

CURRICULUM VITAE

Dino Joseph Martins



Date of Birth 14th March 1977
Nationality Kenyan

Current Positions:

Executive Director, Mpala Research Centre P O Box 555 Nanyuki 10400 Kenya.
Associate Research Scholar and Lecturer, Princeton University
Research Assistant Professor, Turkana Basin Institute, Stony Brook University.
Chair, Insect Committee of Nature Kenya, The East Africa Natural History Society P.O. Box 44486 GPO 00100 Nairobi Kenya.
Research Associate, Harvard Museum of Comparative Zoology, Cambridge MA & Smithsonian Institution, Washington DC.
Coordinating Lead Author, Intergovernmental Platform on Biodiversity and Ecosystems (UNEP-UNDP-UNESCO-FAO)

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Education

2011 PhD Organismic and Evolutionary Biology, Harvard University.
1999 BA Anthropology (with distinction), Indiana University, Bloomington IN, USA.

Current Research

2013- Pastoralism and biodiversity in the Horn of Africa
2013- Bees, communities and pesticides in East Africa
2012- Ecology and biodiversity of bees and connection with human livelihoods
2012- Ecology and behaviour of insect vectors of disease (mosquitoes, sandflies)
2011- Agriculture and diversity in termites and harvester ants
2006- Ecology and natural history of ant-plants
2005- Co-evolution of ant-acacia interactions and diversification
2004- Ecology and foraging patterns of harvester ants in East Africa
2004- Pollination ecology and conservation in East Africa

Research – Work Experience

2013-2014 Academic Field Director (Field School), Turkana Basin Institute
2005-2007 Researcher FAO Pollinator programme on Coffee (Ethiopia), Vanilla (Uganda), Pigeon pea (Tanzania) and Papaya (Kenya).
2003 Assessment of pollinators on *Acacia tortilis* and papaya (*Carica papaya*) as part of a FAO-Rapid Assessment of Principle Crop Pollinators.
2002- 2003 Traditional uses of grasses in East Africa ICIPE-GEF.
1999 Researcher ACT Brazilian Amazon project: vegetation and household interviews.
1997-1999 Researcher at the Anthropological Centre for Research and Training in Global Environmental Change, Bloomington, Indiana (Prof. E. Moran & E. Ostrom).
1996-1997 Researcher -Japanese Macaque Project AZA-IUPUI (Prof. R. Ward).

Management and Coordination

2009-2010 Coordinator for the Biodiversity Survey of Nairobi City Park Forest
2004 Coordination and development of field site visits for the Eco-Agriculture Initiative.
2004 Coordination UNEP-GEF-FAO-implemented project on Conservation and Management of Pollinators.
2003 Researcher for the Goldman Prize, development of nominations.
2002 Coordinator, African Pollinator Initiative at ELCI.
1991-1994 Docent and guide, Kitale Museum, Kenya (planning and development of displays, guiding school groups and other visitors).

Teaching

2017 Vector Biology: Princeton Ecology and Evolution
2011-2017 Ecology and Biodiversity of the Lake Turkana Basin (for the Turkana Basin Institute and Stony Brook University).
2010 Conservation and grasslands for Princeton University Field Course assistant
2007, 2008 Teaching Fellow for ‘Animal Behaviour OEB 57’ Harvard University
2006 ‘Ecology of the Great Lakes & African Savannahs’ for Georgetown University
2000-2002 University lecture series for East Africa Natural History Society
2003 Guide and high school teacher training Kakamega Forest Guides Association
2004-2005 Ecology and natural history training of guides for LaFarge Ecosystems
1995-1996 Biology relief teacher/tutor Uasin Gishu High School, Eldoret, Kenya.

Writing & Editing

2004 Editor of *Naturalist’s Corner*, for East Africa Natural History Society.
2002-2003 Research and writing of ecology, biodiversity and conservation section to guidebooks for the National Parks of Kenya, for the Kenya Wildlife Service.
1999 Writer for *Swara* magazine, the Journal of the East African Wildlife Society
1999-2004 Writer for *Ecoforum* magazine – an environmental publication.
2000-2001 Editor, Journal of East African Natural History.

Volunteer/Community

2013 Trustee, Tsavo Conservation Research and Education Trust
2010 Volunteer vice-chairperson Friends of Nairobi National Park
2006- Expedition leader Harvard Museum of Natural History

2005- Chair, Insect Committee, East African Natural History Society
2004-2005 Expedition leader Kenya Museum Society,
2003 Coordinator for Community Conservation programmes for the Global Greengrants Foundation for Tasike-Setanda Wetlands, Kakamega Forest Guides Association and Malindi Marine Association.
2000-2005 School lecture/nature walk program – Nature Kenya
1996-1999 Public school nature walks – Eagle Creek Foundation/Greenways Foundation

Recent Grants

2007-2014: People, Plants and Pollinators (raised > 200,000 \$) for work with schools, community groups, grassroots conservation and monitoring (from the Whitley Fund for Nature, National Geographic and Kenya Horticultural Society).
2013 CO-PI Managing on-farm biodiversity for improved yields with KALRO (45,000 \$)
2012- Collaborator: Buffel Grass Endophyte and Biodiversity Project (250,000 \$)
2010 Sustainable Farming Models for the Sahel (50,000 \$ from National Geographic).
2008 National Geographic CRE for Ant-Plant Interactions (17,500 \$).
2007-2014 CO-PI for GEF-UNEP-FAO Global Pollinator Project (1.7 million \$).
2011-2012 Mosquito Biology and climate/demography (SBU Seed Grant 10,000 \$).
2007- Collaborator: Evolution and Diversification of ant-associated *Lepidochrysops* in Africa (450,000 Euros: Government of Norway).

Public Education and Awareness

2014- Grasses of Kenya revision including ecology and illustrations.
2013 Illustrations for Upland Kenya Wildflowers and Ferns
2008 Illustration of Nature Kenya – EANHS 100th anniversary stamps
2007 Illustrations for Tsavo Trilogy book
2002-2003, Design and illustration of posters for the Insect Committee of Nature Kenya, and the Committee's Live Insect Exhibit at NMK.
1999 Development of promotional and fundraising postcards for the City Greenways Foundation, USA.
1996-2003 Paintings included in the National Audubon's Society annual raffle and fundraiser for neotropical migrant songbird rainforest habitat conservation.

Languages

Fluent in English and Kiswahili, limited French, Portuguese, Turkana and Maasai.

Awards/Fellowships

2015 Whitley Gold Award for Conservation
2014 Honorary Life Member: Kenya Horticultural Society
2013 Fellow of the Linnean Society of London
2011 National Geographic Emerging Explorer
2009 Whitley Award for Conservation
2008 Harvard University Derek Bok Distinction in Teaching Award
2005 Ashford Fellow in the Natural Sciences, Harvard University.
2004 Smithsonian Institution SIWC – MRC Fellowship.
2002 & 2003 Peter Jenkins Award for Excellence in African Environmental Journalism.

Selected Publications: Articles:

Baker, C.C., **Martins, D.J.**, Pelaez, J.N., Billen, J.P., Pringle, A., Frederickson, M.E. and Pierce, N.E., (2017). Distinctive fungal communities in an obligate African ant-plant mutualism. In *Proc. R. Soc. B* (Vol. 284, No. 1850, p. 20162501). The Royal Society.

Packer, L. and **D. J. Martins** (2015). A new species of *Samba* s. str. (Hymenoptera: Melittidae) from the Turkana Basin, Kenya with observations on the function of the metatibial spur in females. *ZooTaxa* 3918 (2): 261-272.

Gemmill-Herren, B., K. Aidoo, P. Kwapong, **D. J. Martins**, W. Kinuthia, M. Gikungu, C. Eardley (2014). Priorities for Research and Development in the Management of Pollination Services for Agriculture in Africa. *Journal of Pollination Ecology*, 12(6): 40-51.

Martins, D. J., Miller, S. E., Cords, M., Hirschauer, M. T., & Goodale, C. B. (2014). Observations on an Irruption Event of the Moth *Achaea catocaloides* (Lepidoptera: Erebidae) at Kakamega Forest, Kenya. *Journal of East African Natural History*, 103(1), 31-38.

Martins, D. J., Collins, S. C., Congdon, C., & Pierce, N. E. (2013). Association between the African lycaenid, *Anthene usamba*, and an obligate acacia ant, *Crematogaster mimosae*. *Biological Journal of the Linnean Society*, 109(2), 302-312.

Martins, D. J., & Johnson, S. D. (2013). Interactions between hawkmoths and flowering plants in East Africa: polyphagy and evolutionary specialization in an ecological context. *Biological Journal of the Linnean Society*, 110(1), 199-213.

Martins, D. J. (2010) Not All Ants are Equal: Obligate acacia ants provide different levels of protection against mega-herbivores. *African Journal of Ecology* **48** 1115-1122.

Martins, D. J. (2010) Pollination and seed dispersal in the endangered succulent *Euphorbia brevitorta*. *Journal of East African Natural History* **99**(1).

Martins, D. J. (2009). Differences In Odonata Abundance And Diversity In Pesticide-Fished, Traditionally-Fished And Protected Areas In Lake Victoria, Eastern Africa (Anisoptera). *Odonatologica* 38(3): 247-255.

Martins, D. J. (2009). Pollination and facultative ant-association in the African leopard orchid *Ansellia africana*. *Journal of East African Natural History* **98**(1): 67-77

Martins, D. J. and S. D., Johnson. (2009). Distance and quality of natural habitat influence hawkmoth pollination of cultivated papaya. *International Journal of Tropical Insect Science* **29**: 114-123.

Martins, D.J., & S.D. Johnson (2007). Hawkmoth pollination of aerangoid orchids in Kenya with special reference to nectar gradients in the floral spurs. *American Journal of Botany* **94**: 650-659.

Martins, D. J. (2008). Pollination observations of the African violet in the Taita Hills, Kenya. *Journal of East African Natural History* **97**: 33–42.

Martins, D. J., (2004). Foraging patterns of managed honeybees and wild bee species in an arid African environment: ecology, biodiversity and competition. *International Journal of Tropical Insect Science* 24 (1) 105-115.

Martins, D. J. and A. Powys (2003). A Notable Record of Seed Set in an Endemic Kenyan Acacia. *Nature East Africa, the EANHS Bulletin* 33

Book chapters:

Martins, D. J. (2013). People, plants and pollinators: uniting conservation, food security, and sustainable agriculture in East Africa. In *Conservation Biology: Voices from the Tropics* Sodhi, N. S., Gibson, L., & Raven, P. H. (Eds.). (2013). John Wiley & Sons. Pp 232-238.

Martins, D. J. (2011). Repercussions of pesticides (including carbofuran) on nontarget, beneficial insects and use of insects in forensic analyses in Kenya. In *Carbofuran and Wildlife Poisoning: Global Perspectives and Forensic Approaches* (Ed. N. Richards), John Wiley & Sons Ltd., Chichester UK.

Martins, D. J. (2008). Pigeonpeas in Mwanza district, Tanzania: natural vegetation and traditional building materials provide resources for bees on-farms. In *Tools for conservation and use of pollination services*. Food and Agricultural Organisation of the United Nations, Rome Italy.

Gemmill-Herren, B., C. Eardley, J. Mburu, W. Kinuthia & **D. J. Martins.** (2007) Pollinators: Biodiversity and Ecosystem Management in Ecoagriculture Landscapes. In S. Scherr & J. A. McNeely Eds. *Farming with Nature: The Science and Practice of Ecoagriculture*. Island Press, USA.

Martins, D. J. (2007). Acacia Pods in Kenya, In *Crops, Browse and Pollinators in Africa: An Initial Stock-Taking*. Food and Agricultural Organisation of the United Nations. Rome, Italy.

Blogs/Media:

discoverpollinators.org

<http://newswatch.nationalgeographic.com/author/dinomartins/>

<http://www.turkanabasin.org/author/dinomartins/>

<http://ed.ted.com/lessons/the-human-and-the-honeybee-dino-martins>