Coming soon with a master degree in GIS and decision support, helping people make decisions via geomatics is my job.

But the epidemics and diseases that exist in Madagascar interest me a lot because it is still a factor of poverty in our country. To help solve this problem, I would like to deepen my knowledge in the field of epidemiology and health. I would like to associate my GIS study with epidemiology, in order to make spatial analyzes on the transmission and propagation of existing epidemics in our country.

I expect this training will help me to better understand the field of health and the dynamics of diseases and epidemics in order to set up GIS.

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Student in 2nd year of Master in Geomatics Information System and Decision

GIS and Decision Support Developer

FORMATIONS

2016 – 2018 Master's degree at the EMIT School of Management and Technological Innovation at the University of Fianarantsoa
Mention : Informatic, Career : Geomatics Information System and Decision

2014 – 2016 Bachelor's degree at the School of Management and Technological Innovation EMIT of the University of Fianarantsoa
Mention : Informatic, Career : Geomatics Information System and Decision

2012 – 2014 First and second year at the School of Research and Development ERD Antananarivo
Mention : Informatic, Career : Business Computing and Networks

GRADUATES

2017 Diploma of Professional License in Application Development
Internet and Intranet

2015 Higher Technician Diploma in Business Computing and Networks

2011 Scientific Baccalaureate Diploma Series D
High School Jacques RABEMANANJARA Toamasina

2011 Diploma of French Language Studies DELF B1

2010 Diploma of French Language Studies DELF A2

PROFESSIONAL EXPERIENCES

2018 Participation in the project "Accessibility to care in Ifanadiana": digital cartography of Ifanadiana district with ONG PIVOT

Design and implementation of a Geographical Information System on the analysis of the vulnerability of built-up areas to the risk of landslides.

Implementation of a decisional webmapping application on malaria

December 2016 – March 2017 3 months Internship in the FID Development Intervention Fund Toamasina in the Monitoring and Evaluation Department
« Establishment of a complaints management website of FID Toamasina »

December 2015 – March 2016 3 months Internship at the National Agency for the Realization of E-Governance ANRE
« Conception and realization of an ERP module of Management of the missions of the ANRE »

December 2014 – April 2015 4 months	Internship in the National Agency for the Realization of E-Governance ANRE in Network Administration
2014	Design and Realization of an Embedded Intrusion Remote Sensing System

COMPUTER KNOWLEDGES

Operating systems: Windows, Linux (Ubuntu, Debian)
Database Management Systems: Microsoft Access, MySQL, PostgreSql 9.x, PostGIS 2.x
Programming languages: Pascal, Assembler, Visual Basic, C, C++, JAVA, SQL, Prolog, Python
Web Technologies : HTML5, CSS3, JavaScript, JQuery, J2E, PHP, JSP, Javascript, AngularJS 2.0, Ajax, Jquery
Frameworks web : CodeIgniter, Zend, Struts2, Hibernate, AngularJS, Bootstrap
Web servers : Wampserver, Xamp, EasePHP, TomCat
Client / Server webmapping: OpenLayers 3, Lizmap, GeoServer, MapServer
Software GIS : QGIS, ArcGIS, geonetwork, geoserver, ERDAS, Monteverdi, Google Earth
Development IDE : Visual Studio, PHPRunner, NetBeans, Eclipse, Android Studio
Method and conceptual language : M.E.R.I.S.E, U.M.L.
Multi-agent system : Netlogo, GAMA
Accompanying modeling : Method A.R.D.I
Project management : Method SCRUM
Business Intelligence : SpagoBI, TalendOpenStudio
Statistical analysis : Matlab, Scilab, SPAD, StataSE, SPSS Statitcs
Networks : CCNA, Installation, Configuration, Architecture, VLAN, WAN, TCP/IP, DHCP

OTHER KNOWLEDGES

Electronics ; Microcontroller programming.
Management and Leadership
General compatibility

LANGUAGES

Malagasy	Fluently
Français	Fluently
Anglais	Technical

FURTHER INFORMATION

Hobbies	Swimming, Reading, Internet, Board Games.
Others	Super Coach SuperCodeur, Orange Community Fianarantsoa, member of the EMIT choir

Dynamic model of malaria in Madagascar

Abstract

Knowing that spatial analysis is a geographical approach that studies spatial locations and interactions, as active components of societal functions, we are interested in the dynamic model of malaria transmission, doing spatial analysis, we want to understand its spatial evolution in Madagascar.

In the first part, we formulate the objective in this study, then, in a second part, the method that we adopted. And in the third part, we talk about the results obtained.

Purpose

Our goal is to study the spread of malaria epidemics in Madagascar, and to predict the risks of epidemic outbreaks in other areas.

So to show decision-makers when and where the use of antimalarial drugs and impregnated mosquito nets, for example, is very necessary.

Method

To achieve our project, we used an online mapping or webmapping. It's a digital map, which uses the internet, so we can design and manipulate maps, process them, and publish them.

Result

As results, we get information on the spread of the malaria epidemic, accessible online. With data on the number of patients reported, the death rate (adult or child) in a period and in different spaces, we can help a decision maker make decisions and see the estimates.

Conclusion

I believe that this dynamic model, which can predict malaria epidemics, plays an important role in the fight against this disease. But as a perspective, it is also necessary to study the re-emergence of malaria and to study the emergence of other diseases in relation to space.