

A. PERSONAL INFORMATION

Name Christine Akinyi Onyango
Contacts Mobile/cellphone:
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E-mail :**akinyce@yahoo.com**
Date and place of birth 8th April 1984, SIA YA, KENYA
Nationality Kenyan
Marital status Married
Gender Female

B. PROFILE

Christine Akinyi Onyango is a curious, determined, enthusiastic and dependable scientist in pursuit of her dreams to be an achieved scientist. As a scientist, she has always been fascinated by nature and has undertaken research on the environment as well as the ecology of aquatic ecosystems. Her career objective is to get to learn more in the growing scientific research sector and to contribute to the development of knowledge.

C. RESEARCH INTERESTS

Aquatic ecosystems ecology, marine ecology and biology, conservation and management, climate change impacts on aquatic ecosystems, mitigation, and adaptation, use of molecular tools in unravelling and addressing environmental concerns.

D. FORMAL EDUCATION

COLLEGE QUALIFICATION

UNIVERSITY OF KWAZULU-NATAL, WESTVILLE CAMPUS, DURBAN, SOUTH AFRICA

Degree : PhD in Biological Sciences, October 2020

Link: <https://e-certification.ukzn.ac.za/Documents>

Title of thesis : **Insights into the transcriptomic mechanisms underlying responses to heat stress and bleaching in two coral holobionts from Park Rynie, east coast South Africa**

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY, KAKAMEGA, KENYA

Degree : Master of Science in Environmental Biology, December 2012
Title of Thesis : **Distribution of Macro-Invertebrates in Relation to Physicochemical Gradients in Omubhira and Lurambi Streams, Western Kenya.**

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY, KAKAMEGA, KENYA

Degree : Bachelor of Education Science (Biology Major, Chemistry)
1st class honors July 2008

PRIMARY AND SECONDARY EDUCATION (KENYA)

LWAK GIRLS HIGH SCHOOL : (1998-2001)
: Kenya Certificate of Secondary Education (K.C.S.E)
: Mean Grade of A
AWELO PRIMARY SCHOOL : (1990-1997)
: Kenya Certificate of Primary Education (K.C.P.E)
: Mean Grade of A

E. EMPLOYMENT RECORD

Employer **BUNGOMA TOWN HIGH SCHOOL, BUNGOMA, KENYA**
Date of appointment August 2007
Post at employment Teacher of Biology and Chemistry
Responsibilities Instructing students in Biology and Chemistry, Conducting laboratory Biology/Chemistry practicals
Employer **MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY, KAKAMEGA, KENYA**
Date of appointment September 2008 to February 2013
Post at employment Graduate Assistant in the Department of Biological Sciences
Responsibilities Conducting tutorials, attending training conferences, workshops and seminars, engaging in research activities.
Employer **MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY, KAKAMEGA, KENYA**

Date of appointment	February 2013 to March 2021
Post at employment	Assistant Lecturer in the Department of Biological Sciences
Responsibilities	Teaching, conducting research, publishing, supervising and mentoring students
Other appointments	Departmental Examinations Co-coordinator
Date of appointment	January 2015 to date
Responsibilities	Organizing and moderation of examination papers and handling exam related issues from the students of the Department of Biological Sciences.
Employer	BHEJANE NATURE TRAINING, HLUHLUWE, SOUTH AFRICA
Date of appointment	October 2017 to April 2018
Post at employment	Trainer in Marine Biology
Responsibilities	Preparing training materials, lecturing and conducting field studies in Marine Biology
Employer	UNIVERSITY OF KWA-ZULU NATAL, WESTVILLE CAMPUS
Date of appointment	September 2017 to September 2019
Post at employment	Teaching assistant and demonstrator
Responsibilities	Coordinate demonstrators and practical teaching; provide guidance and assistance to students with laboratory experiments, assessing the students' progress on given tasks.
Employer	MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY
Date of appointment	March 2021 to date
Post at employment	Lecturer in the Department of Biological Sciences
Responsibilities	Teaching, conducting research and publishing, supervising and mentoring students, community outreach activities.

F.

HONORS AND AWARDS

2009 Recipient Masinde Muliro University of Science and Technology (MMUST) Partial Scholarship to pursue master's in environmental biology

2015 Recipient IPCC (International Panel on Climate Change) Research grant on the impacts of Global warming.

2016 Recipient The best research group during the 2nd MMUST Awards ceremony

2017 Recipient Masinde Muliro University of Science and Technology (MMUST) Partial Scholarship to pursue PhD in Biological Sciences (Marine Biology) in the University of KwaZulu-Natal (UKZN), South Africa

2018 Recipient Gay Langmuir Bursary for research on wildlife conservation.

2020 Recipient GlobalSeaweedSTAR Travel Fund to attend the 4th International School in Marine Biology in Namibia

G.

WORKSHOPS, TRAININGS AND SEMINARS

DATES

TRAINING

Nov 2009

Workshop on GIS technologies for biodiversity conservation Nairobi
KENYA

April 2010

Seminar on Education for Sustainable Development: Innovations, Opportunities and Challenges in the 21st Century Kakamega KENYA

May 2010

Workshop on e-resources, Research4life kakamega KENYA

June 2011

International Conference on Tropical Forest Resources, Kakamega

**February 2012-September
2012**

Cultural exchange (Research), University of Western Ontario, London,
CANADA

October 2018

Workshop on impacts of climate change on marine organisms, Mombasa
KENYA

July 2019

Eleventh Western Indian Ocean Marine Science Association (WIOMSA)
Scientific Symposium in Reduit, MAURITIUS

July 2019

SEAmester IV South Africa's Class Afloat program 2019, SOUTH AFRICA

January 2020

The 4th International School in Marine Biology, Fondation Daniel Jouvance/
Sorbonne Université/ University of Namibia, NAMIBIA

January 2022

WIOMSA Plastics material and processes training workshop conducted
online by African waste Academy

H.

PROFESSIONAL BODIES MEMBERSHIP

ICRS (International Coral Reef Society)

WIOMSA (Western Indian Ocean Marine Association)

ESEA (Ecological Society of East Africa)

I. CONFERENCE PRESENTATIONS

*Onyango CA, MacDonald AHH, Glassom D. 2018. Climate change impacts on two hard coral holobionts of varying resilience in the KwaZulu-Natal coast, South Africa. Paper presented to the Western Indian Ocean Marine Sciences Association (WIOMSA) Workshop on impacts of climate change on marine organisms: Adaptation or Extinction? 8th to 10th October, Mombasa, Kenya. Presented by CA Onyango.

*Onyango CA, MacDonald AHH, Glassom D. 2018. Transcriptomic responses to heat stress and bleaching in two coral holobionts of varying resilience from Park Rynie, KwaZulu-Natal coast, South Africa. Paper presented to The Conservation Symposium, 5th to 9th November, St. Ives, KwaZulu-Natal, South Africa. Presented by CA Onyango.

*Onyango CA, MacDonald AHH, Glassom D. 2019. A biochemical index to assess response to heat stress and bleaching in two coral holobionts of varying resilience in the KwaZulu-Natal coast, Durban. Paper presented to Eleventh Western Indian Ocean Marine Science Association (WIOMSA) Scientific Symposium, 1st to 6th July, in Reduit, Mauritius. Presented by CA Onyango.

*Onyango CA, MacDonald AHH, Glassom D. 2019. *De novo* assembly of a non-model *Anomastrea irregularis* holobiont transcriptome and differential expression analysis of its responses to thermal stress. Paper presented to the College of Agriculture, Engineering and Science Postgraduate Research & Innovation Symposium (PRIS) 17th October, 2019, University of KwaZulu-Natal, Westville Campus, South Africa. Presented by CA Onyango.

J. PUBLICATIONS

Joseph P Onyango Gweyi, Peter Akwee, **Christine Onyango** and Tesfamaria Tsehaye (2011). Genotypic responses of cowpea (*vigna anguiculata*) to sub-tropical phosphorous supply in Alfisols of Western Kenya: A comparative analysis of legumes. Journal of Agricultural Sciences. Vol 1(2): 1-8

Akinyi C. O, Agevi H, Tsingalia H.M, Cords M and Schaab G. Density estimation by spatial extrapolation of some diurnal monkey populations in the Kakamega forest, Kenya. In: Conference proceedings of International Conference on Tropical Forest Resources, Kakamega, June 2011.

Onyango C A, Lungayia H, Shivoga W and Wepukulu RS (2013) Assessment of water quality by use of macro-invertebrates in Omubhira and Lurambi streams: Implications for Management and Conservation. East African Journal of Engineering, Science and Technology. Vol 1. No.2. ISSN-2219-8598.

Hollander J, Linden O, Gudka M, Duncan M I, Obura D, James N, Bhagooli R, Nyanapah J, **Onyango C**, Duvane J, Louis Y, Ngotho D, Mvungi E, Mamboya F, George R, Hamad H, Issa Hamisi M, Adeleke B, Ngoa E, Harlay J, Oduor N, Fondo E, Wambiji N, Raharinaivo L, Winkler A, Okemwa G, Karisa J, Madi Bamdou M, Mtaki K, Randrianandrasana J. (2020) Marine Organisms Responses to Climate Change Effects in the Western Indian Ocean. Journal of Indian Ocean Rim Studies, Volume 3, Issue 1.

Onyango CA, MacDonald AHH, Glassom D. (2021) *De novo* assembly of the transcriptome of scleractinian coral, *Anomastrea irregularis* and analyses of its response to thermal stress. Molecular Biology Reports. 48: 2083–2092. <https://doi.org/10.1007/s11033-021-06184-5i>

HOBBIES

Undertaking excursions, reading, watching nature programmes and movies

REFEREES

1. Professor William Aino Shivoga
Masinde Muliro University of Science and Technology
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2. Dr. David Glassom

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3. Dr. Angus MacDonald
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