



Merlin MOUAFO WOUODJIE

Curriculum Vitae

Personal Data

Date of Birth 26-09-1986
Place of Birth Yagoua, Cameroon
Gender Male
Citizenship Cameroon
Status Single
Street/Number Universitätsplatz 1, Zimmer 110
Zip Code/city 34127 Kassel
State Hessen
Country Germany
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Education

2015–2018 **Ph.D. Student**, *The University of Kassel, Germany.*
2014–2015 **Ph.D. Student**, *The University of Yaoundé I, Cameroon.*
2013–2014 **Master's degree**, *African Institute for Mathematical Sciences (AIMS-Cameroon).*
2010–2012 **Master's degree**, *The University of Yaoundé I, Cameroon.*
2008–2009 **Postgraduate qualification**, *The University of Douala, Cameroon.*
2007–2008 **Bachelor's degree (LICENCE)**, *The University of Douala, Cameroon.*
2006–2007 **second-year university diploma (DEUG)**, *The University of Douala, Cameroon.*
2003–2004 **Baccalaureate option C**, *Lycée of Nylon Ndogpassi, Cameroon.*

Current Status

2015–2018 **Ph.D. Student**, *The University of Kassel, Germany.*

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Masters Thesis

- Title *On Multivariate Bernstein Polynomials*
Supervisor Professor Mama Foupouagnigni
- Title *On the Solutions of Holonomic Second-order Differential Equations In Terms of Bessel Functions*
Supervisors Professor Mama Foupouagnigni & Professor Wolfram Koepf

Ph.D Thesis

- Title *On Solutions of Third-order Linear Homogeneous Differential Equations in Terms of ${}_pF_q$ Functions, $p \leq q$*
Supervisors Professor Mama Foupouagnigni & Professor Wolfram Koepf

Experience

Professional

- 2014–2015 **Teaching Assistant**, *African Institute for Mathematical Sciences*, Cameroon.

Vocational

- 2013 **Internship**, *MINESUP*, Schooling (university of Yaoundé I).
Cameroon
- 2009 **Internship**, *MINESUP*, Schooling (university of Douala).
Cameroon
- 2008 **Work study programm**, *MINESUP*, DAAF (university of Douala).
Cameroon
- 2007 **Internship**, *MINESUP*, DCOU (university of Douala).
Cameroon

Miscellaneous

- 2013-2014 **Tutorial for my master classmates and helping them to understand the subject matter**, *African Institute for Mathematical Sciences (AIMS)*, Cameroon.
- 2010-2012 **Tutorial for my master classmates and helping them to understand the subject matter**, *University of Yaoundé I*, Cameroon.
- 2009-2010 **Preparation groups for competition in engineering school (ISSEA, IUT, ENSET, ASECA)**, *Ange Rafaël (Douala)*, Cameroon.
- 2008-2009 **Assessment of first and second year students in mathematics**, *University of Douala*, Cameroon.

Awards

- 2017–2018 **University of Kassel Scholarship**, *for PhD students*, to finish my PhD Thesis.
Germany
- 2016–2017 **DAAD Scholarship**, *German Academic Exchange Service*, Research Grants-Bi-nationally Supervised Doctoral Degrees.
Germany

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- 2015–2016 **DAAD Scholarship**, *German Academic Exchange Service*, Research Grants-Bi-nationally Supervised Doctoral Degrees.
Germany
- 2013–2014 **Best student at AIMS-Cameroon**, *with Distinction*, African Institute for Mathematical Sciences.
Cameroon
- 2011–2014 **Presidential Excellence Grants**, University of Yaoundé I.
Cameroon
- 2010–2012 **First of the batch in Master's degree**, *with 3.47/4*, University of Yaoundé I).
Cameroon
- 2008–2009 **First of the batch in Postgraduate qualification**, *with 12,86/20*, University of Douala.
Cameroon

Computer skills

- Basic JAVA, C/C++
- Advanced MAPLE, PYTHON, SAGE, MAXIMA, MATHEMATICA, \LaTeX , UBUNTU, OPENOFFICE, Microsoft WINDOWS, Computer Hardware and Support

Public talks

- 2014 **AIMS-Cameroon**, *Frobenius method for solving second-order linear differential equations*.
- 2013 **AIMS-Cameroon Wednesday seminar**, *Analytic Continuation*.
- 2013 **AIMS-Cameroon**, *Solving second-order linear differential equations with rational coefficients*.

Attended Conferences

- Aug, 2016 **Kassel-Germany**, *22nd Conference of Applications of Computer Algebra (ACA)*.

Attended Seminars

- Nov 20, 2013 **AIMS-Cameroon**, *The fundamental nature of matter*, David ASCHMAN, Professor of Physics University of Cape Town, South Africa.
AIMS-Cameroon, *Homogenization theory of partial differential equations: a short introduction*, Hermann Yonta Douanla, Ph.D. in Mathematics, Cameroon.
- Nov 27, 2013 **AIMS-Cameroon**, *An Introduction to Orthogonal Polynomials and Applications*, Mama FOUPOUAGNIGNI, Associate Professor of Mathematics, Academic Director, AIMS-Cameroon, University of Yaounde I.
AIMS-Cameroon, *Applying Computational tools to the study of human diseases*, Gaston KUZAMUNU MAZANDU, Ph.D. in Mathematics, Institute of Infectious Disease and Molecular Medicine University of Cape Town, South Africa.

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- Dec 04, 2013 **AIMS-Cameroon**, *Asymptotic Linear Arbitrage in Discrete-Time Financial Markets Recent Works and Current Research Thinkings*, Mbele Bidima Martin Le Doux, Ph.D. in Mathematics, University of Yaounde I.
- Dec 11, 2013 **AIMS-Cameroon**, *Why the world needs Mathematical Scientists*, David STERN, Ph.D. in Mathematics, Director, Project Development, AIMS-Ghana, NEI-Secretariat .
- AIMS-Cameroon**, *An introduction to quantum mechanics concepts with applications in biology* , Etienne WAMBA, Ph.D. in Mathematics, University of Yaounde I.
- Dec 18, 2013 **AIMS-Cameroon**, *Galois Theory in Algebraic Geometry*, Marco Andrea GARUTI, Professor of Mathematics, Department of Mathematics, University of Padova, Italy.
- AIMS-Cameroon**, *Tight extensions of T_0 -quasi-metric spaces* , Collins Amburo Agyingi, Ph.D. student in Mathematics, University of Cape Town, South Africa .
- Jan 08, 2014 **AIMS-Cameroon**, *The mathematics of juggling: theory and applications*, David PERKINSON , Ph.D. in Mathematics, Reed College, Portland OR, USA.
- AIMS-Cameroon**, *Duality methods for the viscoplastic flow simulation*, Tsiry Randrianasolo, Ph.D. student in Mathematics, Montanuniversität Leoben.
- Jan 15, 2014 **AIMS-Cameroon**, *Cosmology and the Geometry of Extra Dimensions*, Vishnu Jejjala, Professor of Mathematics, University of the Witwatersrand, South Africa.
- AIMS-Cameroon**, *Homology of Cubical Complexes: Computation and Application*, Zerihun Gebremariam , Ph.D. student in Mathematics, University of Yaounde I, Cameroon.
- Jan 22, 2014 **AIMS-Cameroon**, *Kornyi's Lemma on homogeneous Siegel domains of type II. Applications and extensions of results*, David Békollé , Professor of Mathematics, University of Ngaoundéré, Cameroon.
- AIMS-Cameroon**, *Banach limits*, Collins Amburo Agyingi, Ph.D. student in Mathematics, University of Cape Town, South Africa.
- Feb 05, 2013 **AIMS-Cameroon**, *KV-Cohomology of locally flat manifolds*, Ngakeu Ferdinand , Doctor of Mathematics, University of Douala, Cameroon.
- AIMS-Cameroon**, *On hypergeometric functions*, Mama FOUPOUAGNIGNI , Associate Professor of Mathematics, Academic Director, AIMS-Cameroon, University of Yaounde I .
- Feb 12, 2014 **AIMS-Cameroon**, *A Quick tour on research interests and prospects*, Habil. Anatole Kenfack , Doctor of Mathematics, Institute of Chemistry and Biochemistry, Freie Universitaet Berlin, Germany .
- AIMS-Cameroon**, *Soft set theory revisited: a category theoretical approach and functor categories with parameters* , Doctor of Mathematics, Assistant Lecturer, University of Yaounde I, Cameroon.
- Mar 12, 2014 **AIMS-Cameroon**, *A brief history of the soliton*, Patrick Dorey , Professor of Mathematics, Durham university, United Kingdom.
- Mar 19, 2014 **AIMS-Cameroon**, *The Science of Computing*, Jeff W. Sanders, Professor of Mathematics, AIMS-South-Africa, the University of Stellenbosch, South Africa.

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- Mar 26, 2014 **AIMS-Cameroon**, *Teaching statistics – coming down from the mountains*, Roger STERN , Doctor of Mathematics, Statistical Services Centre, University of Reading, United Kingdom.
- Apr 02, 2014 **AIMS-Cameroon**, *Novel Approaches in Mathematical Modelling of the Dynamics of Malaria Transmission: Mosquito centred models*, Gideon A. Ngwa, Associate Professor of Mathematics, University of Buea, Cameroon.
- AIMS-Cameroon**, *Cost effectiveness analysis of hospitalization and home-based care for people living with HIV/AIDS in high prevalence settings*, Senelani D. Hove-Musekwa, Associate Professor, National University of Science and Technology, Zimbabwe.
- Apr 09, 2013 **AIMS-Cameroon**, *Quantum measurement: a remaining scientific paradox*, Karl-Erik Eriksson , Professor of Mathematics, Department of Engineering Sciences, University of Karlstad, Sweden.
- AIMS-Cameroon**, *Optimal Stock Investment Portfolio with Stochastic Constraints then A Dynamical Model of Cancer Chemotherapy with Disturbance*, Henri Jimbo, Associate Professor of Mathematics, Waseda University, Tokyo, Japan.
- Apr 16, 2014 **AIMS-Cameroon**, *A brief introduction to Dynamical Systems* , Isabel RIOS, Professor of Mathematics, Universidade Federal Fluminense, UFF, Brazil.
- Apr 23, 2013 **AIMS-Cameroon**, *African participation in global climate research and in peace efforts*, Karl-Erik Eriksson, Professor of Mathematics, Department of Engineering Sciences, University of Karlstad, Sweden.
- AIMS-Cameroon**, *Stochastic Optimal Control in Finance: A Markov Dynamic Programming Principle*, Mbele Bidima Martin Le Doux, Doctor of Mathematics, Assistant Lecturer, University of Yaounde I, Cameroon.
- Apr 30, 2013 **AIMS-Cameroon**, *Intégrité dans le secteur universitaire: cas de AIMS*, Barrister Nico Halle , Mr. Nico Halle, Co Law Firm. P. O. Box 4876 Douala, Cameroon.
- Sep 10, 2014 **AIMS-Cameroon**, *How to choose method in computational electromagnetics* , Oskar TALCOTH, Doctor of Physics.
Teacher Assistant at AIMS, Cameroon
- Oct 01, 2014 **AIMS-Cameroon**, *Twisted KV-cohomology* , Ngakeu Ferdinand , Doctor of Mathematics, University of Douala, Cameroon.
- Apr 30, 2013 **AIMS-Cameroon**, *Designing an integrative framework to study complex diseases and improve chemotherapy*, Gaston K. Mazandu , Ph.D. in Mathematics, Institute of Infectious Disease and Molecular Medicine University of Cape Town, South Africa

Research Interests

- programming
- Special Functions
- Orthogonal polynomials
- Hypergeometric Functions
- Differential Equations

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- Analysis
- Algebra
- Mathematics

— Languages

Bamiléké	fluently
French	fluently
English	good
German	average
Arabic	elementary

— Hobbies

- Singing
- Dancing
- Reading
- Football
- Gymnastic
- Travel
- Movies
- Swimming