

Nono Saha Cyrille Merleau
Kohlenstr. 16
0407 Leipzig
Tel.: 015257082636
Email: nonosaha@mis.mpg.de

Leipzig, den 25. August 2022

An den
Dekan der Fakultät für
Mathematik und Informatik
Universität Leipzig
PF 10 09 20
04009 Leipzig

Betreff: Durchführung meines Promotionsverfahrens

Sehr geehrter Herr Prof. Dr. Martin Middendorf,

hiermit möchte ich die Durchführung meines Promotionsverfahrens im Fachgebiet Informatik zur Erlangung des Doktorgrades Doctor rerum naturalium (Dr. rer. nat.) an der Fakultät für Mathematik und Informatik der Universität Leipzig beantragen.

Die Anfertigung der Dissertation wurde von Herrn Dr. Matteo Smerlak betreut.
Prof. Dr. Peter Stadler vom Institut für Informatik der Universität Leipzig befürwortet
die Einreichung meiner Dissertation.
Mit freundlichen Grüßen,


Nono Saha Cyrille Merleau

Anlagen: Dissertation (3 gebundene Exemplare), Zusammenfassung der Dissertation (30 Exemplare), beglaubigte Kopie meiner Diplomurkunde, tabellarischer Lebenslauf, Erklärungen nach §6 1.5 der Promotionsordnung, Verzeichnis der wissenschaftlichen Veröffentlichungen und Vorträge, Gutachtervorschläge.

Gutachtervorschläge

Folgende Personen wären aufgrund ihrer fachlichen Kompetenz als Gutachter für diese Dissertation besonders geeignet:

- Dr. Matteo Smerlak
Max-Planck-Institut für Mathematik in den Naturwissenschaften
Inselstr. 22-26
D-04103 Leipzig
email: matteo.smerlak@mis.mpg.de
Tel: +49 160 5805577
- Prof. Dr. Peter F. Stadler
Universität Leipzig Fakultät für Mathematik und Informatik
Institut für Informatik
Härtelstraße 16 – 18
04107 Leipzig
email: peter.stadler@bioinf.uni-leipzig.de
Tel: +49 341 97-16690
Fax: +49 341 97-16679
- Dr. Yann Ponty
CNRS Senior Scientist (DR2)
Head of AMIBio Team
LIX, Ecole Polytechnique
Bat. Alan Turing - Ecole Polytechnique
1 rue d'Estienne d'Orves 91120 Palaiseau, France
email: yann.ponty@lix.polytechnique.fr
Tel: +33(0).1.77.57.80.95
- Dr. Sebastian Will
AMIBio - Laboratoire d'Informatique de l'X (LIX) - IP Paris
Bat. Alan Turing - Ecole Polytechnique
1 rue d'Estienne d'Orves 91120 Palaiseau, France
email: sebastian.will@polytechnique.edu
Tel: +43 1 4277 52749



UNIVERSITÄT LEIPZIG

Universität Leipzig, Bioinformatik, Härtelstraße 16 – 18, 04107 Leipzig

Dekanat
Fakultät für Mathematik und Informatik

Fakultät für Mathematik und
Informatik
Institut für Informatik
Professur für Bioinformatik
Prof. Dr. Peter F. Stadler

Bearbeiter:
Sven Findeiß
Telefon 0341 97-16690
Telefax 0341 97-16679
svenl@bioinf.uni-leipzig.de

11. Juli 2022

Hiermit befürworte ich die Einreichung der Dissertation von Herrn Nono Saha
Cyrille Merleau mit dem Titel "From RNA folding to inverse folding: a
computational study" im Fach Informatik.

Mit freundlichem Gruß,

A handwritten signature in blue ink, appearing to read "Peter F. Stadler".

Prof. Dr. Peter F. Stadler

Universität Leipzig
Fakultät für Mathematik und
Informatik
Institut für Informatik
Professur für Bioinformatik
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04107 Leipzig

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peter.stadler@bioinf.uni-leipzig.de

Web
www.bioinf.uni-leipzig.de

Postfach intern
505001

Kein Zugang für elektronisch
signierte sowie für verschlüsselte
elektronische Dokumente



NONO SAHA CYRILLE MERLEAU

Bioinformatician

@ nonosaha@mis.mpg.de +49 15 25 70 82 636 Leipzig, Germany
in cyrille-merleau-nono-saha-1a9a1a100 lemerleau

RESEARCH INTERESTS

- RNA folding
- Deep Learning
- RNA Design
- Data Science
- Sequencing Data Analysis
- Evolutionary Dynamics (ED)
- Evolutionary Algorithms (EAs)
- Genome-wide association
- Discrete Optimization
- Software Security

PROGRAMMING LANGUAGES

- JavaEE
- Python
- JavaSE
- SQL
- HTML
- CSS
- JS
- TypeScript
- C++
- C
- Pascal
- Bash

SOFTWARE ENGINEERING

- SpringMVC
- Spring-surf
- Alfresco
- Spark
- Django
- Angular 12
- GreenDAO
- Hibernate
- mybatis
- ExtJS
- FreeMarker

MODELLING LANGUAGES

- ArgoUML
- Visual paradigm
- UML
- Enterprise Architect
- GAMAL

WEB SERVERS

- XAMP
- Tomcat
- Apache

VERSIONING TOOLS

- GIT
- SVM

ABOUT ME

Designing new algorithms for real life problems is what I enjoy doing the most. I like constant learning working environments, and my research interest includes RNA inverse folding, RNA folding, evolutionary dynamics, RNA viruses, Deep learning, software engineering and software security.

EXPERIENCES

Junior Researcher | Max Planck Institute of Mathematics in the Sciences

September 2018 – Present Leipzig, Germany

- PhD student in Bioinformatics.

Java/J2EE Software Engineer (freelancer) | Koosserydesk Sarl

September 2015 – February 2018 Paris, France

- ECM server, based on Alfresco technology for the management of documentary contents.
- WORKING-SPACE functional server, providing the space capabilities of documentary work and relying on ECM and BPM technical servers.
- Java layer based on the Spring-surf-MVC framework. This layer communicates with the WORKING-SPACE functional server.
- Graphical interface based on the Sencha-Ext-JS framework. The interface communicates with the java layer in REST mode.

Java developer | Afreeetech Sarl

August 2017 – October 2017 Yaoundé, Cameroon

- Frontend with Java layer based on the Spring-surf-MVC framework and graphical interfaces based on AngularJS.
- Backend with SpringData and Liquibase

Assistant lecturer | Mathematics and Computer Science Department, Ngaoundéré University

October 2016 – November 2016 Ngaoundéré, Cameroon

- Tutorials in advanced SQL and some practical cases using MySQL and PostgreSQL.
- Tutorials in object oriented data base and practical case using ObjectDB.
- Tutorials in NoSQL and some practical cases using MongoDB

Assistant technician | Innovative Technologies Sarl

June 2015 – September 2015 Ngaoundéré, Cameroon

- Installation and implementation of a Free Park Manager(GLPI).
- Implementation of network installation plans for partner clients (FNE, NAFISSA College).

DATABASE SYSTEMS

MySQL PostgreSQL
MongoDB SQLite

COMPILING TOOLS

Maven Ant Gradle
G++

NETWORK SYSTEMS

NFS NAT DHCP
DNS SSH Ubuntu Mirror

INTERNET PROTOCOLS

TCP/IP ICPM POP3

INTERNET SOFTWARE

Firefox Google chrome
Opera Mini Thunderbird
Slack Skype Outlook

NETWORK SOFTWARE

Postfix Wireshare Bind9
Packettracert NS3

OPERATING SYSTEMS

Ubuntu Debian PfSense
BackTrack Windows XP
Linux Windows Vista
Windows 7 Windows 8
Windows 10 MacOS

OFFICE SUITE

Word Excel Publisher
Access PowerPoint

PERSONAL INTERESTS

Teamwork spirit Reading
Problem solver Football
Synthesis spirit Basketball
Dancing Entrepreneurship

- Installation of video surveillance cameras.
- Network administration within system of company and hardware maintenance within the company and partner customers.

Mathematics Teacher for extra lessons | [Classes III and upper level, secondary school](#)

📅 September 2011 – May 2012

📍 Ngaoundéré, Cameroon

Sales and promotion officer | [MAYOR Sarl](#)

📅 July 2009- August 2009

📍 Maroua, Cameroon

EDUCATION

Ph.D. in Bioinformatics | [Max Planck Institute of Mathematics in the Sciences](#)

📅 September 2018 – Present

📍 Leipzig, Germany

- Ongoing
- Thesis entitled: *From RNA folding to inverse folding: a computational study*

M.Sc. in Mathematical Sciences | [African Institute for Mathematical Sciences| University of Ghana](#)

📅 2017 – 2018

📍 Biriwa, Ghana

- Obtained with 78/100
- Thesis entitled: *Evaluation of libraries implementing symbolic regression*

M.Sc. in Computer Science | [The University of Ngaoundéré](#)

📅 2012 – 2014

📍 Ngaoundéré, Cameroon

- Obtained with 15.56/20
- Thesis entitled: *Malware detection method based on system call for android applications*

B.S. in Mathematics and Computer Sciences | [The University of Ngaoundéré](#)

📅 2009 – 2012

📍 Ngaoundéré, Cameroon

- Obtained with 13.21/20

High School Diploma (Bacalauréat C) | [LYCLAMOMA](#)

📅 2008 – 2009

📍 Maroua, Cameroon

PUBLICATIONS

An evolutionary algorithm for inverse RNA folding inspired by Lévy flights | [BMC bioinformatics \(Published\)](#) |  | 

📅 2022, *Nono SC Merleau, Matteo Smerlak*

RAFFT: Efficient prediction of RNA folding pathways using the fast Fourier transform | [PLoS Computational Biology](#) |  | 

📅 2021, *Vaitea Opuu, Nono SC Merleau, Vincent Messow, Matteo Smerlak*

LANGUAGES

French: Native or bilingual proficiency

English: Professional working proficiency

German: Limited working proficiency (B1-Level)

Fulfulbé : Mother tongue

Bafoussam: Mother tongue

REFERENCES

Dr. Matteo Smerlak

 matteo-smerlak

 smerlak@mis.mpg.de

Dr. Philip J. Gerrish

 philip-gerrish-2139986

 pgerrish@unm.edu

Dr. Ivan P Yamshchikov

 kroniker

 iyamshchikov@hse.ru

Why are viral genomes so fragile? The bottleneck hypothesis | PLoS Computational Biology (Published) |  | 

 2021, Nono SC Merleau, Sophie Pénisson, Philip J Gerrish, Santiago F Elena, Matteo Smerlak

A simple evolutionary algorithm guided by local mutations for an efficient RNA design | GECCO'21 (Published) |  | 

 2021, Nono SC Merleau, Matteo Smerlak

It Means More if It Sounds Good: Yet Another Hypothesis Concerning the Evolution of Polysemous Words | COMPLEXIS (Published) | 

 2020, Ivan P Yamshchikov, Cyrille Merleau Nono Saha, Igor Samenko, Jürgen Jost

Holonification model for a multilevel agent-based system | Personal and Ubiquitous Computing (Published) | 

 2019, Igor H. Tchappi, Stéphane G., Vivient C. Kamla, J.-C. Kamgang, Cyrille M. S. Nono, Hui Z.

CONFERENCES, WORKSHOPS AND VISITS

Computational approaches to RNA structure and function

 August 2022  Benasque, Spain

Two talks, on RNA design and RNA kinetics.

GDR Bioinformatique Moléculaire

 November 2021  Lyon, France

No talk.

GECCO 2021 - The Genetic and Evolutionary Computation Conference

 July 2021  Lille, France

One talk on Evolutionary algorithm applied to RNA design.

AlgoSB Winter School on Mathematical and Computational Methods for Structured Ribo-Nucleic Acids | CIRM

 January 2019  Luminy, France

One talk on RNA design.

GECCO 2019 - The Genetic and Evolutionary Computation Conference

 July 2019  Prague, Czech Republic

No talk.

Visitor-SDU Biorobotics, MMMI, University of Southern Denmark

 December 2018  Copenhagen, Denmark

One talk on novelty search applied to RNA design.

CERTIFIED COURSES

Deep Learning Specialization | Coursera

 December 2018- March 2019

 Online

A set of 4 online non-credit courses authorized by deeplearning.ai

Complex Analysis | TUC, Faculty of Mathematics

 January 2018

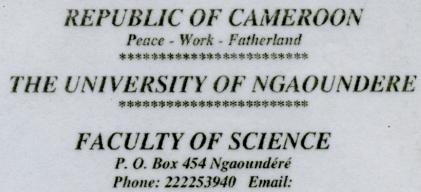
 Chemnitz, Germany

An online course which accounts for a total of 4 ETCS credits with a result of 100

LPI 101 and 102: Certified Linux Level 1 (LPIC-1) | 

 January 2015

- LPI code: LPI000334389 and verification code: yfm4sc7a49



CERTIFICAT DE REUSSITE / SUCCESS CERTIFICATE
N° C14M2005SL

Le Doyen de la FACULTÉ DES SCIENCES et le Chef de Département de MATHEMATIQUES ET INFORMATIQUE, soussignés,

21 JAN 2015

Vu le procès verbal du jury en date du _____
certifient que

We, the undersigned, The Dean of the FACULTY OF SCIENCE and The Head of the Department of MATHEMATICS AND COMPUTER SCIENCE
Mindful of the official report of the jury, hereby certify that

M. / Mr. : NONO SAHA CYRILLE MERLEAU
né le / Born on : 26/03/1992 à / at : BAFOUSSAM
Matricule / Registration N° : 09A345FS

A suivi avec succès la formation pour l'obtention du diplôme de MASTER, SCIENCES ET TECHNOLOGIES, mention INGENIERIE INFORMATIQUE, parcours SYSTEMES ET LOGICIELS EN ENVIRONNEMENTS DISTRIBUÉS.

Has successfully completed the course work for award of the degree of MASTER in SCIENCE AND TECHNOLOGY, Specialization COMPUTER ENGINEERING, Major SYSTEMS AND SOFTWARE IN DISTRIBUTED ENVIRONMENTS

et a soutenu avec succès un mémoire intitulé
and has successfully defended a thesis titled
« Méthode de détection des malwares Android basée sur les appels système.. »

Session / Session : 1 Année académique / Academic Year: 2013/2014
Mention globale / Overall Grade : Bien / Good

En foi de quoi le présent certificat lui est délivré pour servir et valoir ce que de droit.
This certificate is, therefore, issued to the above named person to serve the purposes for which it is intended.

LE CHEF DE
Le Chef de Département
The Head of Department

Dr. Nyam Achille
Chargé de Cours

Le 27 FEV. 2015
Le Doyen
The Dean

P. Bitom Dieudonné

Il est délivré qu'un seul exemplaire de certificat de réussite. Le titulaire peut établir et faire certifier des copies conformes.
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UNIVERSITE DE NGAOUNDERE - CAMEROUN
THE UNIVERSITY OF NGAOUNDERE - CAMEROON
BP. 454 NGAOUNDERE
ETABLISSEMENT : **FACULTE DES SCIENCES**
FACULTY / SCHOOL
DEPARTEMENT / DEPARTMENT **MATHEMATIQUES ET INFORMATIQUE**

RELEVE DE NOTES

TRANSCRIPT N°
13M1013S

Nom et Prénoms / Name and Surname : NONO SAHA CYRILLE MERLEAU

Date de naissance/Born on the : 26/03/1992 **à/at :** BAFOUSSAM

Matricule/Reg. N° : 09A345FS

Domaine/Area : SCIENCES ET TECHNOLOGIES

Mention/Specialisation : INGENIERIE INFORMATIQUE

Parcours/Major : SYSTEMES ET LOGICIELS EN ENVIRONNEMENTS DISTRIBUÉS

Cycle/Degree : MASTER

Année Académique/Academic Year : 2012/2013

Code Code	Intitulé de l'unité d'enseignement (UE) Course title	Note/20 Marks/20	Notation Grade	Session Session	Crédits Credits	Année Year	Semestre Semester
UNITES D'ENSEIGNEMENT FONDAMENTALES							
IIM1SL01	GÉNIE LOGICIEL 1	16,75	A-	1	6	2013	1
IIM1SL10	ARCHITECTURE DES SYSTÈMES ET DES MACHINES	10,05	D-	1	5	2013	1
IIM2SL01	GÉNIE LOGICIEL 2	16,50	A-	1	6	2013	2
IIM2SL02	CALCULABILITÉ ET COMPLEXITÉ DES ALGORITHMES	11,50	D+	1	5	2013	2
IIM2SL07	COMPILATION	15,40	B+	1	6	2013	2
INM1SL07	PROGRAMMATION PARALLELE ET APPLICATIONS DISTRIBUÉES	14,00	B-	1	5	2013	1
UNITES D'ENSEIGNEMENT OPTIONNELLES							
IIM1SL11	TECHNIQUES AVANCÉES ET SÉCURITÉ RÉSEAU	10,00	D-	1	4	2013	1
IIM2SL11	PRATIQUE DE LA SÉCURITÉ DES SYSTÈMES ET RÉSEAUX	11,65	D+	1	4	2013	2
INM1SL06	INTRODUCTION A LA PROGRAMMATION FONCTIONNELLE				4		1
INM1SL08	CRYPTOGRAPHIE ALGEBRIQUE	11,90	D+	1	4	2013	1
INM2SL03	TELEDETECTION				4		2
INM2SL08	RESEAUX D'AUTOMATES	15,70	B+	1	4	2013	2
UNITES D'ENSEIGNEMENT TRANSVERSALES							
INM2SL09	LANGUE, EXPRESSION ET COMMUNICATION	13,20	C	1	6	2013	2
MAM1SL02	MODELES PROBABILISTES	13,50	C+	1	6	2013	1

Bilan Overall Results	Total des crédits sur Total number of credits	Moyenne générale Grade Point Average	/20	Mention Grade
			60	
		13.51		C+

N.B.: E=0-6.99 F=7-9.99 D-=10-10.69 D=10.70-11.69 D+=11.30-11.99 C-=12.70-13.29 C=13.30-13.99 B-=14-14.69 B=14.70-15.29
B+=15.30-15.99 A-=16-17.29 A=17.30-18.69 A+=18.70-20



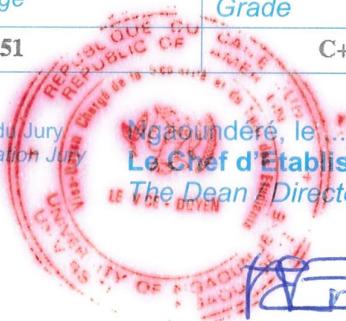
Le Chef de Département
The Head of Department

Chargé de Cours

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Ngaooundéré, le 25 SEPT. 2013.
Le Chef d'Etablissement
The Dean Director

Prof. Elias N. Nukene



UNIVERSITE DE NGAOUNDERE - CAMEROUN
THE UNIVERSITY OF NGAOUNDERE - CAMEROON
BP. 454 NGAOUNDERE
ETABLISSEMENT : **FACULTÉ DES SCIENCES**
FACULTY / SCHOOL
DEPARTEMENT / DEPARTMENT **MATHEMATIQUES ET INFORMATIQUE**

RELEVE DE NOTES

TRANSCRIPT N°

14M2006SL

Nom et Prénoms / Name and Surname : NONO SAHA CYRILLE MERLEAU

Date de naissance/Born on the : 26/03/1992 à/at : BAFOUSSAM

Matricule/Reg. N° : 09A345FS

Domaine/Area : SCIENCES ET TECHNOLOGIES

Mention/Specialisation : INGENIERIE INFORMATIQUE

Parcours/Major : SYSTEMES ET LOGICIELS EN ENVIRONNEMENTS DISTRIBUÉS

Cycle/Degree : MASTER Année Académique/Academic Year : 2013/2014

Code Code	Intitulé de l'unité d'enseignement (UE) Course title	Note/20 Marks/20	Notation Grade	Session Session	Crédits Credits	Année Year	Semestre Semester
UNITES D'ENSEIGNEMENT FONDAMENTALES							
IM4SL04	PRESENTATION ORALE DU MEMOIRE	16,50	A-	1	30	2014	4
INM3SL02	TOLERANCES AUX FAUTES	15,40	B+	1	6	2014	3
INM3SL08	MODELISATION ET SIMULATION MULTI-AGENT	15,77	B+	1	6	2014	3
INM3SL09	PRINCIPES DES SYSTEMES DISTRIBUES	14,40	B-	1	6	2014	3
UNITES D'ENSEIGNEMENT OPTIONNELLES							
IIM3SL01	CRYPTOGRAPHIE AVANÇEE	11,87	D+	1	3	2014	3
IIM3SL04	DÉVELOPPEMENT DES APPLICATIONS MOBILES	16,50	A-	1	3	2014	3
INM3SL12	PROGRAMMATION FONCTIONNELLE AVANCEE				3		3
UNITES D'ENSEIGNEMENT TRANSVERSALES							
INM3TR01	METHODOLOGIE DE LA RECHERCHE	13,50	C+	1	3	2014	3
INM3TR02	PROJET DE CREATION D'ENTREPRISE	13,40	C+	1	3	2014	3

Bilan Overall Results	Total des crédits sur Total number of credits	Moyenne générale Grade Point Average	/20	Mention Grade
	60	15,56		B+



Dr. Nyam Achille

Chargé de Cours

Il n'est délivré qu'un seul exemplaire de relevé. Le titulaire peut établir et faire certifier des copies conformes.

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Ce relevé pour être valide, ne doit contenir ni surcharge, ni rature./This Transcript is Not authentic if it contains modifications.

Prof. Elios N. Nkemiong

N.B.: F=0-6,99 F+=7,99 F++=7,99 D=>10-16,69 D+=10,70-11,29 D++=11,30-11,99 C=>12,70-12,69 C+=12,30-13,99 C++=14-14,69 B=>14,70-15,29
B+=15,30-15,99 A=>16-17,29 A+=17,30-18,69 A++=18,70-20



AIMS

African Institute for
Mathematical Sciences
GHANA

Certificate Of Completion

MASTER'S IN MATHEMATICAL SCIENCES

Awarded to

NONO SAHA CYRILLE MERLEAU

For the

2017/2018 Academic Year

Conferred on this Thirtieth Day of June, Twenty Eighteen

Prof. Edward S. Ayensu (Chairman)

Prof. Jophus Anamuah-Mensah (Academic Director, Ag.)

UNIVERSITY OF GHANA



This is to Certify that

NONO SAHA CYRILLE MERLEAU
of African Institute for Mathematical Sciences, Ghana

having passed the prescribed Examination has
on the 30th day of June 2018

been admitted to the degree of
Master of Science

in

Mathematical Sciences

Seal

10694056

Registrar

TRANSCRIPT OF ACADEMIC RECORD

Name: Nono Saha Cyrille Merleau
 Degree awarded: Master of Science
 Major: Mathematical Sciences

Date of birth [m-d-y]: 03-26-1992
 Sex: M
 Award date: June, 2018

Code	Course Description
------	--------------------

Skill Courses (Core)		
MSCI 501/601	Mathematical Preliminaries and LaTe _X	Good Pass
MSCI 503/603	Introduction to Scientific Computing with Python	Good Pass
MSCI 561/661	Probability and Statistics with an Introduction to R	Good Pass
MSCI 507/607	Concepts in Physics and Physical Problem Solving	Good Pass
MSCI 553/653	Topics in Entrepreneurship and Professional Development	Good Pass

Code	Course Description	Mark(%)	Grade
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Review Courses (Elective)			
MSCI 571/671	A Course on Differential Equations	66	Pass
MSCI 535/635	Advanced Numerical Analysis and Scientific Computing using Python	73	Good Pass
MSCI 573/673	Complex Networks with Computations	78	Good Pass
MSCI 564/664	Statistical Modelling	74	Good Pass
MSCI 558/658	The life of a Particle	89	Distinction
MSCI 528/628	Complex Analysis	72	Good Pass
MSCI 554/654	Knot Theory	71	Good Pass
MSCI 576/676	Mathematical Biology	74	Good Pass
MSCI 568/668	Noncommutative Geometry and Quantum Algebra	74	Good Pass
MSCI 596/696	Pattern Recognition and Machine Learning	88	Distinction
MSCI 526/626	Lie Algebra and Lie Groups	84	Good Pass

Research Phase			
MSCI 500/600	Evaluation of Libraries Implementing Symbolic Regression	81	Good Pass

Overall Mark	78	Good Pass
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AFRICAN INSTITUTE FOR
MATHEMATICAL SCIENCES
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P. O. BOX DL 676
ADISADEL-CAPE COAST
PHC/N 031 2290961

Academic Director

RÉPUBLIQUE DU CAMEROUN
Paix - Travail - Patrie

UNIVERSITÉ DE NGAOUNDÉRÉ

TOU
FACULTE DES SCIENCES
BP 454 NGAOUNDÉRÉ
Tél.: (237)22254020



RÉPUBLIQUE OF CAMEROON
Peace - Work - Fatherland

THE UNIVERSITY OF NGAOUNDERE

FACULTY OF SCIENCE
P. O. Box 454 NGAOUNDERE
Phone: (237)22254020

CERTIFICAT DE REUSSITE / SUCCESS CERTIFICATE N° C12L3028AR

Le Doyen de la FACULTE DES SCIENCES et le Chef de Département de MATHEMATIQUES ET INFORMATIQUE, soussignés,

Vu le procès verbal du jury en date du 05 AOUT 2012
certifient que

We, the undersigned, Dean of the FACULTY OF SCIENCE and Head of the Department of MATHEMATICS AND COMPUTER SCIENCE

Mindful of the official report of the jury, hereby certify that

M. / Mr. : NONO SAHA CYRILLE MERLEAU
né le / Born on : 26/03/1992 à / at : BAFOUSSAM
Matricule / Registration N° : 09A345FS

A suivi avec succès la formation pour l'obtention du diplôme de LICENCE SCIENCES ET TECHNOLOGIES mention MATHEMATIQUES ET INFORMATIQUE parcours ARCHITECTURE ET RESEAUX
Has successfully completed the course work for award of the degree of BACHELOR OF SCIENCE in SCIENCE AND TECHNOLOGY Specialization MATHEMATICS AND COMPUTER SCIENCE Major ARCHITECTURE OF SYSTEMS AND NETWORKS

Session / Session : 2 Année académique / Academic Year : 2011/2012
Mention globale / Overall Grade : Assez-Bien / Fairly Good

En foi de quoi le présent certificat lui est délivré pour servir et valoir ce que de droit.
This certificate is, therefore, issued to the above named person to serve the purposes for which it is intended.

Le Chef de Département
The Head of Department

Professeur Brigitte D.

Ngaoundéré, le / on 28 AOUT 2012
Le Doyen
The Dean

Il n'est délivré qu'un seul exemplaire de certificat de réussite. Le titulaire peut établir et faire certifier des copies conformes.
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