

Nomena F. NY HOAVY

Academic

Personal Details :

Place | Age : Antananarivo, Madagascar | 25

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My areas of interest: machine learning, information retrieval, complex systems modeling.

Publications

IRIT & MISA at Image CLEF 2017 - Multi label classification (regular paper).
Josiane Mothe, Nomena Ny Hoavy, Mamitiana Ignace Randrianarivony.
International Conference of the CLEF Association, CLEF 2017 Labs Working Notes, Dublin, Ireland, 11/09/2017-14/09/2017, Linda Cappellato, Nicola Ferro, Lorraine Goeuriot, Thomas Mandl (Eds.), 2017.

Josiane Mothe, Nomena Ny Hoavy, Mamitiana Ignace Randrianarivony.

Work Experience

2018 Data Miner in collaboration with MISA, Antananarivo, Data scientist.

As an external service provider, we did a remake of the (Bank) Credit Scoring. Our main goal has been to improve the existing model. I evaluated different types of models, ranging from advanced statistical (eg logistic regression) to artificial intelligence (eg artificial neural networks) techniques, applied to existing data.

2017 **Web Application Developer TeamTic Madagascar , Antananarivo**, *Analyst Java / Java EE*.

As team's Full Stack developers, our mission is to analyze, model and build business applications using JEE technology. We use Spring MVC and JSF frameworks coupled with Oracle database.

Mars 2015 **Developer E-saina , Antananarivo**, Odoo modules developer.

On demand of the companies, we worked on the OpenERP Odoo management software. This opensource software was adapted to fit their needs by integrating and developing modules using Python programming language and PostgreSQL database.

2014 **Société ARO Madagascar**, website Developer.

We proposed to this company to digitize these activities in order to minimize these resources (in time and space) and better manage them. Thus we set up an intranet website allowing to manage staff data, workflows, documents and communication. We used PHP JavaScript and Mysql technologies.

2014 UNICECAM Madagascar, Staff former in using Debian distribution.

To accompany the migration of this institution towards using free and opensource software, we trained their staff on the interest of using these types of software. The training included an introduction to the use of the Debian - Ubuntu 14 distribution.

2014 Trainee at SSII Madamaster Madagascar, Web developer and integrator.

As part of our courses, I was received by this IT services company to do an internship program as a web developer. We used Zend framework, WordPress CMS and the MySQL database.

Additional training

2018 JEDI Workshop - Big Data Science, JEDI Student.

As a JEDI Student, Our group's work was to study Optical and Radar Imagery for Sustainable Agriculture. Utilizing the latest earth observation imaging platforms (ESA's Sentinel missions and NASA's LandSat) we have looked at a range of uses and techniques for optical and radar imaging in agriculture. (http://www.idia.ac.za/workshop/jedi-madagascar)

- 2018 E^2M^2 Ecological & Epidemiological Modeling in Madagascar, Participant. I had the opportunity to participate in this workshop (http://metcalflab.princeton.edu/e2m2-application/) during which we studied mathematical modeling (mechanistic and statistic). I proposed and worked on the study of the link between deforestation and the emergence of infectious diseases: the plague.
- 2017 FabSpace BootCamp Program, Participant.

This bootcamp (https://www.irit.fr/FabSpace/en/node/86) proposed technical and business sessions on Earth observation. We participated to it to develop our Fabspace project which focuses on the mapping of the relationship between deforestation and the emergence of epidemic diseases on an area of interest (Madagascar for example).

Awards

2017 **Team Winner Créathon C2E 2017 Competition**, *Team Velox : Technical manager*.

Within the Velox team, our project named "iDéfi" was one of the winners during the C2E Créathon 2017 organized by Réseau Canopé Poitiers (https://www.c2e-poitiers.com/creathon-2017/). IDefi is a digital platform (web and mobile) to animate these users to make ecological actions. Through challenges, it simplifies access to ecological actions and projects, in a fun and interactive way.

Courses and diplomas

2014-2015 **Master's degree**, in Applied Mathematics and Computer Science - Mathématiques Informatique et Statistique Appliquées : **MISA** .

Faculty of sciences Ankatso, University of Antanarivo, Madagascar Thesis 2016: "image captioning via deep learning" | with Honors Advisor: Prof. Josiane Mothe de l'Université de Toulouse / IRIT

- 2012-2013 Academic semesters Maîtrise en Informatique et Statistique Appliquée :MISA , Faculty of sciences Ankatso, University of Antanarivo, Madagascar.
- 2010-2012 , Mathematics and Computer Science.

Faculté of sciences Ankatso, University of Antanarivo, Madagascar **Diplôme Universitaire d'Etudes Scientifiques II** (DUES II)

2010 Baccalauréat (French secondary school diploma) Série C , Terminale C (Scientific) | with distinction.

Lycée Moderne Ampefiloha, Antanarivo, Madagascar

Computer Skills

OS Linux, Windows.

Programming C/C++, HTML5/CSS3, PHP5, SQL, JavaScript, Java, XML, UML,

languages Python, R.

Network LAN, TCP/IP, routing.

Multimedia Gimp, Adobe Photoshop, Audacity.

Areas of Information retrieval (Information System), Imaging and computer vision,

Interest Probability and Applied Statistics, Games Theory, Graph theory, Parallel

(ordered) and Distributed Algorithm, Algorithmic, Multi-agent system, Semantics of

programming languages.

Languages

Malagasy native language

French bilingual proficiency

English limited working proficiency

German elementary proficiency

Interests and Activities

- Videos Games
- Football

Volley-ball

Traveling

coordinates of the referents

Names	Titles	coordinates
Prof. Vlady RAVELOMANANA	Instructor Master 2 in cooperation with	vlad@irif.fr
	Université Paris Diderot	
Prof. Josiane MOTHE	Instructor and advisor Master 2 in	
	cooperation with Université de Toulouse	josiane.mothe@irit.fr
	and IRIT laboratory	
Dr. Olivier ROBINSON	Instructor and advisor Master 2 in	robinson@moov.mg
	Université d'Antananarivo Madagascar	