

# ACHIENG' ALFRED OTIENO

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## Educational Background

**September 2011- 2013:** UNIVERSITY OF ELDORET

Master of Science in Aquatic Sciences

**August 2007 – April 2011:** MOI UNIVERSITY;

Bachelor of Science in Fisheries and Aquatic Sciences

**May 2003 – July 2004:** AGA KHAN ACADEMY (MOMBASA)

A-level GCE Edexcel

**February 1999 – November 2002:** ALLIDINA VISRAM HIGH SCHOOL (MOMBASA)

Kenya Certificate of Secondary Education, Grade A-

## Work Experience

**September 2014 –** Lecturer: School of Natural Recourse; Department of Fisheries and Aquatic Sciences  
UNIVERSITY OF ELDORET

**Courses:** Water quality and Pollution Control (FSH 313), Fish Ecology (FSH 310) and Wetland Management (FSH 427E)

**September 2014 –** Part-time lecturer at the Department of Wildlife Management; UNIVERSITY OF ELDORET

**Course:** Information Technology for Natural Resources Management (WLM 315)

**September 2014 –** Part-time lecturer at the School of Science; Department of Biological Sciences;  
UNIVERSITY OF ELDORET

**Courses:** Applied Aquatic Science I (ALS 413) and Applied Aquatic Science II (ALS 415)

**September 2012 – August 2014:** Part-time lecturer at the Department of Fisheries and Aquatic Sciences;  
UNIVERSITY OF ELDORET

**Courses taught:** Fish Biology and Taxonomy, Introduction to Computer for Fisheries Management, Fish Ecology, Introductory Biostatistics, and Fisheries Statistical System

**May 2012 – To date:** Principal Investigator at BLACKSMITH INSTITUTE (NGO based in New York) Global Alliance Health and Pollution;

Investigation of toxic pollutants, their pathway, migration routes and the society subject to the toxic pollutants.

**April 2011 – To date:** Research Assistant (attached to Dr. P. Raburu) at VICTORIA INSTITUTE FOR RESEARCH ON ENVIRONMENT AND DEVELOPMENT (VIRED) INTERNATIONAL.

**May—July 2010:** Industrial attachment at the KENYA MARINE AND FISHERIES RESEARCH INSTITUTE (KEMFRI)

**2006—2007:** Kenya Ports Authority (KPA); Contract with ASSOCIATED ELECTRICAL & HARDWARE SUPPLIERS, Chainman (assisting Surveyor)

**2005—2006:** Kenya Ports Authority (KPA); Contract with H – YOUNG & CO. LTD, Messenger Project: KPA Extension Crane and Beam on Berth 18.

### **Research Experience**

- Database management with Blacksmith Institute: Investigation of Toxic Pollutant in major towns in Kenya.
- Data summary and analysis (SPSS, PAST, Minitab 16, Biplot, Statistica, Statgraphics, Microsoft Excel)
- Excellent computer software skills including; Microsoft office, modelling software (Quantum GIS) and statistical packages
- MPhil Thesis: Integrated Assessment of the Health of River Sosiani; Using Habitat Characteristics, Physico-Chemical Water Quality Parameters, Macrophytes and Macroinvertebrates.
- Seminar Presentations.
- Undergraduate Special Research Proposal and Project: Biomonitoring at King'wal Wetland
- Contract with GIZ: Trilateral Tilapia Cooperation Evaluation from 15<sup>th</sup> to 30<sup>th</sup> May 2014
- VIRED: Sustainable energy and VIRED international feasibility study on no sex for fish project

### **Publications**

Lusega. D. Manguya, Ani. J. Sabwa, Mwagudza. P. Masikha. Muteti K. Martha and **Achieng' A. Otieno.** (2015). Effects of Lactic and Ascorbic Acid Treatments on Proximate Composition and Shelf-Life of Sundried *Oreochromis Niloticus* Fillet. *African Journal of Education, Science and Technology.* 2 (3) 84-98.

Githukia. C. M., Ogello. E. O., Kembenya. E. M., **Achieng' A. O.**, Obiero. K. O., and Munguti. J. M., 2015. Comparative growth performance of male monosex and Mixed sex Nile tilapia (*Oreochromis niloticus* L.) Reared in earthen Ponds. *Croatian Journal of Fisheries.* 42-53.

**Achieng' A. O**, Raburu. P. O., Wanjala S. and Okinyi L. (2014). Use of Macrophytes in the Bioassessment of the Health of King'wal Wetland, Lake Victoria Basin, Kenya. *Aquatic Ecosystem Health and Management*. 17 (2): 129-136

Omari, S. N., Raburu P. O., and **Achieng' A. O** (2014). The impact of water quality on species diversity and richness of macroinvertebrates in small water bodies in Lake Victoria Basin, Kenya. *Journal of Ecology and the Natural Environment*. 6 (1):32-41.

Omari, S. N., Raburu P. O., Arara B. K., Orwa P. O. and **Achieng' A. O**. (2013) Spatio-temporal variations in phytoplankton community structure in small water bodies within Lake Victoria basin, Kenya. *African Journal of Environmental Science and Technology*. 7(9): 862-873.

Lusega, D. M., Odipo Osano., Wangila B. C. C. and **Achieng' A. O** (2013). Differences in Toxic Metals Bioaccumulation in Commercial Fish Species from Winam Gulf of Lake Victoria, Kenya. *African Journal of Education, Science and Technology*. 1 (2): 67-74.

### **In Progress**

**Achieng' A. O**, Raburu P. O, Kipkorir E, Ngodhe S. N, Obiero K. O, and Sabwa J. A. (2015) Assessment of Water Quality using Multivariate Techniques in River Sosiani; Kenya *Ecological Indicators*.

Ondayo. M, Raburu. P, Olal. F and **Achieng' A. O**. (2015) Assessment of the Impact of urban runoff from Eldoret town on the water quality of Sosiani River, Kenya. *Ecological Indicators*.

**Achieng' A. O**, Raburu. P. O, Kipkorir. E. and Ngodhe S.O Integrated assessment of the health of River Sosiani, Kenya

Obwa V., Raburu P.O., **Achieng' A.O** and Obiero. K. Diatoms as indicators of Environmental Quality of Urban Streams in the Lower reaches of Lake Victorian Basin, Kenya. *Ecological Indicators*

### **Project**

Feasibility Study on No Sex for Fish (NSFF) Initiative in the Lake Victoria Basin, Kenya (2015). *Sustainable Energy and VIRED International*.

Wanjohi, B. K., Gichohi. W. N., Ipara. H., Kimuyu. D. M., Burudi. B., Kimeu. J., and **Achieng A. O** (2013) Environmental Impact Assessment Study Report for the Proposed Biological Control, Field Trial of *Opuntia stricta* (Cactaceae) by *Dactylopius opuntiae* Biotype "Stricta" in Ol Jogi Ranch, Laikipia

### **Membership**

Aquatic Ecosystem Health and Management Journal: P.O. Box 85388, Brant Plaza Postal Outlet, Burlington Ontario, Canada, L7R 4K [www.aehms.org](http://www.aehms.org)

Consortium for Research in East African Tropical Ecosystems (CREATE): [http://www.bayceer.uni-bayreuth.de/CREATE/en/mitarbeiter/mit\\_m\\_adrlist.php](http://www.bayceer.uni-bayreuth.de/CREATE/en/mitarbeiter/mit_m_adrlist.php)

## Conferences

**Feb 3<sup>rd</sup> – 6<sup>th</sup> 2015:** International Conference. Moi University, Maseno University, Lake Basin Development Authority and Universitata Bayreuth. Theme: From Science to Integrated Socio-Economic Development- Understanding Ecosystem Degradation, Restoration ecology and Water Management in Lake Basin Region of Kenya.

**Sep 3<sup>rd</sup> – 5<sup>th</sup> 2013:** First International Interdisciplinary Conference – University of Eldoret. Theme: “Knowledge and Technological Innovation for Global Competitiveness”

**Sep 4<sup>th</sup> – 8<sup>th</sup> 2012:** 8<sup>th</sup> Annual International Conference – Moi University. Theme: “Adaptations to Global Dynamics: Challenges and Opportunities”

## Workshops

**June 3<sup>rd</sup> & 4<sup>th</sup> 2013:** Global Alliance Health and Pollution: National Toxic Action Plan; Review results of Assessment effort and Identification of Priority Sites; Nairobi, Kenya

**April 4<sup>th</sup> & 5<sup>th</sup> 2013:** Environmental Liaison International: Empowering People and Nature, Lake Victoria Project; Technical and Policy Review Meeting on Inland Fisheries: Focus on Pollution in Lake Victoria

## Seminar

**July 7<sup>th</sup>-26<sup>th</sup> 2014:** Environmental Impact Assessment and Environmental Audit Course: School of Environmental Studies, University of Eldoret.

## Short Course

**August 18<sup>th</sup>-September 21<sup>th</sup> 2014** International Network for the Availability of Scientific Publications (IANSP) Moodle: AuthorsAID in Research Writing Course: Environmental Health (Blacksmith Institute)

## Leadership

**2014**— Church Elder: **Calvary Chapel Eldoret**

**2014**— Church Deacon: **Calvary Chapel Eldoret**

**2012**— **To date:** Member of Christian Union Advisory Committee (UoE)

**2008**—**2011:** Moi University Chepkoilel Campus Christian Union – Bible Study Group Leader

**2009**—**2010:** Fisheries Association of Moi University – Editor

**2005**—**2006:** Elim Evangelistic Church (Mombasa) – Youth leader, Home Bible Study Leader, Choir Prayer Group Leader, Church Prayer Group Leader

## **Referees**

Dr. Phillip Raburu

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Prof. Emmanuel Kipkorir

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Phone number: 0722598207

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Dr. Bernard Kirui

Egerton University

Phone Number:

Email-address: [bkirui@yahoo.com](mailto:bkirui@yahoo.com)

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