Dr. Nicholas Outa

PhD. in Fisheries and Aquaculture, Maseno University, Kenya

+254 723 052 865
nichouta@gmail.com

Links

About me

LinkedIn

Google Scholar

OrCiD

CURRICULUM VITAE

Bio data

Nationality: Kenyan

Date of Birth: 16th January 1986

Profile

I hold a PhD in Fisheries and Aquaculture at Maseno University, supported by more than a decade of progressive academic, research, and field-based experience in aquatic ecosystems and food systems. My professional portfolio includes participating in fisheries and aquaculture research assignments, coordinating multi-stakeholder projects, and training smallholder farmers in climate-smart food production systems. I bring a strong commitment to research integrity, analytical rigor, stakeholder engagement, and results-driven leadership. These principles underpin my work in teaching, research coordination, community outreach, and policy-relevant science.

Education

PhD in Fisheries and Aquaculture, Maseno University, Kenya

JANUARY 2020 — 2025

- PhD in Fisheries and Aquaculture.
- Research title: Evaluation of the Yields, Nutrient Utilisation, and Water-Use Efficiency of a Nutrient Film Technique (NFT) Aquaponic System

MSc. Limnology and Wetland Management, UNESCO-IHE Institute for Water Education-Delft, University of Natural Resources and Life Sciences, Vienna (BOKU) & Egerton University

SEPTEMBER 2012 — JUNE 2014

- Master of Science in Limnology and Wetland Management.
- MSc. thesis title: Biological Aspects of Nile Tilapia in Lake Naivasha, Kenya.

BSc. Applied Aquatic Science, Egerton University, Kenya

AUGUST 2006 — OCTOBER 2010

I graduated with a Second-Class Honors (Upper Division).

Kenya Certificate of Secondary Education (KCSE), Kisumu Boys High School, Kisumu

MARCH 2001 — DECEMBER 2004

I obtained a B+

Kenya Certificate of Primary Education (KCPE), Wang'bith Primary School, Siaya

JANUARY 1993 — DECEMBER 2000

I scored 534 marks out of the possible 700

Employment History

Lecturer at Maseno University

AUGUST 2026 — TO DATE

- I lecture in the Department of Animal and Fisheries Sciences.
- I supervise MSc and PhD students
- I also participate in research projects and create publication and research output communication plans.

Part-time Lecturer at Maseno University, Kisumu

SEPTEMBER 2016 — AUGUST 2026

- I lectured in the Department of Animal and Fisheries Sciences, where I taught, evaluated, and mentor students in Fisheries and Aquaculture courses.
- I also participated in research projects and created publication and research output communication plans.

Part-time Lecturer at Kisii University, Kisii

JULY 2018 — FEBRUARY 2020

- I lectured in the Fisheries and Aquatic Sciences Department, where I taught, evaluated and mentored students.
- As the lab team leader, I conducted research and published research articles.

Head of Research and Mentorship at Centre for Research and Technology Development

JULY 2016 — FEBRUARY 2020

- I identified thematic areas of interest, recruited potential interns, and created funded project funding proposals.
- I supervised and mentored interns and reported to the director on their progress.

Research Fellow at Centre for Research and Technology Development (RESTECH)

APRIL 2014 — APRIL 2017

- I collected, analyzed and interpreted data on the ecological and biological aspects of various fish species in Lake Victoria and the rivers surrounding the lake
- I developed and tested various fish culture systems, with a particular emphasis on the aquaculture potential of various fish species
- I was trained in Nagasaki University, Japan, on live food culture and use in aquaculture, as well as otolith analysis, as part of the project for six months.
- Based on the data I collected, I published scientific papers in peer-reviewed journals.

Research Assistant at Victoria Institute for Research on Environment and Development (VIRED) International

OCTOBER 2010 — OCTOBER 2012

- I assisted the PhD student in collecting and analyzing samples and data in the field and laboratory as part of the Ecology of Livelihoods in African Papyrus Wetlands (ECOLIVE) Project.
- I collected and analyzed water quality, plant diversity, and decomposition data in the Nyando wetland and around Lake Victoria.

Affiliated Projects and Field Experiences

Potentials of Agroecological practices in East Africa with a focus on Circular water-energy-nutrient systems (PrAEctiCe Project)

NOVEMBER 2022 – PRESENT

I participate in running project activities by tracking the ongoing and upcoming project meetings and activities, and deliverables and informing the team through a centralized system (TRELLO)

BLUE-CYCLING - Integrated Aquaculture and Agriculture for Resource-efficient Food Production, Maseno

JANUARY 2022 —JUNE 2025

As a PhD student attached to the project, I conducted research and other activities related to the project. I also mentored MSc students within the project.

Scientific Communications coordinator for the Kenya Climate-Smart Agriculture Project (KCSAP), Siaya, Kakamega and Busia Counties

FEBRUARY 2020 — DECEMBER 2022

I participated in KCSAP research and data collection activities aimed at validating Technologies, Innovations, and Management Practices (TIMPs) in the Aquaculture Value Chain.

I participated in the Development of Business Development Services (BDS) for smallholder farmers in Siaya and Busia Counties

Optimizing Artemia Production Technology for Sustainable Aquaculture Development (APTSAD) project

FEBRUARY 2021 — DECEMBER 2022

The WIOMSA-funded project aims to improve coastal communities' livelihoods by optimizing Artemia resource production for local aquaculture initiatives.

I participated in the project research and scientific communications activities, including the Development of Business Development Services (BDS) and Curricula and Modules for the mariculture farmers and other value chain actors in Kilifi County

Trainer at the Open Peer Reviewers in Africa Project

MARCH 2022 — JUNE 2022

In the project, I assisted in training and mentoring early-career researchers in scientific peer review, scientific research ethics, and Open Science in the African context.

Other courses and Trainings

Training on Scientific Communication and Publishing, Training Center in Communication (TCC-Africa)

SEPTEMBER 2018 — OCTOBER 2018

Training on the use of fish otoliths and scales in fish age determination and culture of live food in aquaculture, Nagasaki University, Japan

MARCH 2015 — JUNE 2015

Training on computer application packages, Ushindi Computer College

FEBRUARY 2009 — MAY 2009

Training on counseling skills and theories, Egerton University

MARCH 2008 — APRIL 2008

Scientific Writing and Publication Experience

Academic editor for PLOS One

JANUARY 2021 — PRESENT

- I assist in editorial screening, select reviewers, evaluate manuscripts, and issue editorial decisions under the Aquatic Foods Section.
- I ensure compliance with journal standards, ethics, and scientific rigour.

Peer Reviewer for various Scientific Journals

JANUARY 2017 — PRESENT

I review and make recommendations on scientific research articles submitted to various journals for publication

- Aquaculture, Fish and Fisheries (Wiley)
- Lakes and Reservoirs
- African Journal of Food, Agriculture, Nutrition and Development (AJFAND)
- Aquaculture Reports (Elsevier)
- Frontiers in Aquatic Food Systems (Frontiers)

Scientific Publications

Outa, Nicholas, Erick Ogello, and George K'Otuto. 2025. "Nutrient Film Technique (NFT) Aquaponics Enhances the Productivity of Fish and Crops: Trials on Nile Tilapia, African Catfish, Lettuce, Spinach and Basil." *Aquaculture, Fish and Fisheries* 5 (4): e70089.

Outa, Nicholas, Erick Ogello, and Caroline Wambui. 2024. "Exploring the Potential of Aquaponics Systems in Advancing Food Security in Kenya: A Scoping Review.

Outa, N O. 2021. Freshwater Integrated Multitrophic Aquaculture (FIMTA) Technology in Lake Victoria." *AfricArXiv Preprint*, https://doi.org/10.14293/111.000/000016.v1.

Outa N, N Kitaka, and J M Njiru. 2014a. "Length-Weight Relationship, Condition Factor, Length at First Maturity and Sex Ratio of Nile Tilapia, Oreochromis Niloticus in Lake Naivasha, Kenya." *International Journal of Fisheries and Aquatic Studies* 2 (2): 67–72.

Outa N, N Kitaka, and J M Njiru. 2014b. "Some Aspects of the Feeding Ecology of Nile Tilapia, Oreochromis Niloticus in Lake Naivasha, Kenya." *International Journal of Fisheries and Aquatic Studies* 2 (2): 1–8.

Outa, Nicholas, Dan Mungai, and James Last A Keyombe. 2019. "The Impacts of Introduced Species on Lake Ecosystems: A Case of Lakes Victoria and Naivasha, Kenya." Center for Open Science. https://doi.org/10.31730/osf.io/b5nyt.

Outa, Nicholas O, Edwine Yongo, and Jameslast A Keyombe. 2017. "Ontogenic Changes in Prey Ingested by Nile Perch (*Lates niloticus*) Caught in Nyanza Gulf of Lake Victoria, Kenya." *Lakes & Reservoirs: Research & Management* 22 (1): 43–47.

Outa, Nicholas, and Erick Ochieng Ogello. 2019. "Culture Trials of Nile Perch Juveniles in Cages and Earthen Ponds." *World Aquaculture Society Magazine*. https://edocs.maseno.ac.ke/handle/123456789/1535.

Outa, Nicholas, Debra Okeh, Godwin Abakari, Franklin Buh, Adeyinka Odebode, Grace Akinyi, Lenford Kasungu, Qudus Lawal, Rudo Chiramba, and Nasteha Ahmed. 2025. "Optimizing Social Media for Science Communication: Engagement Strategies in the African Context." *OSF*. OSF.

Outa, Nicholas, Debra Okeh, Godwin Abakari, Aruwa Joshua, Qudus Lawal, Rudo Chiramba, Oluuwaseun Amoo, et al. 2025. "Scientific Communication in the Social Media Era: A Critical Review of Opportunities, Challenges, and Ethical Dilemmas in Digital Knowledge Dissemination." *OSF*.

Outa, Nicholas O, Erick Ogello, Walter Okinyi, Dan Mungai, and Jacob Iteba. 2022. "Ecological Implications of Rastrineobola Argentea (Omena) Fishery: A Rapid Assessment of Bycatch Diversity at Dunga Beach, Lake Victoria, Kenya." Center for Open Science. https://doi.org/10.31730/osf.io/xc75e.

Outa, Nicholas O, Edwine Omollo Yongo, James Last A. Keyombe, Erick O. Ogello, and David Namwaya Wanjala. 2020. "A Review on the Status of Some Major Fish Species in Lake Victoria and Possible Conservation Strategies." *Lakes & Reservoirs: Research & Management* 25 (January):105–11. https://doi.org/10.1111/lre.12299.

Outa, Nicholas, and Edna Waithaka. 2020. "Fish Breeding Areas: Is This the Solution to Increasing Fisheries Productivity of Lake Naivasha, Kenya?" Center for Open Science.

https://doi.org/10.31730/osf.io/x5tgf.

Ogello, Erick, Harun Ogindo, **Nicholas Outa**, Mavindu Muthoka, David Pokupec, Andreja Borec, Benjamin Ombok, et al. 2025. “A Synthesis of Agroecology Indicator Frameworks and Application for East Africa.” CABI Agriculture and Bioscience 6 (1): 66.

Ogello, Erick, **Nicholas Outa,** Mavindu Muthoka, Fredrick Juma, and Jan Hoinkis. 2025. “Optimizing Black Soldier Fly (Hermetia Illucens) Production: Effects of Substrate Variation on Biomass, Nutritional Quality, Hatchability, Fecundity, and Frass Quality.” Frontiers in Sustainable Food Systems 9:1621034.

Aera, C N, K E Migiro, E O Ogello, C M Githukia, A Yasindi, **N Outa**, and J M Munguti. 2014. “Length–Weight Relationship and Condition Factor of Common Carp, Cyprinus Carpio in Lake Naivasha, Kenya.” International Journal of Current Research 6 (9): 8286–92.

Corneille, Olivier, Jo Havemann, Emma L Henderson, Hans IJzerman, Ian Hussey, Jean-Jacques Orban de Xivry, Lee Jussim, Nicholas P Holmes, Artur Pilacinski, **Nicholas Outa**, and Brice Beffara. 2023. “Beware ‘Persuasive Communication Devices’ When Writing and Reading Scientific Articles.” ELife 12:e88654.

Daniel, M, O Argwings, J O Omweno, **N O Outa**, and J M Munguti. 2023. “Current Fish Feed Status and Development of New Feeding Technologies for Aquaculture Growth and Development in Kenya: Rapid Review.” J Aquac Fisheries 7 (61):

Jonathan, Munguti, O Iteba Jacob, **Outa Nicholas**, Kirimi James, Mungai Daniel, Kyule Domitila, O Kevin, et al. 2022. “Impacts of Covid-19 Pandemic and Adaptive Strategies to Build Resilience in the Kenyan Aquaculture Sector.” Open Science Framework 8 (1): 19–32. https://doi.org/10.14293/111.000/000048.v1.

Kembenya, Elijah M, Helen S Marcial, **Nicholas Outa,** Yoshitaka Sakakura, and Atsushi Hagiwara. 2017. “Captive Breeding of Threatened African Carp, *Labeo victorianus*, of Lake Victoria.” Journal of the World Aquaculture Society 48 (6): 955–62. https://doi.org/10.1111/jwas.12328.

Keyombe, James Last A, Obiero Kevin, Edna Waithaka, **Outa Nicholas**, Donde Oscar, and Domitila N Kyule. 2020. “Some Aspects of Fish Growth in Redbelly Tilapia (Coptodon Zilli) and Largemouth Bass (Micropterus Salmoides) in Lake Naivasha, Kenya.”

Kohrs, Friederike E, Vartan Kazezian, Robin K Bagley, **Nicholas Outa**, Matthieu P Boisgontier, Samuel Brod, Clarissa F D Carneiro, Maria Isabel Casas. 2026. “Collaborating With Early Career Researchers to Enhance the Future of Scholarly Publication: A Guide for Publishers.” Learned Publishing 39 (1): e2028.

Kyule, D N, S W Mburu, J M Munguti, K O Obiero, J O Abwao, D Ndegwa, **N Outa**, and E Ogello. 2023. “Food Safety Knowledge, Attitudes and Practices of Fish Handlers in Kirinyaga County Markets, Kenya.” African Journal of Food, Agriculture, Nutrition & Development 23 (10).

Kyule, Domitila, **Nicholas Outa**, Jacob Iteba, Erick Ogello, Jonathan Munguti, Kevin Obiero, Elick Otachi, and Anastasia Muia. 2024. “Diversity and Abundance of Some Microbial Communities in Kenya's Rift Valley Lakes Nakuru and Bogoria Before the 2019-2020 Long Rains.” Journal of Aquatic Science 7 (1): 9–18. https://doi.org/10.12691/jas-7-1-2.

Mboya, Jimmy Brian, Kevin Odhiambo Obiero, Maureen Jepkorir Cheserek, Kevin Okoth Ouko, Erick Ochieng Ogello, **Nicholas Otieno Outa**, Elizabeth Akinyi Nyauchi, Domitila Ndinda Kyule, and Jonathan Mbonge Munguti. 2023. “Factors Influencing Farmed Fish Traders’ Intention to Use Improved Fish Post-Harvest Technologies

in Kenya: Application of Technology Acceptance Model." Fisheries and Aquatic Sciences 26 (2): 105–16.

Mungai, Dan, **Nicholas Outa,** Paul Obama, Fredrick Ondemo, and Erick Ochieng Ogello. 2019. "The Status of Research on Lake Victoria Fisheries: Historical and Current Data on Fisheries and the Lake Environment." https://lens.org/151-509-706-431-177.

Munguti, Dr Jonathan Mbonge, Kevin Obiero, Jacob Odeke Iteba, James Kirimi, Domitila Ndinda Kyule, Paul Sagwe Orina, Cecilia Muthoni Githukia, **Nicholas Outa**, Erick Ochieng Ogello, and Jimmy Brian Mboya. 2023. "Role of Multilateral Development Organizations, Public and Private Investments in Aquaculture Subsector in Kenya." Frontiers in Sustainable Food Systems 7:1208918.

Munguti, Jonathan, Jacob O Iteba, **Nicholas Outa,** James G Kirimi, Daniel Mungai, Domitila Kyule, Kevin Obiero, and Erick O Ogello. 2022. "Reviewing the Impacts of COVID-19 Pandemic on the Kenyan Aquaculture Sector and Future Adaptive Strategies." Journal of Agricultural Science 15 (1): 70.

Munguti, Jonathan, Jacob Iteba, **Nicholas Outa,** James Kirimi, Daniel Mungai, Domitila Kyule, Kevin Obiero, and Erick Ogello. 2021. "Impacts of Covid-19 Pandemic and Adaptive Strategies to Build Resilience in the Kenyan Aquaculture." Framework 8 (1): 19–32.

Munguti, Jonathan M, Rita Nairuti, Jacob O Iteba, **Nicholas Outa**, Kevin O Obiero, Domitila Kyule, Mary A Opiyo, Jacob Abwao. 2022. "Nile Tilapia (*Oreochromis niloticus*) Culture in Kenya: Emerging Production Technologies and Socio-Economic Impacts on Local Livelihoods." Aquaculture, Fish and Fisheries 2 (4): 265–76.

Munguti, Jonathan, **Nicholas Outa**, Francis Wekesa, Isaac Osuga, Mercy Kariuki, Rodrigue Yossa, Daniel Mungai, and Domitila Kyule. 2024. "Utilization of Black Soldier Fly (Hermetia Illucens) Larvae as a Potential Substitute for Fish Meal in the Production of Nile Tilapia (Oreochromis Niloticus L.)." Sustainable Agriculture Research 13 (1).

Muthoka, Mavindu, Erick O Ogello, **Nicholas Outa**, Kevin O Ouko, Kevin O Obiero, Jimmy B Mboya, and Bramwel O Mukaburu. 2023. "Threats to Aquatic Biodiversity and Possible Management Strategies in Lake Victoria." Aquaculture, Fish and Fisheries.

Muthoka, Mavindu, Kevin Okoth Ouko, Jimmy Brian Mboya, Merceline Ndinda Ndambuki, **Nicholas Outa**, Erick Ogello, Kevin Obiero, Robert John Ogola, Dick Chune Midamba, and Lucy Njogu. 2024. "Socio-Economic Impacts of Climate Change and Adaptation Actions among Smallholder Fish Farmers in Sub-Saharan Africa." Aquaculture, Fish and Fisheries 4 (3): e182.

Mziri, Venny, and **Nicholas Outa**. 2022. "Occurrence and Prevalence of Fish Parasites and the Interaction with Water Quality Parameters in Selected Small Water Bodies in Western Kenya." Center for Open Science. https://doi.org/10.31730/osf.io/kteh6.

Obiero, Kevin Odhiambo, Jimmy Brian Mboya, Kevin Okoth Ouko, Elijah Migiro Kembenya, Elizabeth Akinyi Nyauchi, Jonathan Mbonge Munguti, **Nicholas Outa**, and Cecilia Muthoni Githukia. 2023. "The Role of Indigenous Knowledge in Fisheries Resource Management for Aquaculture Development: A Case Study of the Kenyan Lake Victoria Region." Aquaculture, Fish and Fisheries. https://doi.org/10.1002/aff2.101.

Odende, Timothy, Erick O Ogello, Jacob O Iteba, Henrick Owori, **Nicholas Outa,** Kevin O Obiero, Jonathan M Munguti, Domitila N Kyule, Shadrack Kimani, and Moses M Osia. 2022. "Promoting Sustainable Smallholder Aquaculture Productivity through Landscape and Seascape Aquapark Models: A Case Study of Busia County, Kenya."

Frontiers in Sustainable Food Systems 6:898044.

Ogello, Erick, Jeniffer Kinga, Janet Mwanzia, **Nicholas Outa**, and Muthoka Mavindu. 2024. “Reviewing the Status of Turtles in Kenyan Aquatic Ecosystems: Threats and Current Conservation Efforts.” Zenodo.

Ogello, Erick, Mavindu Muthoka, and **Nicholas Outa**. 2024. “Exploring Regenerative Aquaculture Initiatives for Climate-Resilient Food Production: Harnessing Synergies between Technology and Agroecology.” Aquaculture Journal 4 (4): 324–44.

Ogello, Erick O, Mwaruwa M Mbodze, **Nicholas O Outa**, Migeni Z Ajode, and Wycliffe Ojwando. 2024. “Characterizing Anthropogenic Litter Pollutants in African Freshwater Ecosystems: A Case Study of Dunga Beach in Lake Victoria, Kenya.” Lakes \& Reservoirs: Research \& Management 29 (1): e12454.

Ogello, Erick, **Nicholas Outa,** Bramwel Mukaburu, and Mavindu Muthoka. 2023. “Biofloc and Green Water Condition Improves Reproductive Traits and Fatty Acid Composition of Artemia Franciscana Cultured under Limited Algal Conditions.” Aquaculture, Fish and Fisheries 3 (1): 61–70.

Ogello, Erick O, **Nicholas O Outa**, Kevin O Obiero, Domitila N Kyule, and Jonathan M Munguti. 2021. “The Prospects of Biofloc Technology (BFT) for Sustainable Aquaculture Development.” Scientific African 14:e01053.

Ogello, Erick Ochieng, **Nicholas Outa**, and Kizito Ouma. 2021. “Socio-Economic Implications of Imported Frozen Tilapia on the Local Fish Production and Value Chain Linkages: Case of Kisumu County, Kenya.” Sciences 3 (411): 87–91. https://doi.org/10.14293/111.000/000018.v1.

Ogello, Erick, **Nicholas Outa**. 2022. “Socio-Economic Consequences of Imported Frozen Tilapia in the Kenyan Aquaculture Value Chain: Strategies for Optimizing Local Unexploited Potential.” ScienceOpen. https://doi.org/10.14293/111.000/000018.v2.

Ogello, Erick, Lisa Schindler, Chin Yee Chan, Nhuong Tran, Kevin Odhiambo Obiero, **Nicholas Outa**, Mavindu Muthoka, Domitila Kyule, and Jenniffer Atieno. 2024. “Exploring Future Scenarios for Advancing Low Emission Development in Kenyan Aquatic Food Systems.”

Ombiro, Omweno Job, Orina Paul Sawe, **Nicholas Outa** and Getabu Albert. 2020. “Growth and Aquaculture Potential of Tilapia Jipe, *Oreochromis jipe* and Nile Tilapia, *Oreochromis niloticus*.” International Journal of Fisheries and Aquatic Studies 8 (3): 395–99.

Otachi, Elick O, Domitila Kyule, Jacob Abwao, Jacob Iteba, Venny Mziri, **Nicholas Outa**, Erick Ogello, Kevin Obiero, and Jonathan Munguti. 2022. “Parasitic Loads in the Genetically Improved (F7) Nile Tilapia Oreochromis Niloticus (L.) Cultured in Fish Farms in Busia and Siaya Counties, Kenya: Indicators of Increased Resistance and Efficiencies of Synergistic Technologies Adoptions.” Research Square Platform LLC. https://doi.org/10.21203/rs.3.rs-1983335/v1.

Otieno, Dennis, Hilda Nyaboke, Chrisphine Sangara Nyamweya, Cyprian Ogombe Odoli, Christopher Mulanda Aura, and **Nicholas O Outa**. 2021. “Water Hyacinth (Eichhornia Crassipes) Infestation Cycle and Interactions with Nutrients and Aquatic Biota in Winam Gulf (Kenya), Lake Victoria.” Lakes & Reservoirs: Science, Policy and Management for Sustainable Use 27 (1). https://doi.org/10.1111/lre.12391.

Rongoei, P J K, and N O Outa. 2016. “Cyperus Papyrus L. Growth Rate and Mortality in Relation to Water Quantity, Quality and Soil Characteristics in Nyando Floodplain Wetland, Kenya.” Open Journal of Ecology 06 (12): 714–35.

https://doi.org/10.4236/oje.2016.612065.

Tran, Nhuong, Erick Ogello, **N O Outa**, Mavindu Muthoka, and Yan Hoong. 2023. "Promising Aquaculture Technologies and Innovations for Transforming Food Systems Toward Low Emission Pathways in Kenya: A Review." WorldFish

Waithaka, E, P Boera, B Obegi, A Mutie, G Morara, P Loki, C Nyamweya, M C Aura, and **N O Outa**. 2020. "The Impacts of Co-Management towards Sustainable Development and Utilisation of Fisheries Resources in Lake Naivasha, Kenya." Poultry, Fisheries and Wildlife Sciences 8 (1): 1–6.

Waithaka, Edna, **N O Outa**, Priscilla Boera, George Morara, Alice Mutie, Patrick Loki, and Beatrice Obegi. 2022. "Protection and Demarcation of Fish Breeding Areas: Is This the Solution to Increasing Fisheries Production of Lake Naivasha?" A Scientific Journal of Kenya Marine and Fisheries Research Institute.

Waithaka, Edna, Edwine Yongo, **N O Outa**, and Eunice Mutethya. 2020. "Population Biology of Nile Tilapia (*Oreochromis niloticus*) in Lake Naivasha, Kenya." Lakes & Reservoirs: Science, Policy and Management for Sustainable Use 25 (2): 244–49. https://doi.org/10.1111/lre.12319.

Yongo, E. O, J. O Manyala, J. M Njiru, **N O Outa**, K Kito, and Y Matsushita. 2016. "Length-Weight Relationship, Condition Factor, Sex Ratio, Gonadal Somatic Index and Size at Maturity of Omena, *Rastrineobola argentea* (Pellegrin, 1904) in Lake Victoria, Kenya." International Journal of Advanced Research 4 (6): 1740–46. https://doi.org/10.21474/ijar01/619.

Yongo, E, J O Manyala, K Kito, Y Matsushita, **N O Outa**, and J M Njiru. 2016. "Diet of Silver Cyprinid, Rastrineobola Argentea in Lake Victoria, Kenya." International Journal of Advanced Research 4 (4): 144–49.

Yongo, E, **N Outa**, K Kito, and Y Matsushita. 2018. "Studies on the Biology of Nile Tilapia (*Oreochromis niloticus*) in Lake Victoria, Kenya: In Light of Intense Fishing Pressure." African Journal of Aquatic Science 43 (2): 195–98.

Yongo, Edwine, Simon Agembe, **Nicholas Outa**, and Monica Owili. 2018. "Growth, Mortality and Recruitment of Nile Perch (*Lates niloticus*) in Lake Victoria, Kenya." Lakes & Reservoirs: Research & Management 23 (1): 17–23. https://doi.org/10.1111/lre.12203.

Yongo, Edwine, and **Nicholas Outa**. 2016. "Growth and Population Parameters of Nile Tilapia, *Oreochromis niloticus* (L.) in the Open Waters of Lake Victoria, Kenya." Lakes \& Reservoirs: Research & Management 21 (4): 375–79.

Yongo, Edwine, **Nicholas Outa**, Keiko Kito, and Yoshiki Matsushita. 2017. "Some Aspects of the Biology of Nile Perch, *Lates niloticus*, in the Open Waters of Lake Victoria, Kenya." Lakes & Reservoirs: Research & Management 22 (3): 262–66. https://doi.org/10.1111/lre.12182.

Yongo, Edwine, **Nicholas Outa**, and Steve Omari Ngodhe. 2017. "Effects of Water Hyacinth (*Eichhornia crassipes* Solm) Infestation on Water Quality, Fish Species Diversity and Abundance in the Nyanza Gulf of Lake Victoria, Kenya." International Journal of Fisheries and Aquatic Research 2 (1): 8–10.

Full list of publications: **Google Scholar**