

# CURRICULUM VITAE

Emanuel H. Martin, PhD

Protected Area Management and Wildlife Conservation Scientist

College of African Wildlife Management, Mweka

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**Personal information:** Date of Birth: 24/12/1977

Place of Birth: Kilimanjaro

Gender: Male

Marital status: Married

**Languages:** Kiswahili (Fluent), English (Fluent), Setswana (Good), German (Basic)

## Education Background:

Year	Institution attended	Award
2012 - 2016	Sokoine University of Agriculture	PhD (Wildlife Management)
2007 - 2009	University of Klagenfurt, Austria	Msc. Management of Protected Areas
1999 - 2002	Sokoine University of Agriculture	Bsc. Wildlife Management
1996 - 1998	Mazengo High School	Advanced Certificate in Secondary Education
1992 - 1995	Kibo Secondary School	Ordinary Certificate in Secondary Education
1985 - 1991	Arusha Chini Primary School	Certificate of Primary Education

## Employment History and achievement:

Year	Organization	Position	Responsibilities
2014 – to date	College of African Wildlife Management, Mweka (CAWM)	Lecturer	<ul style="list-style-type: none"><li>• Conduct teaching to undergraduates</li><li>• Conduct research</li><li>• Supervise students' research works</li><li>• Develop curricular for the course programs</li><li>• Conduct consultancies in the field of wildlife</li></ul>

2009 - 2014	Tanzania Forest Conservation Group	Site Manager for TEAM Project, Udzungwa Mountains National Park,	<ul style="list-style-type: none"> <li>• Handling all financial matters related to the project</li> <li>• Plan all the project activities including research works</li> <li>• Handling all personnel staff as well as fleet maintenance</li> <li>• Conduct monitoring programs on mammals, vegetation and climate</li> </ul>
2003 - 2007	Mokolodi Nature Reserve, Botswana	Conservation Officer	<ul style="list-style-type: none"> <li>• In-charge of the Conservation department</li> <li>• Supervise all the rangers and animal sanctuary team</li> <li>• Plan all the department works</li> <li>• Conduct both flora and fauna monitoring works in the Park</li> <li>• Member of Botswana Rhino Monitoring Committee</li> </ul>

#### Other responsibilities

Year	Organization	Position	Responsibilities
March 2020 to date	CAWM	Ag. Deputy Rector, Planning, Finance & Administration	<ul style="list-style-type: none"> <li>• Head of the Division of Planning Finances and Administration</li> <li>• Supervising and maintaining acceptable standards of discipline of staff accordingly</li> <li>• Be responsible to Rector for the general administration, personnel and financial matters</li> </ul>
September 1, 2019 to March 2020	CAWM	Head of Department of Research, Consultancy and Post Graduate Studies	<ul style="list-style-type: none"> <li>• Promote, coordinate and monitor all research activities and consultancy works conducted by the College</li> <li>• Identify opportunities for College research work including funding from external sources</li> </ul>
2016 to 2019	CAWM	Contract Manager	<ul style="list-style-type: none"> <li>• Ensuring that, all contracted works are adhering to agreed terms and conditions of the contract</li> <li>• Advice the management on various issues related to contractual works</li> <li>• Evaluate and recommend various contracted works in the College</li> </ul>
2017 to date	CAWM, Bee Pollinator Monitoring Project	Director	<ul style="list-style-type: none"> <li>• Coordinating all the project works</li> <li>• Supervise data collection for the project</li> <li>• Ensuring proper financial management of the project</li> </ul>

### Peer Reviewed Scientific Papers and Book Chapters

- Gideon A. Mseja, Beatrice B. Furael, Lyakurwa G.J., & **Emanuel H. Martin (2020)**. Herbaceous Vegetation Communities Around Lake Manyara - Tanzania: Response to environmental gradients. *Nature Conservation Research* 5(4):55-64. <https://dx.doi.org/10.24189/ncr.2020.056>
- W. Edwin Harris, Selvino R. de Kort, Caroline M. Bettridge, **Emmanuel Martin**, Joana Borges, Bradley Cain, Hamadi I. Dulle, Robert Fyumagwa, Donatua Gadiye, Martin Jones, Ladislaus Kahana, Julius Kibebe, Jafari R. Kideghesho, Fidelcastor F. Kimario, Alex Kisingo, Francis Makari, et al. **(2020)**. A learning network approach to resolve conservation challenges in the Ngorongoro. Conservation Area. *Journal of African Ecology* 00:1-6. DOI: 10.1111/aje.12815
- Bruno Cid, Chris Carbone, Fernando A.S. Fernandez, Patrick A. Jansen, J. Marcus Rowcliffe, Timothy O'Brien, **Emanuel Martin**, Badru Mugerwa, Francesco Rovero, Julia Salvador, Fernanda Santos, Wilson R. Spironello, Soraya Wijntuin, Luiz Gustavo R. Oliveira-Santos **(2020)**. On the scaling of activity time in tropical forest mammals. *Oikos* 129(5):668-676  
<https://doi.org/10.1111/oik.07022>
- Emanuel H. Martin**, Perry J. Hardin, Ryan R. Jensen, Rehema A. Shoo, and Alex Kisingo **(2020)**. Land Cover and Landscape Changes in the Kwakuchinja Wildlife Corridor adjacent to Road A-104, 2002 to 2017. Springer Nature Switzerland AG 2020 J.O., Durrant et al (eds), Protected Areas of Northern Tanzania. *Geotechnologies and the Environment* 22, [http://doi.org/10.1007/978-3030-43302-4\\_9](http://doi.org/10.1007/978-3030-43302-4_9)
- Emanuel H. Martin**, Perry J. Hardin, Ryan R. Jensen, Glory Sumaye, Abel Mtui, Rehema A. Shoo, and Emanuel Stephan **(2020)**. Using MODIS Yearly Land Cover Data to Study Vegetation Changes in Mkomazi National Park, 2001 to 2013. Springer Nature Switzerland AG 2020 J.O., Durrant et al (eds), Protected Areas of Northern Tanzania. *Geotechnologies and the Environment* 22, [http://doi.org/10.1007/978-3030-43302-4\\_11](http://doi.org/10.1007/978-3030-43302-4_11)
- Gideon A. Mseja, Alex W. Kisingo, Emmanuel Stephan and **Emanuel Martin (2020)**. Dry Season Wildlife Census in Mkomazi National Park, 2015. Springer Nature Switzerland AG 2020 J.O., Durrant et al (eds), Protected Areas of Northern Tanzania. *Geotechnologies and the Environment* 22, [http://doi.org/10.1007/978-3030-43302-4\\_10](http://doi.org/10.1007/978-3030-43302-4_10)
- Francesco Rovero, **Martin Emanuel**, Christopher Sutherland, Douglas Sheil, Jorge Ahumada, Jansen, Patrick, Patricia Alvarez, Kelly Boekee, Marcela Lima, & Melissa Rosa **(2019)**. A standardized assessment of forest mammal communities reveals consistent functional composition and vulnerability across the tropics. *Ecography* 43(1) 75-84

- Steidinger, Brian, Francesco Rovero, **Martin Emanuel**, Christopher Sutherland, Douglas Sheil, Jorge Ahumada, Jansen, Patrick, Patricia Alvarez, Kelly Boekee, Marcela Lima, & Melissa Rosa et al., **(2019)**. Climatic controls of decomposition drive the global biogeography of forest tree symbioses. *Nature*
- Emanuel H. Martin**, Ryan R. Jensen, Perry J. Hardin, Alex W. Kisingo, Rehema A. Shoo & Abraham Eustace. **(2019)**. Monitoring temporal change in Tanzania's Kwakuchinja Wildlife Corridor using multi-date satellite imagery and open source tools. *Applied Geography 110 (2019) 102051*
- Marcos B. Carlucci, Guilherme D. S. Seger, Douglas Sheil, Iêda L. Amaral, George B. Chuyong, Leandro V. Ferreira, Ulisses Galatti, **Emanuel H. Martin** et al **(2017)**. Phylogenetic composition and structure of tree communities shed light on historical processes influencing tropical rainforest diversity. *Ecography 40: 521–530*
- Lydia Beaudrot, Jorge A. Ahumada, Timothy O'Brien, Patricia Alvarez-Loayza, Kelly Boekee, Ahimsa Campos-Arceiz, David Eichberg, Santiago Espinosa, Eric Fegraus, Christine Fletcher, Krisna Gajapersad, Chris Hallam, Johanna Hurtado, **Emanuel H. Martin**, et al **(2016)**. Standardized Assessment of Biodiversity Trends in Tropical Forest Protected Areas: The End Is Not in Sight. *PLoS Biology*. DOI: 10.1371/journal.pbio.1002357
- Martin E. H.**, Ndibalema V.G. and Rovero F. **(2016)**. Does seasonal variation affect tropical forest mammals' occupancy and detectability by camera traps? Case study from the Udzungwa Mountains, Tanzania *African Journal of Ecology* doi:10.1111/aje.12312
- Lingjing Liang; Thomas W. Crowther; Nicolas Picard; Susan Wiser; Mo Zhou ;Giorgio Alberti ; Ernst-Detlef Schulze; A. David McGuire; Fabio Bozzato; Hans Pretzsch; Sergio de-Miguel; Alain Paquette; **Emanuel H. Martin** et al **(2016)**. Positive biodiversity-productivity relationship predominant in global forests. *Science* 354 (6309) DOI: 10.1126/science. aaf8957
- Martin E. H.**, Cavada N., Ndibalema V.G. and Rovero F **(2015)**. Modeling fine scale habitat associations of medium to large size forest mammals in Udzungwa Mountains National Park, Tanzania. *Tropical Zoology* 28 (4):137-151.
- Rovero F., **Martin E.**, Rosa M., Ahumada J. A. and Spitale D. **(2014)**. Estimating Species Richness and Modelling Habitat Preferences of Tropical Forest Mammals from Camera Trap Data. *PLoS ONE* 9(7): e103300.
- Rovero F., Collett L., Ricci S., **Martin E.**, Spitale D. **(2013)**. Distribution, occupancy and habitat associations of the grey-faced sengi (*Rhynchocyon udzungwensis*) as revealed by camera traps. *Journal of Mammalogy* 94(4), 792–800. doi:10.1644/12-MAMM-A-235.1
- Slik Ferry, Paoli Gary, McGuire Krista, Amaral Ieda, Barroso Jorcely, **Martin Emanuel**, et al., **(2013)**. Large Trees drive forest aboveground biomass variation in moist lowland forests across the tropics. *Global Ecology and Biogeography* 24. 2-8789

**Emanuel H. Martin** & Francesco Rovero (2013). Assessing Tropical Mammal Communities Using Camera Trapping and Occupancy Analysis: Case Study from the Udzungwa Mountains of Tanzania. TAWIRI Proceedings.

**Martin, E.H. (2012).** Reasons behind absence of African lion (*Panthera leo*) in Arusha National Park, Tanzania. In: *Innovative approaches to manage protected areas*. (Edited by Getzner, M. and Jungmeier, M.) Heyn: 20-23.

Ahumada, J., Faresin, C., Gajapersad, K., Hallam, C., Hurtado, J., **Martin, E.**, McWilliam, A., Mugerwa, B., O'Brien, T., Rovero, F., Sheil, D., Spironello, W., Winarni, N., and Andelman, S. (2011). Community structure and diversity of tropical forest mammals: data from a global camera trap network. *Philosophical Transactions of the Royal Society B: Biological Sciences* 366: 2703–2711.

### Selected Conference participation

“12th Tanzania Wildlife Research Institute Scientific Conference”, Arusha, Tanzania (December 2019). *Martin, E., & Badru M. Presented paper:* Standardized mammal monitoring in African protected areas: case studies from Bwindi and Udzungwa Mountains national parks

*Students Conference on Conservation Science*, Cambridge, United Kingdom (March 2017). Presented Paper. **Martin, E.**, Ndibalema V. and Rovero F. Effects of disturbance on Tanzanian forest mammals

29<sup>th</sup> *International Congress for Conservation Biology*. Montpellier, France (August 2015). Poster. **Martin, E.**, Ndibalema V. and Rovero F. Modeling fine scale habitat associations of medium to large size forest mammals in Udzungwa Mountains National Park, Tanzania.

“9<sup>th</sup> Tanzania Wildlife Research Institute Scientific Conference”, Arusha, Tanzania (December 2013). **Martin, E.**, & Rovero, F. Presented paper: Assessing Tropical Mammal Communities Using Camera Trapping and Occupancy Analysis: Case study from the Udzungwa Mountains of Tanzania. TAWIRI proceedings.

*ATBC & SCB Scientific Conference*, Arusha, Tanzania (June 2011). Poster. **Martin, E.**, Rovero, F., and Spitale, D. TEAM Network Site in the Udzungwa Mountains, Tanzania: presentation and preliminary result.

### Grants and Scholarship Awards:

**2020 – 2023:** Developing Curricular for Biodiversity Monitoring and Conservation in Tanzania (€790,431.00). **Funders:** European Commission, EU, Role: **Co-PI** from the College of African Wildlife Management, Mweka

**2020 – 2021:** Using permanent vegetation plots to investigate thermophilization in African Mountains (£9,987) **Funders:** British Ecological Society. Role, **Principal Investigator**

- 2020 – 2021:** Awareness Raising on the Effects of hunting in wildlife species to the local communities living adjacent to Udzungwas, National Geographic Society Feb 2020 to Jan 2021 **(\$1,000)**  
Funders: National Geographic Society. Role: **Principal Investigator**
- 2019 – 2020:** Building Capacity for Geospatial Technologies in Tanzania: A Collaboration between Brigham Young University and the College of African Wildlife Management **(\$88,000)**. Funders: USAID, Role: **Principal Investigator**
- 2018 – 2019:** Effects of defaunation on vegetation dynamic and carbon storage in an Afro montane forest in Tanzania. **Funders:** National Geographic Society Jan 15 to Dec 31 2019 **(\$8975)**. Role: **PI**
- 2017:** Scholarship to attend a Course in taxonomy and systematics of African pollinating flies at National Museum of Kenya NMK – Nairobi
- 2017 – 2020:** JRS Biodiversity Funds: Pollinator Monitoring Project, Tanzania **(\$397,000)**, **Role:** Project Director
- 2016 – 2017:** College of African Wildlife Management Research Funds: Assessing Vegetation Cover changes at Kwakuchinja Wildlife Corridor
- 2011 – 2015:** PhD scholarship (worth of \$ 45,000) at SUA and Italy from Conservation International NGO, Washington DC.
- 2007 – 2009:** Msc Management of Protected Areas Scholarship under Austrian Development Agency – Austria (OADE).

### **Consultancies Work**

- February 2019 to August 2020:** Working with Royal Commission of Al Ula as a Senior Ranger to provide training and mentorship to the rangers of the newly established Sharaan Nature Reserve in the Kingdom of Saudi Arabia.
- October – December 2018:** Conducting biodiversity assessment and human disturbance in Minziro Forest Nature Reserve, Missenyi Bukoba
- October – November, 2018:** Conduct Dry Season Mammal count in Ngorongoro Conservation Area
- April 2018:** Feasibility Study for Ecotourism Development at Vikonge Village, Kigoma

### **Selected Short courses and Training**

- 16-26 September 2019:** Biodiversity Informatics Training Curriculum Course on Ecosystem Services, in Kigali, organized by Oxford University, Centre of excellence in Biodiversity Information - University of Rwanda and University of Kansas, USA

**13-28 August 2018:** Wildlife Stats Boot Camp at Suranaree University of Technology (SUT), Thailand

**20 November to 1 December 2017:** Training course in taxonomy and systematics of African pollinating flies at ICIPE, Nairobi Kenya

**1 to 15 of September 2015:** Introduction to GIS, online course through Oxford University, England

**1 to 5 December 2015:** QGIS Course for Fieldwork Mapping, Arusha Tanzania

#### **Professional Membership:**

- Member of Technical Teachers - NACTE
- Alumni member Management of Protected Areas – Austria
- Member of the Society of Conservation Biology (SCB)
- Member of British Ecological Society (BES)

#### **Editorial role**

- Member of the International Reviewers Panel of the Nature Conservation Research Journal
- Editor of the book titled “Protected Areas of Northern Tanzania: Local Communities, Land Use Change, and Management Challenges. Springer Nature Switzerland AG 2020 J.O., Durrant, E.H. Martin, K. Melubo, .T. Jensen, L.A. Hadfield, P.J. Hardin and L. Weisler (eds), Protected Areas of Northern Tanzania. Geotechnologies and the Environment 22, <http://doi.org/10.1007/978-3030-43302-4>

#### **Interests:**

Reading books, hiking, birder, watching world news, watching wildlife documentaries and travelling