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Hirola Conservation Programme
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Conservation and Research Interests:

Wildlife ecology and conservation, reintroduction biology, population dynamics, spatial ecology, natural history of mammals, impacts of landscape change on wildlife, rangelands restoration, evidence based conservation and conservation in human occupied landscapes.

Education:

PhD in Ecology, 2016, University of Wyoming. Advisor: Jacob R. Goheen
MSc in Conservation Biology, 2009, University of Nairobi. Advisor: Robert M. Chira.
BSc in Wildlife Biology, 2005, University of Nairobi. Advisor: Charles N. Kimwele.

Professional Employment History:

2008-present Founder and Director, Hirola Conservation Programme, Kenya
2006-2007 Environmental Scientist, Terra Nuova, Eastern Africa/Italy.
2005-2006 Research Assistant, (Wildlife Ecology), National Museums of Kenya.

Peer-Reviewed Publications:

2014 Amin, R., Andanje, S., Ogwonka, B., **Ali, A. H.**, Bowkett, A. E., Omar, M., & Wachter, T.
The northern coastal forests of Kenya are nationally and globally important for the conservation of Aders' duiker (*Cephalophus adersi*) and other antelope species. *Biodiversity & Conservation*, 1-18.

Manuscripts Under Review:

In Review **Ali, A.H.**, R. Amin., J.S. Evans, M. Fischer., A.T. Ford., A. M. Kibara., and J.R. Goheen. Evaluating support for range-restoration practices by rural Somalis: a win-win for local livelihoods and conservation of the world's most endangered antelope? *Journal of Applied Ecology*.

In Review **Ali, A.H.**, A.T. Ford., J.S. Evans., M. Hayes., A.M. Kibara., J. King., D. Mallon., and J.R. Goheen. Landscape change, range collapse, and habitat selection of the critically-endangered hirola antelope in eastern Kenya. *Journal of Applied Ecology*.

Manuscripts In Preparation

- 2016 **Ali, A.H.**, M.J. Kauffman., R. Amin., D. Mallon., and J.R. Goheen. Demographic drivers of the worlds' most endangered antelope: matrix models guide strategies for reintroductions.
- 2017 **Ali, A.H.**, M.J. Kauffman., R. Amin., D. Mallon., and J.R. Goheen. Protecting the world's most endangered antelope from predation: demographic model to inform future reintroductions.

Popular Press Articles:

- 2014 **Ali, A.H.**, Goheen J.R., Amin, R, & Lekolol, I. Lessons from the capture and collaring of the critically endangered hirola Antelope (*Beatragus hunteri*), Ijara, Kenya, Gnusletter 31: 8-13. *International Coverage by The Belfast Telegraph, The Christian Science Monitor, The Express, The Metro, The Sun, and others (see example on <http://www.belfasttelegraph.co.uk/news/world-news/rare-antelope-monitored-with-gps-29041185.html>)*
- 2012 **Ali, A.H.**, Andanje S., & Goheen J.R. A diamond in the rough: conservation and ecology of hirola antelope in northeastern Kenya. East African Wildlife Society Swara Magazine, January-March Issue, pgs 56-57. *Kenyan National Coverage by The Standard.* (<http://www.standardmedia.co.ke/?articleID=2000035100&pageNo=1>)
- 2012 **Ali, A.H.**, & Goheen J.R. Saving the world's most endangered antelope. Association of Zoos and Aquariums, Connect Magazine, USA. March Issue, pg 43.
- 2009 **Ali, A.H.** Community based giraffe conservation & poverty alleviation in Garissa, Kenya: approaches, challenges and achievements. Giraffa 3 (1): 11-13. *Kenyan National Coverage by The Standard.* http://www.standardmedia.co.ke/article/2000042506/gentle-giraffes-face-tall-order-in-garissa?articleID=2000042506&story_title=gentle-giraffes-face-tall-order-in-garissa&pageNo=2

Technical Reports

- 2015 Andanje, S., Davey, K., Ogwoka, B., Agwanda, B., **Ali, A.**, Bruce, T., Wachter, T. and Amin, R. Mammal Diversity Surveys in the Coastal Forests; Kenya 2010 – 2011. The Zoological Society of London, Regents Park, London, NW1 4RY
<http://www.hirolaconservation.org/images/scientific-publications/Kenya%20Coastal%20Forest%20Mammal%20Diversity%20Report.pdf>
- 2015 Doherty, J., **Ali A.H.**, Fennessy J, Marais A., & Wube T. Reticulated Giraffe (*Giraffa camelopardalis reticulata*), Conservation Status Report, for IUCN SSC Giraffe & Okapi Specialist Group and the International Union for Conservation of Nature.
- 2014 **Ali, A.H.**, Goheen, J.R., Muthee, A. K., Hayes, M.M., Evans J. S., & Amin, R. Hirola Conservation Programme Progress Report: Primary Findings from 2012-2014, The Kenya Wildlife Service and IUCN Antelope Specialist Group.
<http://hirolaconservation.org/publications/reports>
- 2014 Zelt, J., Stanley, L., Boyer, K, Maurer, M., & **Ali, A H.** Hands-on student learning curriculum for snow leopard conservation in Mongolia and Nepal, The Snow Leopard Conservation Trust, USA.

- 2013 **Ali, A.H.**, Goheen J.R., & Muthee, A. K. Hirola Conservation Programme Progress Report, The Kenya Wildlife Service and IUCN Antelope Specialist Group, <http://hirolaconservation.org/publications/reports>
- 2011 King, J., Andanje, S., Musyoki, C., Amin, R., Goheen, J.R, Lesimirdana D, & **Ali, A.H.** Aerial survey of hirola (*Beatragus hunteri*) and other large mammals in southeastern Kenya. Technical report to the Kenya Wildlife Service. <http://www.nrt-kenya.org/hirola-aerial-survey-report/>
- 2011 **Ali, A.H.**, Goheen J.R., & Muthee, A. K. Hirola Conservation Programme Progress Report, The Kenya Wildlife Service and IUCN Antelope Specialist Group, <http://hirolaconservation.org/publications/reports>
- 2011 Musila, W., Kivai, S.M., **Ali, A.H.**, Nancy, M., Fundi, P., Nyaga, S., & Bolo, E. Biodiversity Assessment of Chyulu Hills Ecosystem. Technical Report, National Council of Science & Technology, Kenya.
- 2007 Antipa, R.S., Ali, M.H., & **Ali, A.H.** Assessment of the potential of ecotourism as viable enterprises in Garissa and Lamu Districts: community conservation and enterprise support initiative, Kenya. Technical report for TerraNuova Eastern Africa, Italy. <http://www.terranuova.org/articoli/transboundary-environmental-project>
- 2006 Antipa, R.S., Ali, M.H., & **Ali, A.H.** Preservation and maintenance of indigenous Knowledge among the hunter-gatherer Boni community, Ijara District, Kenya. Technical report for TerraNuova Eastern Africa, Italy. <http://www.terranuova.org/articoli/transboundary-environmental-project>

Scientific Presentations (past five years):

- 2016 **Ali, A.H.** The hirola conservation programme, International Conservation House, Rainforest Trust, Warrenton, VA
- 2016 **Ali, A.H.**, Goheen, J.R., & Amin R. Evaluating support for range-restoration practices by rural Somalis: an unlikely win-win for local livelihoods and the world's most endangered antelope? Pathways conference, Nanyuki, Kenya.
- 2015 **Ali, A.H.**, Goheen, J.R., Fisher, M., & Avendano L. The hirola conservation programme in Kenya, The Zoos & aquariums: committing to conservation conference, Denver, CO
- 2015 **Ali, A.H.**, Ford, A.T., Goheen, J.R., Muthee, A. K., Hayes, M.M., & Amin, R. Elephant extirpation, landscape change and resource selection of the critically-endangered hirola antelope in eastern Kenya, Ecology students' symposium, Program in Ecology, University of Wyoming, WY
- 2014 **Ali, A.H.**, Avendano L & Goheen, J.R. The hirola conservation programme, Wildlife Conservation Network Expo 2014, Mission Bay Conference Center, San Francisco, CA
- 2014 **Ali, A.H.**, Goheen, J.R., Muthee, A. K., & Amin, R. Working to save the world's most endangered antelope, Brown bag seminar, Department of Zoology and Physiology, University of Wyoming, WY.
- 2014 **Ali, A.H.**, & Goheen, J.R. The hirola conservation programme, Houston Zoo, Houston, TX.
- 2014 **Ali, A.H.**, & Goheen, J.R. Understanding resource selection and movements of hirola to inform future reintroductions American Society of Mammalogists, Oklahoma.

- 2013 **Ali, A.H.**, & Goheen, J.R. Working to save the world's most endangered antelope, Ecology students' symposium, Program in Ecology, University of Wyoming, WY. (Poster)
- 2012 **Ali, A.H.**, & Goheen, J.R. Working to save the world's most endangered antelope, EDGE Conservation Fellows and donors conference, Zoological Society of London, UK
- 2012 **Ali, A.H.**, & Goheen, J.R. Working to save the world's most endangered antelope, Antelope Conservation in the Horn of Africa symposium, Association of Zoos and Aquariums meeting, Phoenix, AZ.
- 2011 **Ali, A.H.**, Goheen, J.R & Andanje, S. Historical range collapse of the endangered hirola antelope in Kenya and Somalia, international meeting of the Association for Tropical Biology and Conservation and the Society for Conservation Biology, Arusha, Tanzania. (Poster).
- 2011 Kivai, S.M., **Ali, A.H.**, & Nancy, N.M. Evaluation of human and non-human primate conflicts in Tana national primate reserve, international meeting of the Association for Tropical Biology and Conservation and the Society for Conservation Biology, Arusha, Tanzania. (poster)
- 2011 **Ali, A.H.**, & Goheen, J.R. Consequences of landscape change in the hirola range, Kenya, Denver Zoological Foundation, Colorado, USA (Poster).

Honors and Awards:

- 2015 Runners up, Best Conservation Video, Zoological Society for the Conservation of Species and Populations, Germany.
- 2014 Conservation Hero, Disney Worldwide Conservation Fund, USA
- 2014 Garissa County Conservation Award, Garissa County Government, Kenya.
- 2013 Hornaday Award, American Society of Mammalogists, USA
- 2013-2016 Elected Member, IUCN Antelope Specialist Group.
- 2013-2015 Elected World Conservation Fellow, Emerging World Wildlife Conservation Leaders, Wildlife Conservation Society, World Wildlife Fund, and the US Fish & Wildlife Service.
- 2011-2013 Elected EDGE Fellow, Zoological Society of London, London, UK.
- 2008-2016 Elected student member, IUCN Giraffe and Okapi Working Group.

Research and Conservation Grants (All amounts in USD):

- 2016 **Ali, A.H.** "New refuges for the world's most endangered antelope" Rainforest Trust US\$722,000
- 2016 **Ali, A.H.** "Range restoration as a tool to enhance the recovery of hirola antelope in eastern Kenya". Saint Louis Zoo, USA. \$10,000.
- 2016 **Ali, A.H.** "Range restoration as a tool to enhance the recovery of hirola antelope in eastern Kenya". Rufford Foundation, UK. \$10,000.
- 2015 **Ali, A.H.** "Unrestricted funding". Private donor, USA. \$20,000.
- 2015 **Ali, A.H.** "Unrestricted funding". Lynn Chase Wildlife Foundation, USA. \$1,000.
- 2015 **Ali, A.H.** "Unrestricted project funding", Houston Zoo, Texas. \$25,000.
- 2015 **Ali, A.H.**, Goheen, J.R & Woodroffe, R. "Going to the dogs? Understanding the declines of the critically endangered hirola antelope". Chicago Board of Trade Endangered Species Fund". \$5,000.

- 2014 **Ali, A.H.**, & Goheen, J.R. “The establishment of hirola conservation programme”, continuation grant, People’s Trust for Endangered Species, UK. \$25000.
- 2014 **Ali, A.H.**, & Goheen, J.R. “Partnering with Somali communities to save the critically-endangered hirola antelope”. Prince Bernhard Nature Fund, The Netherlands. \$15000.
- 2014 Goheen, J.R., & **Ali, A.H.** “Community based conservation for the hirola antelope, Kenya”: Disney Wildlife Conservation Fund, USA. Continuation Research, Grant. \$25000.
- 2014 **Ali, A.H.** “Understanding resource selection and movements of hirola to inform future reintroductions”, Booster grant from Rufford Grant for Nature Conservation, UK. \$20000.
- 2014 **Ali, A.H.** “Travel Grant”, Houston Zoo, Texas. \$1000.
- 2013 **Ali, A.H.** “Travel Grant”. International Fund for Animal Welfare, USA. \$1000
- 2013 Goheen, J.R., & **Ali, A.H.** “Community based conservation for the hirola antelope, Kenya”. Disney Wildlife Conservation Fund, USA. \$25000.
- 2013 **Ali, A.H.** “Landscape change and predator recolonization as factors underlying range collapse of the critically-endangered hirola antelope”. Zoological Society for the Conservation of Species and Populations, Germany. \$5000.
- 2012 Goheen, J.R, **Ali, A.H.**, & Amin, R. “Predation and range quality as factors underlying declines of hirola in Kenya. Chicago Board of Trade Endangered Species Fund”, USA. \$10,000.
- 2012 Goheen, J.R & **Ali, A.H.** “Demography and conservation of the critically-endangered hirola antelope in Ijara, Kenya”. Disney Rapid Response Wildlife Conservation Fund, USA. \$5000.
- 2012 **Ali, A.H.**, & Goheen, J.R. “Interactions between landscape change and the globally-endangered hirola antelope in northeastern Kenya”. Mohamed bin Zayed Species Conservation Fund, UAE, \$10000.
- 2012 **Ali, A.H.** “Role of predation and livestock grazing as factors underlying hirola declines in Ijara, Kenya”. Rufford Foundation, UK. \$10000.
- 2011 **Ali, A.H.** “Causes and consequences of landscape change for hirola populations in Ijara, Kenya”. People’s Trust for Endangered Species, UK. \$10000.
- 2011 Goheen, J.R., & **Ali, A.H.** “Interactions between landscape change and the globally endangered hirola antelope in northeastern Kenya”. Denver Zoological Foundation, USA. Goheen. \$7000.
- 2011 **Ali, A.H.**, & Goheen, J.R. “Consequences of landscape change and potential solutions for improvement for hirola and lesser kudu range in eastern Kenya”. Saint Louis Zoo, USA. \$10000.
- 2011 **Ali, A.H.** “Travel Grant”. Association for Tropical Biology and Conservation and the Society for Conservation Biology”. \$500.
- 2011 **Ali, A.H.** “Travel Grant”. Smithsonian Institution, USA. \$500.
- 2011 **Ali, A.H.** “Spring Fellowship, Haub Grant for Student Research and Creative Activities”. University of Wyoming. \$1000.
- 2011 **Ali, A.H.** “Summer Research Fellowship”. Berry Conservation Fund. University of Wyoming. University of Wyoming, Berry Conservation Fund. \$5000.
- 2010 **Ali, A.H.**, & Goheen, J.R. “Ecological interactions between wild and domestic ungulates in the Horn of Africa: the case of the endangered hirola antelope in eastern Kenya”. Association of Zoos and Aquariums Conservation Endowment Fund, USA. \$20000.

- 2010 **Ali, A.H.** “Community based giraffes monitoring and conservation project”. Giraffe Conservation Foundation, UK. \$4000.
- 2010 **Ali, A.H., & Goheen, J.R.** “Ecological interactions between wild and domestic ungulates in East Africa: the case of the endangered hirola antelope (*Beatragus hunteri*), Kenya”. International Foundation for Science, Sweden, \$12000.
- 2010 **Ali, A.H.** “Travel Grant”. National Museums of Kenya. \$2500.
- 2009 **Ali, A.H.** “Competition between wild and domestic ungulates in East African rangelands”. Rufford Grant for Nature Conservation, UK. \$10000.
- 2009 **Ali, A.H., & Goheen, J.R.** “Ecological interactions between wild and domestic ungulates in arid ecosystems: the endangered hirola antelope in eastern Kenya”. Mohamed bin Zayed Species Conservation Fund, UAE. \$25000.
- 2005 **Ali, A.H.** “Fellowship in mammalogy”, National Museums of Kenya. \$5000.

Professional Trainings (short courses) attended and Certifications:

- 2016 Reaching sustainable solutions through effective negotiation (Skills development in negotiation), International Union for the Conservation of Nature (IUCN), Hawaii, USA.
- 2015 Senior Management Course, Kenya School of Government, Nairobi, Kenya
- 2014 IUCN Red List Training Course (online), International Union for Conservation of Nature and the Nature Conservancy.
- 2013 Conservation Leadership Training, Zoological Society of London, London, UK.
- 2012 Conservation Leadership Training, Emerging World Wildlife Conservation Leaders, Houston Zoo, Texas USA.
- 2012 Modeling resource selection, using animal telemetry data to develop resource functions for animals in R software, University of Wyoming, USA.
- 2011 Conservation Tools Training. Zoological Society of London EDGE Fellows Workshop. Royal Chitwan National Park, Nepal.
- 2011 Species Monitoring and Conservation: Terrestrial Mammals. Smithsonian-George Mason University Global Conservation Studies Program. Front Royal Virginia, USA.
- 2010 Licensed as lead expert, Environmental Impact Assessment in Kenya, National Environment Management Authority, Kenya.
- 2008 Conceptualisation, Writing and Presentation of Scientific Proposals. Online Course. International Foundation for Science, Sweden.
- 2008 Project Planning and Evaluation in Biological Research. World Health Organization. Nairobi, Kenya.
- 2006 Environmental Journalism and Communication. Swedish International Aid Agency and Daystar University, Nairobi, Kenya.
- 2006 Participatory Methodologies: Concepts and Tools. Terra Nuova Eastern Africa/Italian agency for cooperation and development, Nairobi, Kenya.

Teaching Experience:

- 2013-2015 Teaching Assistant, Dept. of Zoology and Physiology, University of Wyoming
- ZOO 4370: Mammalogy.
- 2013-2014 Teaching Assistant, Dept. of Zoology and Physiology, University of Wyoming
- LIFE 1010: Introduction to Biology.
- 2011-2014 Guest lecturer, Haub School of Environment and Natural Resources, University of Wyoming

- HP 2151: Whose Nature?
- 2011 Guest lecturer, Dept. of Zoology and Physiology, University of Wyoming
- ZOO/BOT/ENR 4420, Conservation Biology, University of Wyoming
- 2011 Guest lecturer, Dept. of Zoology and Physiology, University of Wyoming
- ZOO 4370 Mammalogy, University of Wyoming

Manuscript Reviews:

African Journal of Ecology, The Rangeland Journal, Biodiversity & Conservation

Professional Service and Outreach:

Scientific member, National Hirola Management Committee, Kenya Wildlife Service
Founder and Director, the Hirola Conservation Programme, Kenya
International fellows mentor, Emerging World Wildlife Conservation Leaders, USA.
Scientific adviser, Ishaqbini Hirola Community Conservancy, Kenya.
Scientific adviser, Arawale National Reserve, Kenya.
Founding member and scientific adviser, Garissa Giraffe Sanctuary, Kenya.

Personnel Training and Mentorships (*Field, laboratory, and GIS technicians*).

Eliud Ogando, Undergraduate student (Environmental studies), Kenyatta University
Amos Kibara, Field technician, Hirola Conservation Programme, Kenya.
Hassan Hussein, Field technician, Hirola Conservation Programme, Kenya.
Michael Muringa, Undergraduate (Conservation Biology) student, University of Nairobi, Kenya.
Murthy Kantimahanti, The Eastern Ghats Wildlife Society, India and fellow at Emerging World
Wildlife Conservation Leaders, USA.
Siyat Buthul, Field technician, Hirola Conservation Programme, Kenya.

Professional Memberships and Networks:

American Society of Mammalogists, (member since 2010)
American Zoo and Aquarium Association, (member since 2010)
British Ecological Society, (member since 2013)
East African Wildlife Society, (life member since 2002)
Ecological Society for Eastern Africa (member since 2008)
IUCN SSP Antelope Specialist Group, (member since 2013)
IUCN SSP Giraffe and Okapi working Group, (student member since 2008)
National Hirola Management Committee, (life member since 2005)
Nature Kenya, (member since 2002)
Society for Conservation Biology, (member since 2010)
Society for Conservation GIS, (member since 2010)

Professional References:

Academic

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Agency

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Personal

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