

Wamukota, Andrew, PhD

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Personal Record

Citizenship: Kenyan
Languages: English and Swahili- Fluent in both written and spoken

Statement of Interest

My interest lies in evaluating and sharing information related to different aspects of environmental science through scientific methods.

Education

- 2014:** PhD in Environmental Science, Linnaeus University, Kalmar, Sweden. Thesis: Fishermen and fishtraders in Kenya: Resources, livelihoods and the influence of global markets.
- 2007:** Master of Philosophy in Environmental Studies, Moi University, School of Environmental Studies. Thesis: Marine fish marketing among the coastal fisherfolk: A case study of Malindi and Kilifi Districts.
- 1997:** Bachelor of Arts, University of Nairobi, Second Class Upper Division

Professional Experience

I have over seven years progressive experience in research. My research activities have focused on the developmental aspects of local coastal communities in Kenya as well as interacting ecological and socioeconomic drivers of marine resource management.

For over seven (7) years, I coordinated almost twenty coastal communities in sustainable development from marine turtle conservation at the Kenya Sea Turtle Conservation and Management Trust-KESCOM. At KESCOM, I was responsible for designing and implementing research activities that covers the anthropogenic and natural threats to marine turtles and the involvement of communities in their (sea turtles) conservation and management. I have also undertaken research on socioeconomic and ecological drivers of resource change and implications for management with other scientists at the Wildlife Conservation society (WCS). I successfully defended my PhD at Linnaeus University in Sweden in September 2014. At Linnaeus University, I took a course on teaching in higher (university) education at a PhD level. This course involved analyzing the pedagogical tasks of the university, evaluating how the university meets with students with varying backgrounds, analyzing different views on knowledge and learning important for curricula development, analyzing and evaluating different didactic aspects on the contents and methods of teaching, analyzing the relationship between leadership and group dynamics as well as building strategies to develop and document pedagogic skills. My PhD thesis focused on how distant fish markets affect coastal communities in Kenya and how the communities grapple with such effects.

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Since September 2014, I have been teaching at Pwani University in the School of Agriculture and Environmental Sciences and supervising students at undergraduate, masters and PhD level.

Summary of professional related engagements

February 2014-Current: Post doctoral researcher: “Sustainable poverty alleviation from coastal ecosystem services” (SPACES) project. Also teaching at Pwani University in the department of Environmental Sciences.

February 2014-Current: Post doctoral researcher: “Sustainable poverty alleviation from coastal ecosystem services” (SPACES) project.

January 2010- 2011: Project coordinator, Wildlife Conservation Society- Coral Reef Conservation project. Contracted to implement two regional research projects (1. How protected areas affect fishers spatial behavior and 2. Economic valuation of coastal and marine resources) in which I was also a principle investigator

January 2010- 2011: Principal investigator, KESCOM on a project focusing in implications of Global Markets on local resources and communities in the Western Indian Ocean region.

August 2007- 2008: Research Associate, Wildlife Conservation Society-Coral Reef Conservation project.

Project: Effectiveness of Community organizations in managing coastal and marine resources in the Western Indian Ocean.

October 2006 – December 2006: Wildlife Conservation Society: Researcher on a project monitoring social and ecological impacts following the 1998 coral reef bleaching in Tanzania.

June – September 2005: Wildlife Conservation Society: Researcher on a project monitoring social and ecological impacts following the 1998 coral reef bleaching in Kenya.

Publications

Peer reviewed articles, manual and book chapter

- A. Wamukota**, T Brewer and B Crona (2014). Market integration and its relation to income distribution and inequality among fishers and traders: The case of two small-scale Kenyan reef fisheries. *Marine Policy*. **48**, 93-101
- A. Wamukota**, Crona B., Osuka K. and Daw T. The importance of selected individual characteristics in determining transaction prices between fishers and traders in Kenyan small-scale fisheries. *Accepted in Society and Natural Resources*
- Cinner, J., Daw TM, Huchery C., Thoya P, **Wamukota A**, Cedras M, Abunge C (2014) Winners and Losers in Marine Conservation: Fisher’s Displacement and Livelihood Benefits From Marine Reserves. *Society and Natural resources*
- Wamukota A**, McClanahan TR. The influence of global trade on local fish prices and implications for food security in an African coral reef fishery. *Submitted to Environmental Management*
- A Wamukota**, B. Crona, R. Abila and J. Ochiwo. Global fish markets and local livelihoods. *Submitted to the Western Indian Ocean Journal of Marine Science*
- Cinner J, TM Daw, TR McClanahan, N Muthiga, C Abunge, S Hamed, B Mwaka, A Rabearisoa, **A. Wamukota**, E. Fisher, N. Jiddawi. (2012) Transitions toward co-management: the process of marine resource management devolution in three east African countries. *Global Environmental Change* 22:651-658

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- Cinner JE, TR McClanahan, MA MacNeil, NAJ Graham, TM Daw, A Mukminin, DA Feary, AL Rabearisoa, A **Wamukota**, N Jiddawi, SJ Campbell, AH Baird, FA Januchowski-Hartley, S Hamed, L Lahari, T Morove and J Kaunge (2012) Comanagement of coral reef social-ecological systems. *Proceedings of the National Academy of Sciences of the United States of America* 109 (14): 5219-5222
- A Wamukota**, JE Cinner, TR McClanahan (2012). Co-management of coral reef fisheries: A critical evaluation of the literature. *Marine Policy*
- A Wamukota**, E Mueni, A Tuda and N Muthiga (2010) All about turtles. An education and awareness manual. *Kenya sea Turtle Conservation and Management Trust*. Mombasa, Kenya
- A Wamukota**, E Mueni, A Tuda and N Muthiga (2010) Yote Kuhusu Kasa. Mwongozo wa Elimu na Uhamasisho. *Shirika la Kenya la usimamizi na uhifadhi wa kasa wa bahari (KESCOM)*, Mombasa, Kenya
- Cinner, JE, TR McClanahan, **A Wamukota**. (2010) Differences in livelihoods, socioeconomic characteristics, and environmental perceptions between fishers and non-fishers living near and far from marine parks on the Kenyan coast. *Marine Policy* 34(1): 22-28
- A Wamukota** (2009). The Structure of Marine Fish Marketing in Kenya: The Case of Malindi and Kilifi District. *Western Indian Ocean Journal of Marine Science* Vol. 8, No. 2, 215 – 224
- Kamau EC, **A Wamukota** and N Muthiga. (2009) Promotion and Management of Marine Fisheries in Kenya In Winter, G (Ed). *Towards Sustainable Fisheries Law. Comparative Analysis. IUCN*, Gland, Switzerland. xiv + 340 pp.
- A Wamukota** and G Okemwa (2009) Perceptions about trends and threats regarding sea turtles in Kenya, In J. Hoorweg and N. Muthiga (eds) *Advances in Coastal Ecology: People, processes and ecosystems in Kenya. African Studies Centre*, Leiden
- Cinner JE, **A Wamukota**, H Randriamahazo, and A Rabearisoa (2009). Toward institutions for community-based management of inshore marine resources in the Western Indian Ocean. *Marine Policy* 33:489-496
- Cinner J, TR McClanahan, C Abunge, and **A Wamukota** (2009). Human dimensions of conserving Kenya's coral reefs. In J. Hoorweg and N. A. Muthiga, editors. *Advances in Coastal Ecology: People, processes and ecosystems in Kenya. African Studies Centre*, Leiden
- McClanahan TR, JE Cinner, NAJ Graham, TM Daw, J Maina, SM Stead, **A Wamukota**, K Brown, V Venus, and NVC Polunin. 2009. Identifying Reefs of Hope and Hopeful Actions: Contextualizing Environmental, Ecological, and Social Parameters to Respond Effectively to Climate Change. *Conservation Biology* 23:662-671
- McClanahan TR, JE Cinner, J Maina, NAJ Graham, TM Daw, SM Stead, **A Wamukota**, K Brown, M Ateweberhan, V Venus and NVC Polunin. (2008). Conservation action in a changing climate. *Conservation Letters* 1:53-59
- Cinner, J., T. McClanahan, C. Abunge, and **A. Wamukota** (2007). A baseline socioeconomic assessment of fishing communities along the north coast of Kenya in J. Hoorweg, and N. Muthiga, editors. *Coastal Ecology. African Studies Center*, Leiden, Netherlands
- A Wamukota** (2005) Using a rights based approach to conserve Natural Resources: The Case of Sea Turtles. In Wakwabubi E and Matendo L (eds) *Institutionalizing Rights in Development Through Citizen Participation. Case Studies from Kenya, Uganda and Zimbabwe. Participatory Methodologies Forum of Kenya (PMAFORK)*. Nairobi.
- A Wamukota** and H Iguchi (2005) Sea turtle education and awareness campaign manual. A Kenya sea Turtle conservation Committee publication

Technical Reports

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- H. Sigalla, V.Simon, E. Shemaghembe, R. F. Sambaiga, G. A. Lema, **A Wamukota**, R. Abila and J Ochiewo (2011) Global Markets and the Livelihoods of Coastal Communities in the WIO countries. Implications for Sustainable Coastal Management. Report submitted to Western Indian Ocean Marine Science Association's MASMA program
- A Wamukota**, J Maina and A Tuda (2010) Modelling the nesting habitats for marine turtles: A case study in the Kenyan coastline. Report submitted to the Western Indian Marine Science Association
- A Wamukota** and R Machaku (2009) Empowering the Conservation of sea turtles in Kenya. Report submitted to Save our Sea Foundation.
- A Wamukota** (2009) Integrating community-based Sea Turtle Conservation with Ecotourism on Funzi Island, Kenya. Report submitted to IUCN, Netherlands
- A Wamukota** (2011) Training Report on Conducting and Application of SocMon at La Gaulette and Le Morne, Mauritius. Report submitted to the Ministry of Environment and Sustainable Development and ReCoMaP
- A Wamukota** and D Maina (2011) An Evaluation report of the Socioeconomic Monitoring Network in the Western Indian Ocean (SocMon WIO). Report submitted to CORDIO East Africa
- A Wamukota**, D Maina and R Machaku (2009) Progress report on Socioeconomic monitoring in Tana Delta study area, Kenya. Report submitted to CORDIO East Africa
- A Wamukota**, D Maina and K Omwenga (2009) Transboundary socioeconomic monitoring report. Report submitted to CORDIO East Africa
- A Wamukota** (2007) Elevating Sea Turtle Conservation through awareness in Kenya. KESCOM Technical Report Series, 2007, Mombasa, Kenya
- A Wamukota** (2007) Advancing Sea Turtle Conservation Work in Kenya. KESCOM Technical Report Series, 2007, Mombasa, Kenya
- S. Nzuki S. **A Wamukota**, E Mueni (2004). Enhancing Community Participation in the Conservation and Management of Sea Turtles in Kenya. KESCOM Technical Report Series, 2004, Mombasa, Kenya.
- A Wamukota** (2001). Cost and Benefits of Natural Resource Management. "A tale of two micro-catchments" In Strengthening Capacities Empowering Local Communities, SARDEP 1999-2000 Mid Term Progress Report- Kajiado, Keiyo and Marakwet, Laikipia

Selected presentations in Scientific fora

- A. Wamukota**, T.D. Brewer, B. Crona (2014) Income distribution and inequality among fishers and fish traders in two small-scale Kenyan coral reef fisheries. Queensland University of Technology, Brisbane, Australia from 7 to 11 July 2014.
- A. Wamukota** and T.R McClanahan (2014) Testing for the influence of global trade on local fish prices and food security in an African coral reef fishery. Queensland University of Technology, Brisbane, Australia from 7 to 11 July 2014.
- A. Wamukota** and T.R McClanahan (2013) The influence of global trade on local fish prices and implications for food security in an African coral reef fishery. 8th WIOMSA Scientific Symposium of Marine Science, Maputo, Mozambique, 28 October- 2 November 2013
- A Wamukota** and B Crona (2011) Global Markets and Fisherfolk livelihood vulnerabilities. Stockholm resilience center, Stockholm, Sweden
- J Cinner, **A Wamukota** et al (2011) Finding Success: Socioeconomic and institutional dimensions of successful co-management. 16th March at Whitesand Hotel, Mombasa, Kenya
- A Wamukota**, C Hicks, C McClennen, T McClanahan (2011) An Economic valuation of coastal and marine ecosystem services in the WIO to identify specific beneficiaries, and the role of marine protected areas in ensuring that these services are sustained. 16th March 2011 at Whitesands hotel, Mombasa, Kenya

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- A **Wamukota** (2009) Status and distribution of marine turtles in Kenya. Sun N Sand hotel, Kikambala, Kenya
- A **Wamukota, J Cinner and T McClanahan** (2009) Effectiveness of community based organizations in Managing marine resources in Kenya, White sands hotel, Dar es Salaam, Tanzania.
- A **Wamukota** (2009) Status and distribution of marine turtles in Kenya. Sun N Sand hotel, Kikambala, Kenya
- A **Wamukota** (2008) Ecosystem services and Poverty alleviation. 10th May 2008 at Hotel Sairoc, Mombasa, Kenya
- A **Wamukota, N Muthiga** (2005) Promotion and management of Marine Fisheries in Kenya. Bremen University, Germany

Supervision

- Ndeke Arnold Mukundi, M.Sc:** An assessment of human-wildlife conflict mitigation measures. A case study of Arabuko Sokoke Forest (2014, proposal stage-Pwani University).
- Chelangat Margaret, M.Sc:** Effectiveness of community participation in reforestation practices: A case study of Londiani location, Kericho county, Kenya (2014, proposal stage-Pwani University).
- Ratemo Bathseba Moraa, M.Sc:** Study of the effectiveness of solid waste management practices among households in Giturai 45, Kiambu county (2014, proposal stage-Pwani University).
- Patrick Kimani, Ph.D.:** Value Chain Analysis Of Small-Scale Marine Finfish Fisheries at Selected Sites of Kenya Coast (2014- Pwani University).

Membership

- Western Indian Ocean Marine Science Association (WIOMSA)
- Kenya Sea Turtle Conservation and Management Trust (Kescom)
- OceanExpert: A directory of Marine and Fresh water professionals
- Global Trade Analysis Project network
- IUCN Species survival commission
- Indian Ocean South East Asia Marine Turtle Memorandum of Understanding on the Conservation of Sea Turtle, Western Indian Ocean Marine Turtle Task Force (IOSEA MoU WIO MTTF)