



Alida Frankline Hasiniaina

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Project: Acoustic signal variation of mouse lemurs (*Microcebus* spp.): implications for taxonomy and conservation biology.

Research interests

My research interests focus on behavioral ecology, communication and conservation of the lemurs of Madagascar. Acoustic signaling systems are discussed to play a major role in species diversity and speciation; however empirical research on the geographical variation of signaling systems and the significance for adaptation and evolution is currently in its infancy. I will study the geographical variation of acoustic signaling behavior and its implication for taxonomy and conservation biology using the radiation of the smallest-bodied lemurs of Madagascar, the mouse lemurs showing a unique high cryptic species diversity. It is known that mouse lemurs are highly vocal, display a complex vocal repertoire and use vocalizations to govern challenges in their ecological and social world. By combining standardized morphological, bioacoustic and ethological approaches in the field along a transect in northwestern and northern Madagascar with phylogenetic and molecular genetic approaches in the laboratory and with our current knowledge of the bioacoustics of mouse lemurs, my PhD project will enhance our knowledge on the conservation biology of six endangered mouse lemur species and will contribute to unravel the role of bioacoustics for primate evolution, taxonomy and conservation biology. This study is also a necessary prerequisite on the sensibilization of local communities for the conservation of nature and on the long run to the suitability of bioacoustics as a tool to identify and monitor species diversity of nocturnal lemur communities non-invasively.



Alida Frankline Hasiniaina

Professional and scientific career

since 2015

PhD student to the PhD program Veterinary Research and Animal Biology, University of Veterinary Medicine Hanover.
Supervisor group: Prof. Dr. Elke Zimmermann /PD Dr. Sabine Schmidt, PD Dr. Heike Hadrys, Prof. Dr. Miguel Vences (TU Braunschweig)

Research project: Acoustic signal variation of mouse lemurs (*Microcebus* spp.): implications for taxonomy and conservation biology.

Main Supervisor: Prof. Dr. Elke Zimmermann

2009 - 2011

Diplôme d'Etude Approfondie (DEA) or Master II, Department of Animal Biology and Ecology, Faculty of Science, Technology and Environment, University of Mahajanga, Madagascar

Research Project: Spatial analysis of female mouse lemurs (*Microcebus murinus*) in the Ankarafantsika National Park.

Supervisor: Prof. Dr. Blanchard Randrianambinina

2006 - 2008

Master I, Department of Animal Biology and Ecology, Faculty of Science, Technology and Environment, University of Mahajanga, Madagascar

Title of thesis: Bibliography contribution to the hibernation of the family of Cheirogaleidae.

Supervisor: Prof. Dr. Blanchard Randrianambinina

2005 - 2006:

Bachelor at the Department of Animal Biology and Ecology, Faculty of Science, Technology and Environment. University of Mahajanga.

2003 -2005

Study of Biology, Faculty of Science, Technology and Environment, University of Mahajanga, Madagascar

Awards & grants

2018

Robert-Glaser- Conference- Grant, awarded by the Gesellschaft für Primatologie, for xxvii International Primatological Society Congress, 19-25 August 2018, Nairobi, Kenya

2017

Second prize of the best talk during the Inaugural Madagascar Primatological Society Congress, 13-16 December 2017, Oral presentation: High Frequency/Ultrasonic Sounds of Claire's Mouse Lemur (*Microcebus mampiratra*): What Are They Used for? .

Since 11.2015

Scholarship by DAAD supporting a German language course and the PhD thesis

2014

Rufford Small Grant supporting PhD work on: Geographical variation in vocalization, behaviour, morphology and genetics of mouse lemurs in northwestern Madagascar,

Publications

I. Articles in peer reviewed journals

2019

Rina Evasoa, M. R., Zimmermann, E., Hasiniaina, A. F., Rasoloharijaona, S., Randrianambinina, B., & Radespiel, U. (2019). **Sources of variation in social tolerance in mouse lemurs (*Microcebus* spp.)**. BMC ecology, 19(1), 20. doi:

<https://doi.org/10.1186/s12898-019-0236-x>

2018

Kessler, S. E., Radespiel, U., Hasiniaina, A. F., Nash, L. T., & Zimmermann, E. (2018). **Does the grey mouse lemur use agonistic vocalisations to recognise kin?** Contributions to Zoology, 87(4). <https://doi.org/10.1163/18759866-08704003>

Hasiniaina A. F., Scheumann M., Rina Evasoa M., Braud D., Rasoloharijaona S., Randrianambinina B., & Zimmermann E. (2018). **High frequency/ultrasonic communication in a critically endangered nocturnal primate, Claire's mouse lemur (*Microcebus mampiratra*)**. *American journal of primatology*. doi: <https://doi.org/10.1002/ajp.22866>

Rina Evasoa M., Radespiel U., Hasiniaina A. F., Rasoloharijaona S., Randrianambinina B., Rakotondravony R., & Zimmermann E. (2018). **Variation in reproduction of the smallest-bodied primate radiation, the mouse lemurs (*Microcebus* spp.): A synopsis**. *American journal of primatology*.

Durden L. A., Kessler S. E., Radespiel U., Zimmermann E., Hasiniaina A. F., & Zohdy, S. (2018). **A New Species of Sucking Louse (Phthiraptera: Anoplura: Polyplacidae) From the Gray Mouse Lemur, *Microcebus murinus* (Primates: Cheirogaleidae)**, in Madagascar. *Journal of medical entomology*.

2014

Kessler SE, Radespiel, U, Hasiniaina A, Leliveld L, Nash LT, Zimmermann E (2014). **Modeling the origins of mammalian sociality: Moderate evidence for matrilineal signatures in mouse lemur vocalizations**. *Frontiers in Zoology*, 11:14.

II. Abstracts of international conferences

2019

Hasiniaina A.F., Rina Evasoa, M., Scheumann, M., Randrianambinina, B., Rasoloharijaona, S., Radespiel, U., & Zimmermann, E.. **Agonistic calls: suitable tools to discriminate cryptic species in the smallest-bodied primate radiation, the mouse lemurs**, 14th Annual meeting of Ethologische Gesellschaft: 06-08th February, 2019, Hannover, Germany.

Hasiniaina A.F., Rina Evasoa, M., Scheumann, M., Randrianambinina, B., Rasoloharijaona, S., Radespiel, U., & Zimmermann, E. **Agonistic calls: noninvasive suitable tools for cryptic species in the smallest-bodied primate radiation, the mouse lemurs**, 16th Conference of the Gesellschaft für Primatologie, February 13-15, 2019, Göttingen, Germany.

2018

Hasiniaina A.F., Rina Evasoa, M., Scheumann, M., Randrianambinina, B., Rasoloharijaona, S., & Zimmermann, E.. **High frequency/Ultrasonic communication in a critically endangered nocturnal Primate, Claire's mouse lemur (*Microcebus mampiratra*)**. xxvii International Primatological Society Congress, 19-25 August 2018, Nairobi, Kenya.

2017

Hasiniaina A.F., Rina Evasoa M., Scheumann M., Randrianambinina B., Rasoloharijaona S., & Zimmermann E. **High Frequency/Ultrasonic Sounds of Claire's Mouse Lemur (*Microcebus mampiratra*): What Are They Used for**. Inaugural Madagascar Primatological Society Congress, Madagascar. December 13-16, 2017

Rina Evasoa M., Radespiel, U., Hasiniaina A.F., Rasoloharijaona S., Randrianambinina S., & Zimmermann E., **Variation in**

Reproduction of the smallest bodied- primates radiation , the mouse lemurs (*Microcebus spp*). Inaugural Madagascar Primatological Society Congress , Madagascar. December 13 16, 2017

Hasiniaina A.F., Rina Evasoa, M., Scheumann, M., Randrianambinina, B., Rasoloharijaona, S., Radespiel, U., & Zimmermann, E.. **Bioacoustics-A Non-Invasive Tool for Species Diagnosis in a Nocturnal Cryptic and Small-Bodied Primate Radiation, the Malagasy Mouse Lemurs (*Microcebus spp.*)?**. In *Folia primatologica conference* (Vol. 88, No. 2, pp. 180-180).Straßburg, France, August 22-25, 2017

Rina Evasoa M., Hasiniaina A.F., Rasoloharijaona S., Randrianambinina B., Radespiel U., Zimmermann E. . **Variation in Intra-and Intersexual relationships in closely related species of a nocturnal primate radiation. (*Microcebus spp.*)**.. Folia Primatologica conference . Straßburg, France, August 22-25, 2017

2016

Radespiel U, Hasiniaina AF, Rina Evasoa M, Scheumann M, Randrianambinina B, Rasoloharijaona S, Zimmermann E. **The role of vocalizations in species diversity and evolution of lesser mouse lemurs (*Microcebus spp.*): first results from northwestern Madagascar**. XXVI Congress of the International Primatological Society and the American Society of Primatologists, Chicago, USA, August 21-27,2016

2015

Randrianambinina B., Hasiniaina AF., Spatial analysis of female mouse lemurs (*Microcebus murinus*) in Ankarafantsika National Park. Mouse Lemur workshop **The Mouse Lemur: A new model organism for physiology, behavior and conservation biology** , Paris .October 8-9, 2015

2014

Kessler SE, Radespiel U, Hasiniaina AIF, Nash LT, Zimmermann E (2014). **Modeling the origins of primate sociality: Do mouse lemurs use vocalizations to recognize kin?** XXV Congress of the International Primatological Society, Hanoi, Vietnam, August 11-16.

Kessler SE, Radespiel U, Hasiniaina AIF, Leliveld LMC, Nash LT, Zimmermann E (2014). **Modeling the origins of mammalian sociality: Matrilineal signatures in mouse lemur vocalizations**. 83rd annual meeting of the American Association of Physical Anthropologists, April 8-12. American Journal of Physical Anthropology, vol. 153, Supplement 58, p. 157.

[Further scientific activities](#)

Since 12.2017

Active member of Gessellschaft für Primatologie (GfP)

2013

Training in bioacoustics of mouse lemurs at two different study sites (Ampijoroa and Bombetoka) and co-organization of the field study in Bombetoka (together with Prof. Zimmermann. TiHo)

12.2011

Participation in a field study in northwestern Madagascar for the selection of the new research sites for the University of Mahajanga. Delimitation of new research site in the Ankarafanstika National Park. Census and survey of lemurs, reptiles and birds in Ampondrabe, with members of the Faculty of Sciences University of Mahajanga.

08.2009

Survey of *Propithecus coquereli* in Vavan I Marovoay: Abundance , diet, preference on support, collection of feces , with the group of Prof. Lounes Chikki, Toulouse University

09.2008

Participation in the Course "Tropical Wildlife Ecology" : Behavioural Ecology and Conservation Biology of tropical vertebrates, given by the Institute of Zoology (TiHo), the Faculty of Sciences, University of Mahajanga and the University of Anatananarivo, Madagascar

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