

## Curriculum Vitae: Tashveera Jagganath

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

## Employment record

2023 - Present	<p>Project Co-ordinator OneWorld Sustainable Investments</p>
2023	<p>Project Assistant OneWorld Sustainable Investments</p>
2022 - 2023	<p>Research Intern OneWorld Sustainable Investments</p>
2021 - 2022	<p>Research Intern Water Research Commission (WRC), based at the Water, Sanitation &amp; Hygiene Research &amp; Development Centre (WASH R&amp;D Centre)</p>
2020	<p>Environmental Policy and Strategy Intern City of Cape Town</p>
2018	<p>Life Science Tutor University of the Western Cape</p>
2016 - 2019	<p>Laboratory Demonstrator University of the Western Cape</p>

## Relevant professional experience

Sept 2022 – Present	<p>Aquifer mapping technologies for Zambia Climate Technology Centre and Network (CTCN) in collaboration with the United Nations Industrial Development Organization (UNIDO)</p> <p><b>Fieldwork &amp; Stakeholder Engagement Support</b> Providing technical assistance for the development of a robust groundwater action plan to support climate change adaptation strategies in Zambia, including the identification of water-saving technologies and the development of water balance and accounting studies, for a specific region.</p>
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Assisted in collecting groundwater data with Zambian technical experts in the Nyimba region of Zambia and engaged with government stakeholders to identify priority water-saving technologies.

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May 2024 - Present Development of a Climate Resilient Framework for Water, Sanitation and Hygiene services (WASH) to households, schools, early childhood development centres and healthcare facilities

UNICEF South Africa

**Project Coordinator, Stakeholder Engagement Coordinator, Researcher**

The objective is to develop a climate-resilient framework for WASH services in South Africa through desktop review and best practice review, assessment of gaps and needs in sanitation delivery and access, scenario building and adaptation plan development, finalisation of validated climate-resilient Framework for WASH Services and sanitation Adaptation Plans.

I conducted a literature review that included a desktop analysis of climate change impacts on sanitation systems, an evaluation of sanitation technologies, and considerations for developing a draft climate-resilient framework. I assisted the technical team in developing this framework and supported the testing of the climate-resilient WASH framework in both the Eastern Cape and Western Cape of South Africa.

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Feb 2024 – Present Project Preparation Services through the GCF Project Preparation Facility for the Development of the project: ‘Ecosystem-based Approaches for transforming smallholder farming systems that are Vulnerable to the Impacts of climate change in South Africa’

Green Climate Fund (GCF) and South African National Biodiversity Institute (SANBI)

**Researcher**

The project includes the development of a full Simplified Approval Process (SAP) Funding Proposal and Annexes for the GCF. This includes developing the Baseline Study, Pre-feasibility study, environmental and social action plan, gender action plan, grievance redress mechanism and risk management plan. It includes in-depth stakeholder engagement and the development of a stakeholder engagement report.

Contributed to research, with a focus on smallholder farmers in selected EbA farm catchments, in the Scoping Report.

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Jun 2024 – Feb 2025 Climate Finance Mainstreaming and Development of a Climate Finance Plan for Addis Ababa City, Ethiopia.

C40 Cities and the City of Addis Ababa

**Project Coordinator, Researcher**

This project aims to develop a Climate Finance Plan for Addis Ababa for accessing climate finance internationally and nationally and includes awareness raising and climate mainstreaming in key sectors (waste, energy, transport, disaster risk reduction).

Coordinated the project and contributed to the report from the hybrid kick-off workshop. With assistance from the in-country expert, developed a validation workshop report and participated in drafting the climate finance plan for the City of Addis Ababa. Drafted the project’s closeout report and completion certificate.

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Jan – Dec 2024 Development of a Resource Mobilisation Plan for the SADC Regional Strategic Action Plan on Water Resources Management and Development (RSAP)

GIZ and SADC Secretariat

**Researcher, Stakeholder Engagement Coordinator**

Supporting the SADC water sector by identifying and mobilising additional financial resources for activities identified in the RSAP. Involved in delivering a mapping of potential funding sources as well as a resource mobilisation plan, including stakeholder consultations in the form of document sharing, interviews, focus group discussions and workshops.

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	<p>Contributed to the preliminary stakeholder map report. Identified and mapped the potential stakeholders to engage for funding and implementation of the RSAP V. Coordinated stakeholder engagements (at the local, international, and transboundary level). Compiled key stakeholder findings for the development of the resource mobilisation plan.</p>
Oct 2023 – Mar 2024	<p>Establishment of Three Groundwater Management National Focal Groups (NFGs) and Capacity Building of Eight NFGs In SADC Member States</p> <p>SADC-Groundwater Management Institute (SADC-GMI)</p> <p><b>Project Assistant</b></p> <p>Establishment of three new groundwater management National Focal Groups (NFGs) in three Member States and to build the capacity of eight NFGs in eight SADC Member States to operationalise them in achieving their mandate.</p> <p>I evaluated the feedback from the training module participants and contributed to the project's training report. Drafted the certificate of completion for the project.</p>
Feb 2024	<p>Technical Assistance to the Cities Support Programme (CSP): Climate Resilience Projects Strengthening Intergovernmental Coordination</p> <p>Government Technical Advisory (GTAC), South African National Treasury</p> <p><b>Project Assistant</b></p> <p>The CSP seeks to improve climate resilience and urban governance of South Africa's eight metropolitan municipalities (metros). This project focused on designing and implementing adaptive processes and capacities for establishing and maintaining partnerships for climate resilience, renewable energy, disaster risk management, and climate finance across targeted metros. This includes supporting the partnerships and co-creation of flexible governance strategies for improving public sector service delivery to enhance metros' climate resilience.</p> <p>I reported on the project's background and deliverables clearly and concisely in the Final Closeout Report.</p>
Jan 2023 – Apr 2024	<p>Development of a Groundwater Strategy for the Limpopo River Basin</p> <p>SADC-Groundwater Management Institute (SADC-GMI), LIMCOM, International Development Agency (IDA)</p> <p><b>Project Assistant, Coordinator and Workshop Facilitator Assistant</b></p> <p>The project required extensive stakeholder engagement which informed the development of a groundwater strategy for the Limpopo River Basin. The strategy was developed 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 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 held in Gauteng, South Africa. Thereafter, I compiled a workshop report based on the outcomes of the Groundwater Strategy Workshop. Compiled the addendum to the workshop report which included Botswana Workshop consultations. Developed the project's final/closeout report. Drafted the certificate of completion for the project.</p>
Nov - Dec 2023	<p>UNESCO-UNEVOC TVET Leadership Programme facilitation and contribution of additional learning resources</p> <p>International Centre for Technical and Vocational Education and Training of the United Nations Educational, Scientific and Cultural Organization (UNESCO-UNEVOC)</p> <p><b>Webinar Rapporteur, Project Assistant</b></p> <p>The project partnered with UNESCO-UNEVOC to deliver a modular training programme for Technical and Vocational Education and Training (TVET) champions and leaders globally to transition to the green economy, and to build the capacity of TVET leaders and managers in</p>

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	<p>creating a new theory of change to prepare TVET systems and institutions for the green transition.</p> <p>Had the role of a rapporteur for an online knowledge-sharing platform for participants to interact in online webinars and drafted a final report on the TVET Leadership Programme 2023. Evaluated assessments from participants.</p>
Jul 2023	<p>Conducting Sectoral Climate Change Vulnerability Assessments for Tanzania Mainland and Zanzibar</p> <p>United Nations Development Programme (UNDP)</p> <p><b>Researcher</b></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>
Oct – Nov 2023	<p>UNESCO-UNEVOC Technical and Vocational Education and Training (TVET) Leadership Programme 2023: Facilitation and Contribution of Additional Learning Resources</p> <p>International Centre for Technical and Vocational Education and Training (UNEVOC) of the United Nations Educational, Scientific and Cultural Organization (UNESCO)</p> <p><b>Online Webinar Rapporteur</b></p> <p>Developed and delivered the 2023 edition of the UNESCO-UNEVOC TVET Leadership Programme on the topic 'Managing change through transformative leadership'. OneWorld facilitated five interactive online webinars, co-developed a set of training resource packages and materials, provided experts, and set and marked assignments for participants.</p> <p>Played the role of a rapporteur which included capturing discussions between global participants during the online knowledge-sharing webinars. I was also tasked with assessing participant reports (assessments) and allocating marks towards the final participant results.</p>
Jul 2023 – Oct 2023	<p>Green Hydrogen Finance Landscape in South Africa</p> <p>German Agency for International Cooperation (GIZ)</p> <p><b>Project Assistant</b></p> <p>Mapping and analysis of the finance landscape related to the development of a green hydrogen market in South Africa.</p> <p>Assisted with stakeholder communication by obtaining consent and verification of content for the Green Hydrogen Finance Fact Sheet for green hydrogen project developers in South Africa. In addition, compiled meeting notes of engagements with potential financiers, project developers and off-takers.</p>
Jun 2023 – Aug 2024	<p>Monitoring, Evaluation and Learning (MEL) Events</p> <p><b>Events Coordinator</b></p> <p>I support the Knowledge Management team organise trainings, Brown Bag Lunches (BBLs), and workshops for the internal OneWorld team. I am also responsible for scheduling invites for the consultancy's Connecting the Dots events which host external attendees.</p>
Feb 2023 – March 2023	<p>Support for the Facilitation and Events Management of Energy Dialogues</p> <p>Presidential Climate Commission (PCC)</p> <p><b>Project Assistant</b></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>

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Assisted with the mapping of stakeholders for the workshops and dialogues by communicating with stakeholders via telephone.

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Feb 2023 – March 2023 Climate Landscape Analysis for Children (CLAC) and Climate Finance Strategy for Lesotho  
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 climate, energy and environment, for the Climate Landscape Analysis (CLAC) for UNICEF.

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Dec 2022 – Jan 2023 Climate Landscape Analysis for Children (CLAC) for South Africa and Climate Action Plan 2022-2024  
UNICEF

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.

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.

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Dec 2022 Climate Landscape Analysis for Children (CLAC) and Climate Finance Strategy for UNICEF Angola  
UNICEF

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.

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

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.

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Oct 2022 – Present	<p>Business Development Operations OneWorld Sustainable Investments</p> <p><b>Business Development Support</b></p> <p>Tasks include the identification of business opportunities and tracking emerging trends, assisting with the compilation of relevant project experience and client references.</p>
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May 2022 - Jun 2022	<p>Alternative Sanitation System Pilot Project</p> <p>eThekweni Municipality: Department of Water &amp; Sanitation, WASH R&amp;D Centre</p> <p><b>Researcher</b></p> <p>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.</p> <p>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).</p>
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Feb 2022 – Apr 2022	<p>Water Service Delivery in Municipalities</p> <p>eThekweni Municipality (Department of Water &amp; Sanitation) and WASH R&amp;D Centre</p> <p><b>Researcher</b></p> <p>The WASH R&amp;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.</p> <p>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&amp;D to use in their reports to eThekweni Municipality.</p>
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Jan 2022	<p>Pyrnexat Project - Space for Sanitation</p> <p>WOODCO Renewable Energy Ltd and WASH R&amp;D Centre</p> <p><b>Researcher</b></p> <p>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.</p> <p>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.</p>
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Feb 2018 – Mar 2021	<p>Non-Perennial Rivers Research Programme</p> <p>National Research Foundation (NRF) and South African Environmental Observation Network (SAEON), University of the Western Cape</p> <p><b>Lead Researcher</b></p> <p>The project aimed to understand the relationships between river flow, ecosystem characteristics and services provided by non-perennial rivers.</p> <p>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</p>
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Wiesdrift 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.

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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.

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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.

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**Publications**

Petrie, B., Allen, J. and Jagganath, T. (2023). *Preliminary Assessment of the Information Available and the Selection of a Specific Area in Zambia to Implement Technical Assistance*. OneWorld Sustainable Investments, UNEP CTCN Zambia (In Press).

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: [https://etd.uwc.ac.za/bitstream/handle/11394/8660/jagganath\\_m\\_nsc\\_2021.pdf?sequence=5&isAllowed=y](https://etd.uwc.ac.za/bitstream/handle/11394/8660/jagganath_m_nsc_2021.pdf?sequence=5&isAllowed=y)

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.