

NGOUEYOU TONDJI LIONEL

Personal Information

Nationality Cameroonien
Cell Phone +250 789 449 985
Email tngoupeyou@aimsammi.org || lionel.ng.tondji@aims-senegal.org
LinkedIn <https://www.linkedin.com/in/lionel-ngoupeyou-tondji-057a25128/>
Github [github/tondji](https://github.com/tondji)
Website <https://tondji.github.io/>
Address KG 42.0 ST Gasabo, Kigali, Rwanda

Objective

Looking for a challenging prospect to get more learning opportunities in a reputed organization, where I will be able to utilize my knowledge and skills to achieve better results for the organization as well as to develop my career.

Education

September 2018– **MSc in Machine Intelligence**, *African Master in Machine Intelligence (AMMI-Rwanda)*, Kigali, Rwanda.
Nowadays Main Courses: Programming, Algorithms and Data Structures Bootcamp, Foundations of Machine Learning, Foundations of Deep Learning, Practical Machine/Deep Learning tools, Pytorch/TensorFlow
August 2016– **MSc in Mathematical Sciences**, *AIMS-Senegal*, Mbour, Senegal.
February 2018 Main Courses: Machine Learning, Neural Networks, Deep Learning, Recommender systems, Natural Language processing(NLP), Database, Big data, Statistics with R, Data Analysis, Numerical problem solving, Number Theory, Analytic Number Theory, Elliptic Curve, Quantum mechanics, Partial differential Equation (PDE), Ordinary differential Equation and dynamical systems (ODE), Functional Analysis
Thesis : Design and Implement a decision support tool for jobs seekers and recruiters using machine learning techniques
Grade : Distinction
Rank : First

2011–2016 **MSc in Mathematical Sciences**, *Universite de Yaounde I*, Yaounde, Cameroon.
Main Courses: Algebraic Geometry, Algebraic Codes, Cryptography, Categories Theory, Algebraic Curves, Quantum Mechanics, Logic and Universal Algebra, Lie Algebra, Partial Differential Equation (PDE), Non Local Analysis, Optimization Problems, Algebra, Numerical Analysis, Mathematical Modeling, Computer Sciences
Thesis : Primality Tests (AKS, Miller-Rabin and Solovay-Strassen)
Rank : Third

Work Experience and Internships

June–July 2018 **Leibniz Centre for Tropical Marine Research (ZMT)**, *Student Intern In Ecological modelling for investigating human-ressource interactions in the tropics : Use case on Easter Island*, Fahrenheitstraße 6; 28359 Bremen, Germany.
Developing and implementing an Agent Based Model (ABM) to study the human-resource interactions of historical civilizations
May–Nov 2017 **African Digital Native (ADN)**, *Research Intern Machine Learning and Natural Language Processing*, Dakar, Senegal.
Developing and implementing some algorithms for Jobs Advertisement plateforme and implementing some machine learning algorithms for Recommender systems

Professional Qualification and Certifications

March 2018 **Version Control with Git.**
Coursera online course from Atlassian :
<https://www.coursera.org/account/accomplishments/records/2M56FP3XV4HC>
February 2018 **Deep Learning Specialization.**
Coursera online course from Deeplearning.ai :
<https://www.coursera.org/account/accomplishments/specialization/7JRVH7M9UJDT>
October 2017 **Python Specialization.**
Coursera online course from Michigan University :
<https://www.coursera.org/account/accomplishments/specialization/67X4DASSRZJC>
September 2017 **Machine Learning Foundations: A Case Study Approach.**
Coursera online course from University of Washington :
<https://www.coursera.org/account/accomplishments/records/H8QRP6Z7GNK9>
August 2017 **Machine Learning.**
Coursera online course from Stanford University :
<https://www.coursera.org/account/accomplishments/records/JPW9B7ACBT7D>

Leadership and Community service

LeaderShip.
2017 - 2018 Member of the Coursera Beta Tester Community
2012 - 2015 General Secretary of the Nde association student group
Give Back Event.
Nov 2016 Storage and Recording of Aims-Senegal library book
Dec 2016 Cleaning and Working at Mbour nursery

Awards, Grants and Honours

- 2018–2019 Scholarship from Facebook and Google for the African Master in Machine Intelligence (AMMI - Rwanda)
- 2017-2018 Award from the International Youth Math Challenge (IYMC)
- 2017-2018 Atos IT Challenge 2018, Chatbot and AI, top 10
- 2017-2018 Student Travel Award (ICTP-CIMPA School in Ivory Coast)
Student Travel Award (CIMPA School in Morocco)
Student Travel Award (Atelier PARIGP 2018 in France)
- 2016–2018 Scholarship from the Foundation Mastercard for the Co-operative Master at African Institute for Mathematical Sciences Senegal
- 2013 - 2015 Award excellence from the Cameroonian head of states

Personal Skills and Competences

- Technical skills Problem Solving, Optimization Problems, Mathematical Modeling, Machine Learning, Data Analysis, Numerical Analysis, PDE, ODE, Geometry
- Computer skills Python, Latex, Maple, Pari/GP, MATLAB/Simulink, Octave, Java, Freefem++, Django Framework, Jupyter Notebook, Microsoft Office, HTML5, CSS3, Android Studio, R Studio, C, Octave, Linux
- Social skills Teamwork, Social, ability to work independly, excellent listener, critical thinking, sense of analysis, dynamic, capacity to work under pressure, passionate about mathematics research
- Productivity and Projects Management skills Agil method, versions control (Git, Bitbucket), productivity tools (Vim), Pycharm
- Language skills French (Fluent), English (Fluent)

Conference and Seminars

- 6th - 16th March, 2018 **Cimpa School on "Algèbre non associative. Aspects analytique, géométrique et applications"**, *Casablanca, Morocco*, Hassan II University.
- 5th - 9th February, 2018 **Winter-School on "Exploring Complex Systems using Computational Tools"**, *Mbour, Senegal*, AIMS-Senegal and the Leibniz Centre for Tropical Marine Research.
- 10th - 22th April, 2017 **ICTP-CIMPA School on "Algebraic Number Theory and applications especially in Cryptography"**, *Abidjan, Ivory Coast*, Felix Houphouet-Boigny University.
- March–2016 **An Introduction to Symplectic geometry**, *African Institute for Mathematical Sciences, Mbour, Senegal*.
Prof. AUGUSTIN BANYAGA, Distinguished Senior scholar, From The Pennsylvania States University, USA

References

Pr. Aïssa Wade.

President of African Institute for Mathematical Sciences (Senegal)
Penn State University, USA
Tel: +221 77 832 05 81
Email: aissa.wade@aims-senegal.org

Pr. Filip Najman.

Professor
University of Zagreb, Croatia
Email: filip.najman@gmail.com

Pr. Tabea Rebařka.

Professor
Universite Pierre et Marie Curie, France
Tel: +33 665596112
Email: tabea.rebafka@upmc.fr
Website: http://www.proba.jussieu.fr/pageperso/rebafka/index_engl.html
Address: Tower 15-16, 2nd floor, office 144 place Jussieu 75005 Paris

Dr. Daniel Fiorilli.

Assistant Professor
University of Ottawa
Contact no: +1 (514) 583-0925
Email: Daniel.Fiorilli@uottawa.ca