

CURRICULUM VITAE

SURNAME: ANDRY

FIRSTNAME: Santino

ADDRESS: VS 21 YAC bis Ambolokandrina

CONTACT: 032 46 683 77

E-mail : andrysantino2@gmail.com

EXPERIENCES

2018:

- Workshop participation: scientific writing and poster by Ikala STEM Association
- Workshop participation: Seed dispersal in human dominated landscape in Andasibe organized by Ary Saina Association.
- Training in GIS and Cartography with the SOA PIDM Association.

2017:

- Identification of forest insects within the California Academy of Sciences for a period of 1 month.
- Fieldwork of a week on the inventory of the insects of edge and the forest in the Fokontany of Amboasary Anjozorobe with the entomology department of the university of Antananarivo.

2015: 2 months internship at the Vakinankaratra Regional Fisheries Directorate on the theme: "Comparative studies between two carp fry producers" Betafo Antsirabe II Commune.

2011-2012: Manager of agricultural inputs at the "Union Matanjaka" Agricultural Cooperative based in Diego-suarez.

2010-2012: Work as volunteer with Association des Jeunes Formateurs Assistants Conseillers et Etudes (A-JFACE) during the sessions of study and job orientation.

EDUCATION

2018: MASTER II in Sustainable Management of Useful and Harmful Insects in process at the Science University of Antananarivo

2015: Bachelor Degree on Professional and Diploma of Technician Superior option breeding delivered by l'Institut Professionnel Supérieur en Agronomie de Tombontsoa Antsirabe.

OTHER COMPETENCES

- English : Intermediate level
- French : Fair
- Computer science: good knowledge of Word and Excel software / basic knowledge of Qgis and R software

DIVERSE

- Member of Global Youth Biodiversity Network
- Member of Friends of Ikala-Science Technology Engineering and Mathematics
- Member of Association Regroupant les Entomologistes de Madagascar
- Fond of reading

Abstract of current project

Madagascar has an exceptional biota and considered one of the most important biodiversity hotspots in the world. With regards to ant, four genera are endemic to Madagascar and currently 1258 species are described. Ants have a broad ecological importance not only they constitute a great part of the animal biomass but also, they act as ecosystem engineers. Currently 11,000 species of angiosperm from 334 genera and 77 families are known myrmecochorous. Our ongoing Master II study treat about seed dispersal by native ant *Aphaenogaster swammerdami* and exotic ant *Pheidole sp* in New Protected Area Ambohidray (in continuous and fragmented forest) owing to the importance of this phenomenon on plant radiation and then the scarcity of this study in Madagascar. In one hand, the objectives of this research are: 1) to determine ant community in this site 2) to determine the main plant species dispersed by *Aphaenogaster swammerdami* and *Pheidole sp* 3) to estimate relative role of *Aphaenogaster swammerdami* and *Pheidole sp* as seed dispersers in plant regeneration in fragmented forest. In other hand, with collected data that will yield during fields study we will use a mathematical model to describe the effectiveness of these two ants as seed dispersers using time of seed removal as parameter and then we will use a statistical model to link the seed traits and weight to each ant species.

Statement of interest and intent

Nowadays, science evolved, and we will continue to find new species out and new knowledge about our environment. The scientists precipitate to do researches due to the threats face by fauna and flora driven by human activities. Currently, most of plants, and animals are endangered and researchers are in a hurry to study them. All researcher is competing to publish their research's results. Because of the abundance of literature published, scientific community become more demanding about research's quality, and accuracy.

Now, modeling is mostly used to improve researches results. In one hand, use statistical or mathematical model allow to obtain concise, and clear results. That is, the data set could be appear in one chart or curve. In other hand, model could be a great tool to predict events. For instance, using model, we can with our data predict that such species is endangered or not.

As an early career scientist, I still improve my skills via trainings, and workshops. First, R software is a tool more, and more used because it is free containing many useful packages. To master the use of these packages; I need help from people whom have experiences with R software. With E2M2 workshop, I hope to handle R software, and strengthen my knowledge into this one. Besides, this workshop will be a relevant opportunity for me to discuss my project with other scientists, and mentors. Finally, this workshop allows me to foster a strong network with people whom work in the field of ecology, and epidemiology. It also allows me to meet new friends, and colleagues.