the effects on users and the broader community emanating from the pilot phase of the alternative sanitation system. A minimum of 671 sanitation units were constructed across four wards as part of the pilot phase.

Compiled a literature review and management protocol based on an environmental impact assessment of the ventilated pit latrines and leachate toilets (the main concern for impact was groundwater contamination).

Feb 2022 – Feb 2022 Water Service Delivery in Municipalities

eThekweni Municipality (Department of Water & Sanitation), WASH R&D Centre

Researcher

The WASH R&D Centre has provided the eThekweni Water and Sanitation Unit (EWS) with scientific support in their efforts to develop and implement innovative water and sanitation services to the under-served, along with their mission of maintaining cost-competitive waste treatment service to the industry and ensuring the health and environmental status of the rivers and beaches.



Compiled a report that summarised the existing status of water service delivery in South Africa in terms of the geography of the municipalities, the state of provision of water services, and the state of the water payment system (tariffs etc.) for WASH R&D to use in their reports to eThekweni Municipality.

Jan 2022 – Jan 2022 Pynxat Project - Space for Sanitation

WOODCO Renewable Energy Ltd, WASH R&D Centre

Researcher

The project aimed to collect data from three key sources namely, a Pyrolysis machine to be used to process municipal sanitation sludge, toilet usage patterns from two community ablution blocks, and environmental information from river catchments. The data was collected through satellite systems followed by analysis using a smart sanitation data management platform using AI and machine learning. The data analysis aimed to provide insight into community health and allowed for the development of early warning systems to detect the onset of diseases.

Compiled a report that reviewed the scientific communication between WOODCO Renewable Energy Ltd and the informal residents in the community, ensuring that the project was communicated in a manner that was easy to understand.

Feb 2018 – Mar 2021 Non-Perennial Rivers Research Programme

National Research Foundation (NRF) and South African Environmental Observation Network (SAEON), University of the Western Cape

Lead Researcher

The project aimed to understand the relationships between river flow, ecosystem characteristics and services provided by non-perennial rivers. I conducted research specialising in fluvial geomorphology, with a focus on understanding spatial patterns of dispersal and deposition of fine sediment and adsorbed phosphates in the Wiedrift Wetland on the Nuwejaars River. Research findings were presented in thesis form to allow for predictions, decision-making, and management related to the ecological and social consequences of flow modifications of non-perennial rivers.

Feb 2018 – Nov 2018 Student Development and Support

Biodiversity and Conservation Biology Department, University of the Western Cape

Tutor

The Life Science 141 course at the University of the Western Cape (UWC) covered course material on cell structure and organelles and an introduction to processes taking place in these structures. DNA replication; DNA control of protein synthesis and thereby biochemical processes, mitosis, meiosis, chromosomes and genes, Mendelian and biochemical genetics, evolution.

The role of a tutor required me to be academically skilled in Life Sciences, with the added commitment and reliability to work with university students and provide support in tutorial-based assessments. My duties included facilitating, monitoring, and maintaining records of tutorials.

Feb 2016 – Nov 2019 Student Development and Support

Biodiversity and Conservation Biology Department, University of the Western Cape

Laboratory Demonstrator

The Life Science 141 course at the University of the Western Cape (UWC) covered course material on cell structure and organelles and an introduction to processes taking place in these structures. DNA replication; DNA control of protein synthesis and thereby biochemical processes, mitosis, meiosis, chromosomes and genes, Mendelian and biochemical genetics, evolution.

The role of a laboratory demonstrator required me to have adequate knowledge and practical skills in microscopy, cell structure and organelles, DNA biochemical processes, mitosis,



meiosis, chromosomes, genes, and biochemical genetics. I was responsible for providing assistance to students under the guidance of academic staff members, ensuring that students followed the general safety regulations for the laboratory and any specific precautions for each experiment, marking student practical exercises using defined marking criteria, invigilating examinations and maintaining student records.

Published Thesis

Jagganath, T. (2021). *Understanding spatial patterns of dispersal and deposition of fine sediment and adsorbed phosphates in the Wiesdrift Wetland on the Nuwejaars River, Cape Agulhas*. [online] Available at: <http://hdl.handle.net/11394/8660>

Jagganath, T. (2017). *An investigation of the effect of agricultural disturbance on carbon accumulation in depression wetlands on the Agulhas Plain, Western Cape, South Africa*. University of the Western Cape.