MIHARIVOLA Hasina Norbert
Address: Bloc I2 C.U Ambolokandrina - 101 Antananarivo - Madagascar
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E-mail: hasina.norbert@gmail.com
Age, Gender: 23 years old, Female
Situation: Single

PROFESSIONAL TRAINING

2016-2018
- Master II in Systematics and Sustainable Management of Plant Diversity (SYGEDUR) - Mention of Plant Biology and Ecology, Faculty of Science, University of Antananarivo, Madagascar

2015-2016
- Master I in Systematics and Sustainable Management of Plant Diversity (SYGEDUR) - Mention of Plant Biology and Ecology, Faculty of Sciences, University of Antananarivo, Madagascar

2012-2015
- Bachelor in Biology of Organisms and Ecosystems (BOE) - Faculty of Sciences, University of Antananarivo, Madagascar

PROFESSIONAL EXPERIENCES

2016- 2018 Master's thesis, titling "Inventory and Ethnobotanical, Biological and Ecological Characterization of Dioscorea Species in the Menabe and Sofia Regions".

Juin 2018 Training of YALI (Young African Leader Initiative) trainers, Antananarivo

Septembre 2018 Training workshop on "Scientific writing and poster" and "Journal and reference" organized by Ikala STEM, Antananarivo.

Juillet 2017 Study tour in the protected area of Ambohindray
Mission: Inventory and collection of the flora of Ambohidray and ethnobotanical study of plants.

2017-2018 Instructor in plant biology and plant cell biology for first year students, natural sciences.

Mars 2017	Internship in the Flora Department, Tsimbazaza Zoological and Botanical Park (PBZT), Antananarivo, Madagascar Mission: Discovery and application of different methods of ex situ conservation of plant diversity in Madagascar (Botanical Garden, Arboretum, greenhouse and nursery), herbarium assembly, plant identification training through herbaria..
Novembre 2016	Study tour in the Ambohitantely Nature Reserve, West Central Madagascar Mission: Study of the ecological state and floristic inventory of the site
Août 2016	Study tour in Ranomafana National Park, East of Madagascar Mission: Ethnobotanical survey concerning all local knowledge related to biodiversity; initiation to the methods of inventory and ecological study of the forests and finally collection of the living plants for the setting in herbarium..
Juin 2015	Study tour in the Maromizaha National Park, East of Madagascar Mission: Initiation to methods of ecological inventory of forests.

LANGUAGES AND COMPUTERS

Malagasy	Native language
French	Excellent
English	Good (Level 5 at the National Center for Teaching the English Language, CNELA, Madagascar)
German	Medium (Level 3 at the Germano-Malagasy Circle, CGM-Goethe Institute)
Data processing	Mastery of Word, Excel, PowerPoint, GIS and Anthropac

EXTRA-PROFESSIONAL ACTIVITIES

Social	Member Ikala STEM (Association of Malagasy Women in Science and Technology: Science, Technology, Engineering and Mathematics) Active member of MPIKRIMA (Association of Christian Students of Madagascar),

Name: **MIHARIVOLA**

First name: **Hasina Norbert**

Title: Ethnobotanicals, biologicals and ecologicals inventories and characterizations of wild *Dioscorea* species (DIOSCOREACEAE) in the Menabe and Sofia region

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ABSTRACT

Dioscorea, the genus richest species in the Dioscoreaceae family, comprises more than 40 species in Madagascar. The western dry forest which in the region of Menabe and Sofia is home to a great wealth including the Dioscorea.

The main objective of this study is to provide information (species diversity, ethnobotanical, biological, morphological and ecological) on wild *Dioscorea* in the Menabe and Sofia regions. To do this, the approach methodology is based on ethnobotanical interviews, morphological descriptions according to the IPGRI descriptors, biological studies and floristic inventories by the Braun Blanquet method.

In the Menabe region, floristic inventories made it possible to identify seven species of wild *Dioscorea* of which 6 are endemic: *Dioscorea maciba, Dioscorea ovinala, Dioscorea antaly, Diosscorez bako, Dioscorea soso, Dioscorea bemandry* and one introduced *Dioscorea sansibarensis*. As for the Sofia region, 9 species of wild Dioscorea have been inventoried, of which 7 are endemic: *Dioscorea maciba, Dioscorea ovinala, Dioscorea antaly, Dioscorea soso, Dioscorea bemandry, Dioscorea bemarivensis* and *Dioscorea bosseri* and 2 introduced: *Dioscorea sansibarensis* and *Dioscorea quartini*ana.

In both regions, yams are an important food source for local populations. During the famine period, they provide the staple food for Menabe villagers while they remain a snack food for the population of Sofia. In addition, they are used in several recipes and have medicinal properties. Thus, they represent a real cultural value for the populations.

In general, the *Dioscorea* species studied are climbing plants, voluble on the left and present annual aerial apparatuses and annual or perennial underground apparatus, of variable number and shape. In addition, they are heliophilous plants and occupy different types of habitats but they are abundant and frequent in open formations with sand-textured soils.

Despite its importance in food, yams are still the subject of little attention by the entire population of Madagascar, hence the importance of yam conservation and the vulgarization of endogenous knowledge associated with them.

Key words: *Dioscorea*, ethnobotanical, description, IPGRI, biology, ecology, Menabe and Sofia

MIHARIVOLA Hasina Norbert

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Dear Sir,

When I read your advertisement for the second annual E^2M^2: Ecological and Epidemiological Modeling in Madagascar, I couldn't help noticing how closely your announce along my skills.

I am very interested in attending the second the second annual E^2M^2 on developing and improving access to dynamical models in understanding ecological and epidemiological data. I would like be more than happy to participate in a series of interactive lectures and computer-based tutorials and to learn to fine-tune model based research questions and also to work as well as the various activities that could be done with peers. In addition to that, this workshop is such a great deal of opportunity for me to enhance my knowledge for developing clear model frameworks and corresponding equations and fit models to real world data.

Moreover, I have already had a little notion with "R Studio" when I was in the third years on Biology at the University of Antananarivo, Faculty of Sciences. Thought, to be honest, I remind almost nothing with this framework, so any opportunity to learn about that would be very helpful.

Furthermore, I can say that the information I can get through the participation in the workshop will be valuable to the development of my long-term research goals because I wish to continue my research with yam (*Dioscorea* spp) by using a language and environment for statistical computing and graphics like R for the data analysis.

I believe that providing better access to modeling optional 'R Bootcamp' is a huge need and opportunity as I am concerned an ecologist.

I look forward to hearing from you

Yours sincerely,

Hasina Norbert.