

IREENE ROSE A. MADINDOU

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PROFILE

I am a zoologist studying the lives of birds and their survival tactics in changing habitats and landscapes. I love to engage in studies that restore mosaic habitats for man and wildlife. I have worked with Nature Kenya and the National Museums of Kenya in the Important Bird Areas Program in research and advocacy for the preservation of bird species, their habitats and sustainable livelihoods for humans. This, in conjunction with key environmental agencies and 14 community environment groups. I am trained in field research, report writing and policy briefs preparation. In setting up community environmental monitoring groups, I was part of a team that taught on the impacts of human interaction with nature and the need to restore and heighten productivity of landscapes all over Kenya. I am a trainer in using scientifically developed monitoring protocols and have used them to carry out research projects on vulnerable bird species and on the impacts of changing landscapes on birds and their diets. I look for opportunities to teach and mentor others, old or young to be nature lovers, to be entrepreneurs, and conservationists in their own unique way. I do simple ecological modeling to project the repercussions of destroying nature and the benefits of preserving natural resources for man and wildlife. I look forward to working with organizations that promote environmental education and citizen science research using sound scientific protocols for holistic conservation of wildlife.

Currently, I coordinate the waterfowl census that is carried out bi-annually on Kenyan lakes and smaller wetlands. I am also a freelance consultant and just finished consulting for the World Research Institute in the Forest and Landscape Restoration program in Kenya from August to December 2018.

WORK EXPERIENCE

2018 September- Present National Museums of Kenya

Researcher in bird species and habitats, Ornithology Section, Zoology department, National Museums of Kenya. National Waterfowl Census Coordinator.

2013 July-Present Volunteer Project Officer Ecological Society for Eastern Africa

- Developing annual work plan for the society
- Fundraising
- Developing a database of all ecologists in the region
- Membership recruitment
- Communication to members
- Represent society in meetings with government departments and other societies

2006 July. — 2010 June-Important Biodiversity Areas (IBA) Research Fellow

- Assist Ornithology Department research scientists and Nature Kenya staff with the development and application of site-and-habitat-specific monitoring protocols.
- Compile, check, analyze and report on monitoring data collected at individual sites.

- Handle administrative issues, correspondence and queries connected with the Important Bird Areas Program.
- Compile additional information on present and potential Important Bird Areas and assist in updating computerized and paper databases, in liaison with the other IBA research fellow, Nature Kenya Sites Conservation officers and the Conservation Promotion officers with the assistance of the Ornithology Department staff and interns.
- Assist in compiling information and refining species accounts for the regional Red Data List.
- Assist to develop and maintain the network of amateur birdwatchers who contribute information to the Department's biogeographic database and the East Africa Natural History nest record scheme.
- Help to provide technical input for formal and informal training, site monitoring and surveys, particularly of potential Important Bird Areas, including proposal preparation, expedition logistics and fieldwork.
- To assist Nature Kenya and other National Museums of Kenya departments to implement a process of taxonomic broadening of priority-setting(moving from Important Bird Areas to Important Biodiversity Areas).
- Co-ordinate the department's series of scientific seminars.
- Help in the development and make more productive the existing links between the department and Nature Kenya and thus between professional and amateur ornithology in Kenya.
- Training coordinator in charge of education and training of research interns and students on attachment.

Outputs

- Co-authored the Status and Trends reports for 2006, 2007 and 2008 for the Important Bird Areas programme.
- Mentored and supervised 7 students from Moi University and subsidiary colleges in proposal writing, report writing and in carrying out small projects.
- Spearheading African Grey Parrot research in wildlife populations, rehabilitation possibilities and trade in Kenya.

February 2012-May 2013 Lead investigator-Morphometric surveys on the Common Stonechat in Kenya and Tanzania.

December 2007-March 2009: Co-investigator-Some conservation aspects of the Grey Parrot in Kakamega Forest, Kenya: assessment of trade and habitat destruction effects.

January- February 2007: Research assistant-Clarke's Weaver population surveys in Dakatcha Woodlands, Coastal Kenya.

September 2006: A study on the Population and Distribution status of two globally threatened bird species: Lead investigator-the Sokoke Scops Owl and the co-investigator-Clarke's Weaver in Dakatcha Woodlands, Coastal Kenya.

February 10th-February 20th, 1st-31st May, January 10th-20th January 2005: Research assistant-Determinants of the family structure and family dynamics in Grey-capped Social Weavers

Pseudonigrita arnaudi by Prof. Stephen Emlen of Cornell University, U.S.A. at Mpala Research Centre, Laikipia, Kenya.

June 13th-16th June 2005: Research assistant-IFS Sharpe's' Longclaw Breeding Success project in Kinangop, an Important Bird Area, Kenya.

January 2006: Research assistant-Bi-annual Water Fowl Census in Central Kenya and Nairobi Wetlands;

October 27th- November 9th 2004: Research assistant-A preliminary survey of the Birds of Ndere Island National Park.

March 15th-May 31st 2006: Assistant course coordinator, Fundamentals of Ornithology annual course, held at Hell's Gate, Naivasha 20th- 27th April.

August 8th-October 27th 2005: Assistant course coordinator, Tropical Biology Association, Africa office.

April 2001- August 2003: Office Assistant, Registrar's Office, University of Eastern Africa, Baraton, Kenya.

September-December 2003: Office assistant, School of Education, University of Eastern Africa, Baraton, Kenya.

January-March 2003: Lab Assistant, Department of Biological Sciences, University of Eastern Africa, Baraton Kenya.

EDUCATION

University of Nairobi, Kenya

2018: Master of Science, Conservation Biology

University of Eastern Africa, Baraton, Kenya

2005: Bachelor of Science (Zoology)

Other trainings

March 17th-21st 2014: Training on use of Advanced Open Source GIS held by CHIESA Project at ICIPE Duduville, Nairobi, Kenya.

February 25th-28th 2013: Training on Ecological Niche Modelling held by Biodiversity Informatics Curriculum at ICIPE, Duduville, Nairobi, Kenya.

October 8th-12th 2012 : Training on Experimental design and analysis; using GENSTAT and R at Institute of Primate Research, Karen, Kenya.

December 13th-15th 2010: Training on Sampling and Analytical Methods by World Conservation Society at Mpala Research Centre, Laikipia, Kenya.

August 6th-13th 2008: Training on Geographical Information Systems using the BIOTAEastGIS Tool at the National Museums of Kenya, Nairobi, Kenya.

July 23rd-24th 2007: Training in Geographical Information Systems on Fast-Tracking with ArcGIS for Natural Resources by Juniper GIS Services USA at the Regional Centre for Mapping and Remote Sensing in Nairobi, Kenya.

May 23-5th June 2007: Earthwatch CRI Project Samburu. Earthwatch Fellowship Training on Grevy Zebra and Vegetation data collection techniques funded by Rio Tinto, Earthwatch Institute, Europe.

February 19th-22nd 2007: Training of Trainers in the Important Bird Areas Programme, Naivasha, Kenya.

October 15th-29th 2006: Training on Tools of monitoring and assessing biodiversity by Monitoring and Assessment of Biodiversity Program Smithsonian Institution at Mpala Research Centre, Laikipia, Kenya.

October 28th-December 2nd 2005: Tropical Biology Association field course in tropical ecology and conservation in Kirindy Forest National Park, Morondava, Madagascar. Conducted through a series of lectures, seminars and workshops. Covered current concepts and techniques in ecology, conservation biology, experimental design and sampling methods, and included a two-week independent research project.

SKILLS

Good computer operating skills, Powerpoint, ArcGIS, Excel, R, GENSTAT.

CONFERENCES, WORKSHOPS AND SYMPOSIA

2013 28th-29th August Planning and coordinating committee of the 6th Ecological Society of Eastern Africa Scientific Conference held at Kenya School of Government, Nairobi, Kenya

2013 June 24th – 26th Participated in Conference on Climate Change Innovation in Africa: - Climate for Sustainable Development, Strathmore University, Nairobi, Kenya.

2010 May 19th-21st Assisted in planning and coordination of the 3rd Ecological Society of Eastern Africa Scientific Conference held at MultiMedia University, Nairobi, Kenya.

2010 February 5th Planned and conducted a consultative workshop on the African Grey Parrot: possibilities of rehabilitation and re-introduction in to the wild

2009 August 4th -8th Conducted field trainings on data collection of habitat, species and human activities; training on eco-friendly income-generating activities in the Cherangani Hills Forest water tower in Western Kenya with local environmental community groups.

2009 July 4th-8th Conducted a monitoring training workshop for Sabaki local community environmental group on habitats, sites and birds species with special reference to conservation of the Sabaki River Estuary and exploitation of the water resources by humans and wildlife.

2009 January 26th-27th Facilitator of a National Bird Conservation and Research Strategy Workshop for Kenyan Ornithology at the Kenya Wildlife Service Headquarters, Nairobi, Kenya.

2008 July 7th-11th Conducted a Monitoring Training workshop on Habitats and Bird Species in Cherangani hills Forests for local community environmental groups.

2008 June 23rd-26th Conducted and participated in a Familiarization, Experience sharing and Training of officers in Monitoring of Important Biodiversity Areas using birds as indicators in Kenya Wildlife Service Training Institute, Naivasha, Kenya.

2007 October: Attended First Ethno-Ornithological Workshop in Kenya, National Museums of Kenya, Nairobi, Kenya.

2007 July 19th-24th Attended a conference at UNEP, Nairobi and training in Geographical Information Systems on Fast-Tracking with ArcGIS for Natural Resources by Juniper GIS Services USA at the Regional Centre for Mapping and Remote Sensing in Nairobi, Kenya.

2007 April 18th-20th Attended the Kenya Wildlife Service conference held at Safari Park Hotel and presented a poster on Important Bird Areas Program Outputs.

2007 March 22nd : Participated in African Waterfowl workshop: Initiatives to create efficiency and strategies to produce better results, way forward at the National Museums of Kenya, Invertebrate Zoology Lab.

2006 July: Organized and carried out surveys and had a Workshop on Grey-crowned Cranes Monitoring and Counts, and attitudes towards the birds at Kitale National Museum, Western Kenya.

2006 November 15th-17th: National Museums Annual Scientific Conference. Co-presented a talk on the two-tiered Important Birds Area monitoring programme.

PUBLICATIONS

Pocock, J.O., Roy, H.E., August, T., Kuria, A. Madindou, I., Barasa, F., Bett, J., Githiru, M., Kairo, J., Kimani, J., Kinuthia, W., Kissui, B. (2018). Developing the global potential of citizen science: Assessing opportunities that benefit people, society and the environment in East Africa. *Journal of Applied Ecology*, 2018:1-8. DOI:10.1111/1365-2664.13279.

Rowan, O. M., Michael, R. P., Rutledge, S. B., Yilma, D. A., Nathaniel, D. A., Augustus, A., Dieudonné, B., Kadiri, S. B., Nancy, B., Joost, B., Moussa, S. D., Mihret, E., Roger, C. F., Jerry, G., Philip, H., Lars, H. H., **Madindou**, Fiona, M., Jérôme, M., Mulwa, R., Reuleaux, A., Symes, C., Tamungang, S., Taylor, S., Valle, S., Waltert, M. and Wondafrash, M. (2014). Research and conservation of the larger parrots of Africa and Madagascar: a review of knowledge gaps and opportunities, Ostrich: *Journal of African Ornithology*, **85**:3, 205-233, DOI: 10.2989/00306525.2014.948943

Kiragu, M. A., Butchart, S. H. M., Munyekenye, F. B. Bennun, L. A., Evans, M. I., Fishpool, L. D., Kanyanya, C., E. **Madindou**, I., Machekele, J., Matiku, P., Mulwa, R., Ngari, A. Siele, J. and Stattersfield, A. J. (2010). Tracking trends in key sites for biodiversity: a case study using Important Bird Areas in Kenya. *Bird Conservation International* **20**:215–230. BirdLife International.

Metcalf, D., and **Madindou, I.R. et al** (2007). Distribution and population structure of *Adansonia rubrostipa* in dry deciduous forest in Western Madagascar, Kirindy. Forest (Tropical Biology Association. 05/4) Madagascar. *Journal of East Africa Natural History*. Vol 45 Page 464-468 Blackwell Publishing Ltd.

Kariuki N., Kuria, A. and **Madindou, I.** (2006) Birds of Ndere Island National Park, Kenya A Preliminary survey. *Research reports for the Centre of Biodiversity, National Museums of Kenya. Ornithology* 63.

Kariuki N., and **Madindou, I Kuria, A.,** (2008) Birds of Ndere Island National Park, Kenya A Preliminary survey. *Scopus Vol 27 Page 32-40*. Colour Print Ltd Kenya.

Barasa F.M., and **Madindou I., et al** (2006) Kenya's Important Bird Areas. Status and Trends Reports. Nature Kenya.

Barasa F.M. and **Madindou I., et al** (2007) Kenya's Important Bird Areas. Status and Trends Reports. Nature Kenya

Barasa F.M. and **Madindou I., et al** (2008) Kenya's Important Bird Areas. Status and Trends Reports. Nature Kenya

Adhola T.E. and **Madindou I., et al** (2009) Kenya's Important Bird Areas. Status and Trends Reports, Nature Kenya

REFEREES:

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Dr. Peter Njoroge, Head, Ornithology Section, Zoology Department, National Museums of Kenya P.O. Box 40658-00100, GPO Nairobi, Kenya; Cell phone : +254-724521770; email: pnjoroge@museums.or.ke; peter.njoroge2306@gmail.com

Dr. Ronald Mulwa, Senior Researcher, Department of Zoology National Museums of Kenya P.O. Box 40658- 00100, GPO Nairobi, Kenya; +254 - 722-499841; e-mail: rokmulwa@gmail.com

Dr. Paul Kariuki Ndang'ang'a, Species Programme Manager, BirdLife International Africa Partnership Secretariat-Nairobi P.O. Box 3502-00100 Nairobi, Kenya; Cell phone: +254 722473851; email: kariuki.ndanganga@birdlife.org