

## Curriculum Vitae: Jonathon Rawlins

<b>Nationality</b>	South African
<b>Education</b>	<p>MSc. Water Science, Policy and Management (with distinction) University of Oxford (2016-2017) United Kingdom</p> <ul style="list-style-type: none"> <li>• UK Commonwealth Scholarship: University of Oxford (2016/2017)</li> <li>• Environmental Change Institute Sustainability Leadership Certificate (2017)</li> </ul> <p>MSc. Environmental Economics (research dissertation) Rhodes University (2015-2016) South Africa</p> <p>BSc. (Hons). Environmental Water Management (with distinction) Rhodes University (2014) South Africa</p> <p>BSc. Majors: Environmental Science, Economics &amp; Geography (with distinction) Rhodes University (2011-2013) South Africa</p>
<b>Short Courses</b>	<p>International Water Law - University of Geneva (2018) <a href="https://goo.gl/CR7zk7">https://goo.gl/CR7zk7</a></p> <p>Water Resources Management and Policy - University of Geneva (2018) <a href="https://goo.gl/SKBD19">https://goo.gl/SKBD19</a></p> <p>Water: Addressing the Global Crisis (2019)* - SDG Academy <a href="https://goo.gl/UCtW5T">https://goo.gl/UCtW5T</a></p>
<b>Software Competency</b>	<ul style="list-style-type: none"> <li>• Microsoft Office Package</li> <li>• ArcGIS /QGIS</li> <li>• R</li> <li>• EDraw</li> </ul>
<b>Languages</b>	English (fluent), Afrikaans (working proficiency)
<b>Membership of professional bodies</b>	<ul style="list-style-type: none"> <li>• Occasional Reviewer for Journal of Sustainable Cities and Societies</li> <li>• Oxford Water Network</li> <li>• International Water Association</li> <li>• South African Young Water Professionals</li> <li>• Water Institute of Southern Africa</li> <li>• Adaptation Network</li> </ul>
<b>Employment record</b>	
September 2017 - Present	<p>Technical Advisor OneWorld Sustainable Investments Cape Town, South Africa</p>
February- May 2017	<p>Management Consultant The Student Consultancy University of Oxford United Kingdom</p>
2015- 2016	<p>Student Tutor and Sports Coach St Andrew's College Grahamstown, South Africa</p>



2014	Academic Tutor and Practical Demonstrator Rhodes University Grahamstown, South Africa
January 2013	Environmental Intern Environmental Resources Management (ERM) Cape Town, South Africa
2012	College House Sub-Warden Rhodes University Grahamstown, South Africa
2010	Wilderness Field Guide and Game Ranger Machampane Wilderness Camp Limpopo Transfrontier Park, Mozambique

### Relevant professional experience

January 2019 –  
Present

Ministry of National Development Planning and Pilot Programme for Climate Resilience (PPCR), Zambia.  
Developing Guidelines for Screening Climate Change in Sectoral Policies, Plans and Strategies

**Technical Advisor and Researcher**

Provide technical advisory and research support for the development of guidelines and tools for screening climate change in sectoral policies, plans and strategies. Undertaking a situational analysis on sector policies, plans and strategies to inform the development of screening guidelines and assessment tools. Focus group discussions and sector workshops will be undertaken to test and validate the tool and guidelines. A user guide and training manual will be developed to conduct a Training of Trainers workshop to train end-users to be able to further train people on how to apply the guidelines throughout Zambia.

November  
2018 - Present

Western Cape Government, South Africa  
Evaluation of the Impact and Implementation of the Western Cape Climate Change Response Strategy (WCCCRS)

**Technical Advisor and Researcher**

Provide technical advisory and research support for the evaluation of WCCCRS. Activities include the continuous co-development of a theory of change (ToC) and technical assessment framework, initially based on thorough literature and document reviews as well as a high-level benchmarking exercise. Key-informant interviews and focus group discussions will be facilitated to further co-develop the ToC, as well as providing data to evaluate the design and implementation of WCCCRS. Key technical contributions are focused on the water sector and how the response to climate change can be improved, noting the severity of the recent drought. Ultimately, a final co-developed and validated ToC will be developed to inform the future iteration of the strategy and the key entry points for building resilience in the Western Cape Province.

October 2018 –  
January 2019

Swiss Agency for Development and Cooperation (SDC)  
Water Diplomacy and Governance of Key Transboundary Hotspots – Salween Component

**Technical Advisor and Backstopping Researcher**

Determine and outline appropriate and suitable entry points for water cooperation in the Salween River Basin and advise SDC in its specific role in bringing stakeholders together and coordinating different approaches in accordance with the demands of the respective



national governments. Cross-examination of various water governance and management proposals for the Salween Basin to determine potential synergies, overlaps and antagonistic relationships. Review and advise on technical aspects of proposals to build cooperation in the basin. Assess key risks of development in the basin and associated costs of inaction. Stakeholder engagement assessment to advise SDC on their role in building cooperation through hydro-diplomacy.

April 2018 –  
present

French Development Agency (AFD) / City of Cape Town  
Climate Change Hazard, Vulnerability and Risk Assessment Study for the City of Cape Town

**Project Coordinator, Technical Advisor and Research Analyst**

The aim of this study is to assess the nature and spatial location of hazards, vulnerabilities, and risks in Cape Town, given current climate change projections, to enable the City to make decisions not only on new investments, but also on how it should potentially adjust existing projects to improve water and climate resilience. Activities include: desktop review, data analysis, participatory analysis and stakeholder engagement in workshops and interviews, cross-validation process, support development of GIS risk and vulnerability assessment, and identify and assess economic impact of adaptation options (with a focus on water resources management). Identification of priority actions and investment projects. Development of a climate investment plan. Presentation and validation of findings with project members from the City and stakeholders.

February 2018

– October 2018

Zambian Ministry of National Development Planning / World Bank  
Climate Change Risk and Vulnerability Assessment in Luapula, Muchinga, Northern and Western Provinces

**Project Coordinator, Technical Advisor and Research Analyst**

Socioeconomic assessment, surface and groundwater resource assessment and climate risk and vulnerability assessment in order to identify responsive and feasible investments in climate resilience, enhanced water resource management and improved disaster risk reduction. Conducted and provided technical advisory on desktop review, data analysis, participatory analysis and stakeholder engagement in workshops and interviews, cross-validation processes, GIS risk and vulnerability assessment, district risk profiles and opportunity assessments. Identification of priority actions and investment projects, technical risk and vulnerability assessment communication. Development of concept notes for prioritised actions based on district/provincial prioritisation and hotspot analysis. Coordination and facilitation of workshops for the various districts to review identified gaps. Development of a climate resilience training manual and undertaking of a Training of the Trainers workshop. Development of validated climate investment solutions. Presentation and validation of findings with stakeholders and client team.

January 2018 –

June 2018

Department of Planning, Monitoring & Evaluation, Government of South Africa; in partnership with Sustainable Energy Africa (SEA)  
Developing Models and Pathways for a Low-carbon Economy and Climate-resilient Society

**Scenarios Modeller and Technical Advisor**

Modelled numerous development scenarios using International Futures Model for Global Forecasting software. Models focused on hypothetical development pathways specific to low-carbon development priorities and improving climate change resilience, modelled scenarios include water, energy, agriculture, employment and other socio-economic indicators. The project will assist in giving effect to the proposals contained in the Chapter Five of South Africa's National Development Plan. The focus is on facilitated consensus-building processes which will be underpinned and backed up by conversation/demand



driven information/broad research and scenarios, as this evolves through the social partner dialogues.

September  
2017- January  
2018

Zambian National Climate Change Secretariat (NCCS) / World Bank  
Landscape Vulnerability Risk Assessment Baseline

**Project Coordinator, Technical Advisor and Research Analyst**

Conducted desktop research, data analysis, in depth stakeholder engagement, workshop facilitation, GIS support and overall project management and coordination. The project aimed to strengthen the adaptive capacity of rural communities to better respond to existing climate variability and the longer-term impacts of climate change in the Zambian Luapula, Northern and Muchinga Provinces. In association with Habitat INFO, OneWorld conducted a Risk and Vulnerability (R&V) baseline assessment that considers exposure, sensitivity and adaptive capacity dimensions. This model is developed around key water resource, biodiversity and agricultural vulnerabilities to provide administrative district level vulnerability hotspots. These outputs feed into the development of the decision-support tool, capacity building and priority adaption recommendations.

Zambian National Climate Change Secretariat (NCCS) / World Bank  
Landscape Vulnerability Decision Support Tool

**Project Coordinator, Technical Advisor and Research Analyst**

Conducted desktop research, data analysis, in depth stakeholder engagement, workshop facilitation and overall project management and coordination. The project aims to strengthen the adaptive capacity of rural communities to better respond to existing climate variability and the longer-term impacts of climate change in the Zambian Luapula, Northern and Muchinga Provinces. OneWorld developed a decision support tool for policy-makers and planners to assist with landscape level investments to decrease climate change vulnerability, with a particular focus on sustainable water resource and environmental management. Building off of the R&V baseline assessment, this project involves identifying priority policy and adaption options to reduce climate vulnerability, as well as strengthening the capacity of local and national level development planners to respond to climate change risks.

September  
2017 – August  
2018

Permanent Okavango River Basin Water Commission (OKACOM)  
Discussion Paper & Recommendations on the Permanent Okavango River Basin  
Agreement (Angola, Botswana, Namibia)

**Research Analyst and Backstopping**

With the objective of furthering transboundary water cooperation in the Cubango-Okavango River Basin (CORB), OKACOM commissioned a OneWorld team to review the 1994 Permanent Okavango River Basin Agreement, and produce a Discussion Paper with its findings. The review analysed the consistency of the Agreement in guiding the scope of work and extending transboundary water cooperation in the CORB. The review thus aimed to support and inform local, national and regional decision making in the CORB, within a transboundary legal framework. In 2018, OKACOM commissioned an update to the Discussion Paper to incorporate further thinking that evolved from the initial paper and provide strategic recommendations in terms of the Agreement, towards protection and development of the Basin's resources.

September-  
December 2017

ENSafrica / Zambezi Watercourse Commission (ZAMCOM)  
ZAMCOM Water Law Equivalence Assessment

**Research Analyst**

Conducted data analysis and review and desktop research related to water resource management and climate change laws and policies of riparian countries in the Zambezi



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River Basin (ZRB). To ensure equitable, fair and sustainable use of ZRB water resources, ZAMCOM requires best practice guidelines for achieving a harmonisation of the policies, legislation and agreements between the eight riparian countries. The project includes formulation of a model to assess the equivalence of key relevant national legislation, a legislation gap analysis and an options paper recommending potential measures for ZAMCOM.

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January 2014-  
September 2017

Dissertation Research

This process involved qualitative and quantitative analysis, facilitation of workshops, focus groups, interviews and discussions.

University of Oxford, School of Geography and the Environment

**MSc Water Science, Policy and Management Dissertation:**

The political economy of water reallocation: a case study of the Berg Water Management Area, South Africa.

Rhodes University, Department of Economics and Economic History

**MSc Environmental Economics Dissertation:**

Assessing the suitability of causal loop diagrams to assess the value chains of aquatic ecosystem services: a case study of the Baviaanskloof, South Africa

Rhodes University, Department of Economics and Economic History

**BScHons Environmental Water Management Dissertation:**

An investigation of the hydro-sediment dynamics of a tidal meander complex: Kariega Estuary, Eastern Cape, South Africa.

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## Selected Publications, Research Papers and Reports

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(Forthcoming) Rawlins, J. Political Economy of Water Reallocation in South Africa: Insights from the Western Cape Water Crisis. TBC.

(Forthcoming) Rawlins, J., Petrie, B., Gerhard, M. and Filipova, A. 2018. Towards Cooperative Transboundary Environmental Management in SADC: Politics and Harmonisation. TBC.

Garrick, D., Chautard, A. and Rawlins, J. 2019. Allocating Water. In: Water Science Management and Policy. John Wiley & Sons: London.

Petrie, B., Rawlins, J., Perkins, D., Lumbroso, D. and Chapman, A. 2018. Final Report: Climate Change Risk and Vulnerability Assessment in Luapula, Muchinga, Northern and Western Provinces. OneWorld Sustainable Investments. Cape Town, South Africa.

Petrie, B., Rawlins, J., Perkins, D., Wroblewski, T., Kalaba, F. and Lumbroso, D. 2018. Climate Change Risk and Vulnerability Assessment in Luapula, Muchinga, Northern and Western Provinces: Training Manual. OneWorld Sustainable Investments. Cape Town, South Africa.

Rawlins, J., De Lange, W. and Fraser, G. 2018. An ecosystem service value chain analysis framework: a conceptual paper. *Ecological Economics*, 147:84-95.

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Petrie, B., Rawlins, J., Tsilik, P., Chapman, A. and Kalaba, J. 2018. Landscape Vulnerability Decision Support Framework. Transforming Landscapes for Resilience and Development in Northern and Southern Zambia (TRALARD-Zam). OneWorld Sustainable Investments. Cape Town, South Africa.

Rawlins, J. and Garrick, D. 2017. The Political Economy of Water Reallocation: A case study of the Berg Water Management Area, South Africa. MSc Thesis: School of Geography and the Environment, The University of Oxford, United Kingdom.

Rawlins, J. 2016. Exploring the suitability of causal loop diagrams to assess the value chains of aquatic ecosystem services: a case study of the Baviaanskloof, South Africa. MSc Thesis: Department of Economics and Economic History, Rhodes University, South Africa.

Rawlins, J. 2014. An investigation of the tidal asymmetry and hydro-sediment dynamics of a tidal meander complex: Kariega Estuary, Eastern Cape, South Africa. BSc Honours Thesis: Department of Geography, Rhodes University.

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## Conference Presentations and Attendance

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Rawlins, J., Petrie, B., Gerhard, M. and Filipova, A. 2018. Towards Cooperative Transboundary Environmental Management in SADC: Politics and Harmonisation. Political Drivers for Sustainable Ecosystems Seminar. Co-convended by SIWI, SIPRI, World Bank and PSI. World Water Week 2018, Stockholm, Sweden.

Discussion Panellist: Share, Conserve, Develop! How do we do it all in Transboundary Basins? Co-convended by IUCN, IWMI, CI, Forest Trends and WfWP. World Water Week 2018, Stockholm, Sweden.

Adaptation Futures: 5th International Climate Change Adaptation Conference. Cape Town, South Africa.

Global Water Summit 2016. The Nature Conservancy. Columbia University, New York, USA.

Rawlins, J. De Lange, W. and Fraser, G. 2015. Exploring the suitability of causal loop diagrams to assess the value chains of aquatic ecosystem services: a case study of the Baviaanskloof, South Africa. The 8th ESP World Conference, Stellenbosch, South Africa.

Rawlins, J. 2014. An investigation of the hydro-sediment dynamics of a tidal meander complex: Kariega Estuary, Eastern Cape, South Africa. Society of South African Geographers 10th Biennial Conference, East London, South Africa.

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