


Personal Profile

Personal Details

<p>Name: ANTHONY N. MACHARIA Title/Qualification: PHD Department: Geography Designation/Position: Lecturer Email: macharia.anthony@ku.ac.ke Contact Address: Area of Specialization: Biogeography - Ecology - Paleoecology Research Interests: - Biogeochemistry - Ecology Google Scholar: https://scholar.google.com/citations?hl=en&view_op=list_works&gmla=AJsN-F7tten1EDSa6VINjGkDOWtvKwcpHCmeu66kpvXJ61t9z0cFKMTR9fKvEPio7aQ5ov2mtqSo87-VScIC7oTrfsxZ9g-34g&user=rYyi_alAAAAJ ORCID ID:</p>	
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Academic & Professional Qualifications

- Aug '09 – Aug '12 Ph.D. in Paleogeography, Dept. of Geography, University of Utah (UoU), Salt Lake City, UT
- Aug '05 – Jul '09 M.Sc. in Isotope Ecology, Dept. of Biology, University of Utah (UoU), Salt Lake City, UT
- Aug '03 – Jul '05 M.Sc. in Ecology & Systematics, Dept. of Biology, San Francisco State University (SFSU), San Francisco, CA
- Jun '00 – Jul '00 Paleoanthropology field Course, Rutgers University (RU), New Jersey, US
- Jun '95 – Jul '99 B.Sc. in Biology (Botany & Zoology), University of Nairobi (UoN), Nairobi, KENYA

Employment History

- National Museums of Kenya, Palaeontology Department, (Research Intern), 2000 – 2003
- University of Utah, Department of Geology & Geophysics, Department of Biology, 2005 – 2009, (Work-study)
- University of Utah Department of Geography 2009 – 2012
- Kenyatta University, Geography Department, Lecturer (2014 – present)

Achievements

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Publications

Referred Journals

- Morris, J. L., le Roux, P. C., Macharia A. N., Brunelle, A., Hebertson, E. G., Lundeen, Z. J. (2013). Organic, elemental, and geochemical contributions to lake sediment deposits during severe spruce beetle (*Dendroctonus rufipennis*) disturbances. *Forest Ecology and Management*, 289, 78–89.
- Macharia, A. N., Uno, K. T., Cerling, T. E., Brown, F. H. (2012). Isotopically distinct modern carbonates in abandoned livestock corrals in northern Kenya, *Journal of Archaeological Science*, 39: 2198–2205, doi:10.1016/j.jas.2012.02.005.
- Cerling, T. E., Andaje, S. A., Bird, M. I., Korir, D. K., Levin, N. E., Mace, W., Macharia, A. N., Remien, C. H., Wynn, J. G. (2011). Woody cover and hominin environments in the past 6 million years. *Nature*, 476: 51–56, doi:10.1038/nature10306.
- Cerling, T. E., Omondi, P., Macharia, A. N. (2007). Diets of Kenyan elephants from stable isotopes and the origin of confiscated ivory in Kenya. *African Journal Ecology*, 45: 614–623.
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Books and Books Chapters

- Macharia, A. N., Cerling, T. E., Matthew J. J., Jay R. K. (April 2014). The hair-diet ¹³C and ¹⁵N fractionation in *Chlorocebus aethiops sabaesus* based on a control diet study. *Ann. Zool. Fennici* 51: 00–00 ISSN 0003- 455X (print), ISSN 1797-2450 (online). Helsinki 2014 © Finnish Zoological and Botanical Publishing Board 2014.
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Conference/Workshops/Seminar Papers

Conference Papers

- Macharia, A. N. (2016) Potential Benefits of Using Teaching Kits in Inquiry-Based Learning in Geosciences. Status Conference on Higher Education Conference, Kenyatta University, 22nd – 25th, 2016.
- Macharia, A. N. (2016) Modelling Stable Isotope Attributes of Wildlife Habitats Using Space Technologies for Forensics Applications. United Nations/Kenya Conference on Space Technology and Applications for Wildlife Management and Protecting Biodiversity. UNEP, Nairobi, 27th – 30th June, 2016.
- Macharia, A. N., Cerling T. E., Remien, C. H., Mace W. D., Andanje, S. A., & Dennison, P. E. (2014). Soil Carbon Isotope Ratios and Landscape Variability in East Africa. Africa Nazarene University 1st Annual International Conference: Information and communication technologies for sustainable development, 28th – 30th May, Ongata Rongai campus

- Macharia, A. N., Power, M. J. (2011) Long-term perspectives of Utah Lake. 25th October, 7th Annual Utah Lake Symposium, Utah Valley University.
- Macharia, A. N., Power, M. J. (2011). Deciphering the role of Climate- versus human-caused disturbance during the 19th and 20th century; A contrast between Utah Lake and Foy Lake. 6th to 9th March. Poster, Climate Variability of Eastern US and Western North Pacific (PACLIM) meeting, Pacific Grove, California.
- Macharia, A. N., Power, M. J. (2010). Climatic, and anthropogenic influences on lake nutrient dynamics: An insight from 15N natural abundance of Utah Lake and Foy Lake sedimentary profiles. Poster, 55th Annual Meeting, American Association of Geographers, Washington DC, April 14–18.
- Macharia, A. N., Power, M. J. (2009). Climatic, and anthropogenic influences on lake nutrient dynamics: A contrast between Utah Lake and Foy Lake sedimentary profiles. Poster, American Association of Geographers, Great Plains, Rocky Mountain Division, September 25 – 26, Utah State University, Logan, Utah.
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Workshops Papers

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Seminar Papers

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Student Co-authored Publications

- Saturday, A., Makokha, G. M., Macharia, A. N. (2016). Household Water Treatment Technologies for Microbial Removal in Kabale District, Southwestern Uganda. *Journal of Environment and Health Sciences*, 2(1): 1–8.
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Other Publications

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Research

- Urban Heat Island Modelling
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Funded Projects

- Kenyatta University Enhancement of Learning Experience with Aids (KUELEWA)
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Conferenced/Workshops/Seminars Attended

Conferences Attended

- Sustainable Blue Economy Conference, Nairobi, 26TH – 28TH November 2018.
- United Nations/Kenya Conference on Space Technology and Applications for Wildlife Management and Protecting Biodiversity. UNEP, Nairobi, 27th – 30th June, 2016.
- Status Conference on Higher Education Conference, Kenyatta University, 2016.
- Africa Nazarene University 1st Annual International Conference: Information and communication technologies for sustainable development, 28th – 30th May, Ongata Rongai campus
- 6th to 9th March 2011. Poster, Climate Variability of Eastern US and Western North Pacific (PACLIM) meeting, Pacific Grove, California.
- American Association of Geographers, Great Plains, Rocky Mountain Division, 25 – 26th September, Utah State University, Logan, Utah, 2010
- 55th Annual Meeting, American Association of Geographers, Washington DC, April 14–18, 2010

Workshops Attended

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Seminars Attended

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Supervision of Postgraduate Students

Masters

- Shikuku Evans Tsabuko I56/CE/21226/2012 Modelling streamflow responses to landuse/landcover changes of Kimondi watershed in Yala River Basin, Nandi County Dr. S. K. Murimi and Dr. A. N. Macharia (Graduated).
- Alex Saturday I56EA/23068/2013 Effectiveness of household water treatment technologies for microbial removal in Kabale District, southwestern Uganda Dr. G. L. Makokha and Dr. A. N. Macharia (Graduated).
- Albert Kobina Mensah I56F/23072/2013 Evaluating the effect of Eucalyptus plantations on soil physical-chemical properties in Thiririka Sub-Catchment, Gatundu South District, Kiambu County, Kenya Dr. S. K. Murimi and Dr. A. N. Macharia (Graduated)
- Agnes Cherono C50/26080/2013 Evaluating effects of rainfall variability on tea production and coping measures by smallholder farmers in Bomet Central Subcounty, Bomet County, Kenya Dr. George Makokha and Dr. A. N. Macharia (Preparing for Defence).
- Njogu Margaret Wairimu C50/23052/2013 An evaluation of the effectiveness of wildlife corridors in mitigating human-elephant conflict in the Mount Kenya Region. Prof. J. A. Obando and Dr. A. N. Macharia Preparing to defend proposal
- Kubumba Daniel C50/CE/28010/2015 Influence of Water Hyacinth on Fishing Activities At Marenga Beach In Port Victoria, Busia County, Kenya Dr. R. M. Kweyu and Dr. A. N. Macharia Preparing to defend proposal.
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Ph. D

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Professional/ Consultancy (Editor/ Peer review in journals, Networks/
Collaborations, External Examiner, Patents)

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Community Service and Other Engagements

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Affiliation of Professional Bodies

- Nature Kenya (East African Natural History Society)
- American Association of Petroleum Geologists

National and International awards and Recognitions

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Administrative Positions Held

Recognized university administrative positions

- Chair, Department of Geography Postgraduate Board
- Member, Teaching allocation committee
- Member, Curriculum Development committee
- Member, ISO committee
- Member, Fieldwork committee

Other administrative positions Held

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