



Curriculum vitae-Summary

Hannington Ochieng

Busitema University, Faculty of Science and Education, Department of Biology,
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Current position: Lecturer – Department of Biology, Faculty of Science and Education, Nagongera campus, Busitema University.

Biodata: Ugandan, male, born in Misukire village, Tororo District.

Education:

2018 -2021: PhD Environment and Natural Resources, Makerere University, Kampala, Uganda.

2004-2006: MSc Environmental Science (Limnology and Wetland Ecosystems), UNESCO-IHE - Institute for Water Education, Delft, The Netherlands.

1999-2002: BBLT (Bachelor of Biomedical Laboratory Technology) (Hons), Makerere University, Kampala, Uganda.

Major short trainings:

2019 (January): Advanced quantitative data analysis, Makerere University.

2009 (May): Statistical Data Analysis using SPSS and STATA, Bergen Consult (U) Ltd.

2006 (October): ArcGIS 9.x and GPS applications, Regional Center for Mapping of Resources for Development, Nairobi, Kenya.

2003 (August): Multidisciplinary Course in Tropical Freshwater Ecosystems Management, Kenya Wild Life Training Institute, Naivasha, Kenya.

2000 (September -November): Computer training using Microsoft Windows 98 & Office 2000 (Word processing, Excel, Access & Power point), SCI's Progress Institute, Kampala.

1998 (September): Equipment Maintenance & Fabrication training course under SPALNA, University of Nigeria, Nsukka, Nigeria.

Professional appointments:

2022 (Late) to date: Lecturer - Busitema University, Faculty of Science and Education, Department of Biology, Nagongera campus, Tororo, Uganda.

2009 - 2022: Chief Technician - Busitema University, Faculty of Science and Education, Department of Biology, Nagongera campus, Tororo, Uganda.

2008-2010: Part-time Lecturer, Department of Environmental/Biological Science, Islamic University in Uganda (IUIU), Mbale, Uganda.

1992-2009: From Laboratory Assistant, through ranks, to Senior Laboratory Technician/Head of Water quality studies by 2009, at the present National Fisheries Resources Research Institute, Jinja.

Research Awards/Grants:

2022 - 2023: Busitema University Research and Innovation Fund 2022/2023. Principal investigator. Project: *Connecting the Riparian Communities Around Rapid Bio-assessment of Pollution in the Osia Stream in Tororo, Eastern Uganda.*

2021-2022: National Geographic Society research collaboration grant. Principal Investigator. Project: *River Engage: Connecting the Riparian Communities Around Plastic Pollution of Rivers in Uganda, Indonesia, and the United States.*

2019-2020: Makerere University Research and Innovations Fund (RIF). Co-principal Investigator. Project: *Bioassessment of River Malaba, Eastern Uganda: A river with emerging disturbance from its catchment.*

2018: National Geographic Society Early Career Grant. *Biological assessment of River Aturukuku in Tororo, Uganda: a tropical river with potential environmental threats from its catchment.* Principal Investigator. PhD thesis.

2005-2006: UNESCO-IHE Fellowship Trust Fund (FTF) - MSc thesis research.

Key areas of Job and Scientific experience:

- Lecturing, supervision, and development of training course programs at university level:



Ochieng has hands on experience (over 12 years) in theoretical and practical lecturing of various course units such as Freshwater Biology, Freshwater quality and monitoring, Environmental degradation and mitigation measures, Laboratory design, storage and records, Laboratory quality Assurance, Ecology, Cell biology, Microscopy, and Microbiology.

- **Managing laboratories for teaching and research:** Managing Biology laboratories for teaching and research at university level (13 years' experience), and Macro-invertebrate and Physico-chemical laboratories for freshwater ecosystems research (over 14 years).
- **Freshwater research,** especially conducting physico-chemical measurements, and use of macro-invertebrate and diatom indices/scores and mouthpart deformities in Chironomidae (Diptera) larvae for assessing and monitoring freshwater ecosystems quality.
- **Environmental and Social Impact Assessment (ESIA):** He has participated and contributed as Water quality/Bio-assessment specialist to various ESIA for developmental projects within Ugandan river and lake basins, e.g., the oil exploration project within the Albertine region; the proposed mini-Hydropower within Rivers Siti in Bukwo, Lhubiriha and Nyamgasani in Kasese, and others (From 2003 to date).

Organisation membership:

- Alliance for Freshwater Life.
- Freshwater Biodiversity Observation Network.
- Reviewer - Environmental Monitoring and Assessment.
- Reviewer - Tropical Ecology.
- Editorial Board Member - Aquatic Science and Technology.
- National Geographic Society - Explorer in freshwater ecosystems research.
- Aquahub – For improving the healthiness of Eastern African Freshwater Ecosystems.
- Uganda Austrian Alumni Association.
- Eastern Africa Water Association (EAWA).

- Network of African Wetland Professionals.
- Virtual Alumni Community of the UNESCO-IHE.
- Soil and Plant Analytical Laboratories Network of Africa (SPALNA).

Publications:

- Ochieng H, Magezi G, Gandhi WP, Okot-Okumu J, Odong R. 2022. Epipellic diatom diversity as a bioindicator in River Aturukuku, Eastern Uganda. *Plant Ecology & Diversity* DOI: 10.1080/17550874.2022.2058430.
- Ochieng H, Gandhi WP, Magezi G, Okot-Okumu J, Odong R. 2021. Diversity of benthic macroinvertebrates in anthropogenically disturbed Aturukuku River, Eastern Uganda. *African Zoology* 56: 85-103. DOI: 10.1080/15627020.2021.1885309.
- Ochieng H, Odong R, Okot-Okumu J. 2020. Comparison of temperate and tropical versions of Biological Monitoring Working Party (BMWP) index for assessing water quality of River Aturukuku in Eastern Uganda. *Global Ecology and Conservation* 23: e01183. DOI: 10.1016/j.gecco.2020.e01183.
- Ochieng H, Okot-Okumu J, Odong R. 2019. Taxonomic challenges associated with identification guides of benthic macroinvertebrates for biomonitoring freshwater bodies in East Africa: A review. *African Journal of Aquatic Science* 44: 113-126. DOI: 10.2989/16085914.2019.1612319.
- Ochieng H, de Ruyter Van Steveninck ED, Wanda FM. 2008. Mouthpart deformities in Chironomidae (Diptera) as indicators of heavy metal pollution in northern Lake Victoria, Uganda. *African Journal of Aquatic Science* 33: 135-142. DOI: 10.2989/AJAS.2008.33.2.4.501.
- Ochieng H, Balirwa JS, Ocaya H. 2008. Pollution in Lake Albert with special reference to heavy metals. Jinja, Uganda, National Fisheries Resources Research Institute, 6pp. <http://aquaticcommons.org/id/eprint/20683>.
- Ochieng H, Ochaya H, Anguzu A, Magezi G. 2007. Physical variables, nutrient status and primary productivity of Kyoga Basin lakes of Lemwa, Omunuo, Gawa, Adois and Owapet. Jinja,



Uganda, National Fisheries Resources Research Institute (NaFIRRI), 10pp.

<http://aquaticcommons.org/id/eprint/17203>.

Masifwa WF, Okello W, Ochieng H, Ganda E. 2004. Phosphorus release from decomposing water hyacinth and effects of decomposition on water quality. *Uganda Journal of Agricultural Science* 9: 389-395.

Declaration

I, the undersigned, certify to the best of my knowledge that this data correctly describes my qualifications and experience.

A handwritten signature in blue ink, appearing to read 'Hannington Ochieng'.

Hannington Ochieng

Date: 13 October 2022