



AIMS

African Institute for
Mathematical Sciences
CAMEROON

AIMS - Cameroon
Limbe, Crystal Gardens, South-West
Region
P.O. Box 608 Limbe, Cameroon

AIMS Cameroon Provisional Academic Agenda 2022-2023

| Climate Courses | | Fundamental Courses | | Data Science Courses | | | |
|-----------------|-----------------------|---------------------------|---------------------------------|--|---|--|----------------------|
| N° | Phase | Period | Type of activity | Course/Activity title | Lecturers | Email Addresses | Affiliation |
| OR | Welcome & Orientation | August 22-27 | Arrival | | | | |
| | | | Orientation | AIMS Staff | | AIMS Cameroon | |
| | | | Orientation & Language Training | Caroll Roselyne Zoula Evina & Mengue Evina Patrick | Carol_roselyne27@yahoo.fr & patmengueevina@gmail.com | GBHS Limbe | |
| | | | Computing | Introduction to Latex | Dr. Daniel Duviol Tcheutia | daniel.tcheutia@aims-cameroon.org | AIMS Cameroon |
| SC1.1a | Skills Phase | August 29 - September 17 | Skills block 1 | Introductory Programming with Python | Nathalie Wandji and Dr. Daniel Duviol Tcheutia | nathalie.wandji@aims-cameroon.org | AIMS Cameroon |
| SC1.2 | | | | Mathematical Problem Solving | Pr. Ferdinand Ngakeu | fngakeu@yahoo.fr | University of Douala |
| SC1.3a | | | | Refresher (Linear Algebra) | Dr. Daniel Tcheutia and Tutors | daniel.tcheutia@aims-cameroon.org | AIMS Cameroon |
| SC1.1b | | | | Introduction to Linux and Bash Scripting | Nathalie Wandji and Dr. Daniel Duviol Tcheutia | nathalie.wandji@aims-cameroon.org | AIMS Cameroon |
| SC2.1 | | September 19 - October 08 | Skills block 2 | Computational Mathematics with SageMath | Dr. Daniel Duviol Tcheutia | daniel.tcheutia@aims-cameroon.org | AIMS Cameroon |
| SC1.3b | | | | Refresher (ODE) | Dr. Daniel Tcheutia and Tutors | daniel.tcheutia@aims-cameroon.org | AIMS Cameroon |
| SC2.2 | | | | Concepts in Physics and Physical Problem Solving | Dr. Etienne Wamba | etienne@aims-cameroon.org | University of Buea |
| SC2.3 | | | | Entrepreneurship and Professional Development | Dr. Jean-Paul Mvogo | jeanpaulmvogo@gmail.com | Sciences Po, Paris |



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| SC3.1 | Skills Phase | October 10 - 29 | Skills block 3 | Introduction to Quantum Mechanics | Dr Collins Akosa | collins.akosa@aoni.waseda.jp | Waseda University, Tokyo |
| SC3.2 | | | | Solving Problems in Statistics and Data Science | Prof. Roger Stern | r.d.stern@reading.ac.uk | Reading University |
| SC1.3c | | | | Refresher (Measure & Probability) | Dr. Daniel Tcheutia and Tutors | daniel.tcheutia@aims-cameroon.org | AIMS Cameroon |
| | | October 31 - November 05 | Local Workshop | Entrepreneurship and Professional Development / Programming Forum | | | |
| RC1.1 | Review Phase | November 07 - 26 | Review Block 1 | Statistical Inference | Dr. Ziad Taib | ziadtaib@hotmail.com | Atlas Biostat |
| RC1.2 | | | | High Dimension Data Analysis | Dr. Chamberlain Mba | chamberlain.mbah@tobania.be | Gent University |
| RC1.3 | | | | Introduction to Climate Science and Climate Modelling | Dr. Bamba Sylla | sylla.bamba@aims.ac.rw | AIMS Rwanda |
| RC1.4 | | | | Introduction to Algebraic Geometry | Dr Diletta Martinelli | d.martinelli@uva.nl | University of Amsterdam |
| RC2.1 | | November 28 - December 17 | Review Block 2 | Mathematical Methods for Climate Science | Prof. Babatunde J. Abiodun | babiodun@csag.uct.ac.za | University of Cape Town |
| RC2.2 | | | | Network Science | Prof. Frank Kalala | franckm@aims.ac.za | University of Lumumbashi |
| RC2.3 | | | | Atmospheric Physics and Climate Dynamics | Prof. Babatunde J. Abiodun | babiodun@csag.uct.ac.za | University of Cape Town |
| RC2.4 | | | | Numerical Optimization | Prof. Antoine Tambue | antonio@aims.ac.za | Western Norway University of Applied Sciences |
| RC1.4 | | | | Stochastic Analysis | Prof. Mamadou Abdoul Diop | mamadou-abdoul.diop@ugb.edu.sn | Gaston Berger University, Saint Louis |
| | | | | | December 19 - January 02 | | Christmas Holidays |



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| | | January 03 - 07 | Local Workshop | Introduction to Data Preprocessing and Feature engineering Techniques in Machine Learning | | | |
| RC3.1 | Review Phase | January 09 - 28 | Review Block 3 | Data Science (Supervised and Deep Learning) | Dr. Bubacar Bah | bubacarr@aims.ac.za | AIMS South Africa |
| RC3.2 | | | | Data Analysis | Prof. Jane Hutton & Prof Julia Mortera | j.l.hutto@warwick.ac.uk & mortera@os.uniroma3.it | University of Warwick & Universita degli Studi Roma Tre |
| RC3.3 | | | | Functional Analysis | Prof. Moustapha Sene | moustapha2.sene@ugb.edu.sn | Gaston Berger University, Saint Louis |
| RC3.4 | | | | Groups, Rings and Fields with Application to Coding Theory and Cryptography | Prof. Hans-Georg Rück | rueck@mathematik.uni-kassel.de | Universität Kassel |
| RC4.1 | | January 30 - February 18 | Review Block 4 | Number theory | Prof. Michel Waldschmidt & Prof. Florian Luca | michel.waldschmidt@imj-prg.fr & florian.luca@wits.ac.za | University of the Witwatersrand & Université Sorbonne |
| RC4.2 | | | | Machine Learning (Supervised and Unsupervised Algorithms) | Dr. Olushina Olawale AWE | olawaleawe@gmail.com | Global Humanistic Universit |
| RC4.3 | | | | Financial Mathematics | Prof. Dr. Ralf Wunderlich | ralf.wunderlich@b-tu.de | BTU Cottbus |
| RC4.4 | | | | Big Data Analytics with Python | Dr. Dunstan Matekenya | dmatekenya@gmail.com | Wold Bank Group |
| | | February 20 - 25 | Local Workshop | Entrepreneurship and Professional Development / Programming Forum | | | |
| RC5.1 | Review Phase | February 27 - March 18 | Review Block 5 | Machine Learning Made Easy | Prof. Jeff Edmonds | jeff@cse.yorku.ca | York University |
| RC5.2 | | | | Advanced Data Science | Dr. Ndeye Niang Keita | ndeye.niang_keita@cnam.fr | CNAM, Paris |
| RC5.3 | | | | Statistical Climatology | Prof. Roger Stern | r.d.stern@reading.ac.uk | Reading University |
| RC5.4 | | | | Introduction to Quantum | Information Theory | Prof. Andreas Buchleitner | abu@uni-freiburg.de |



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| RC5.5 | Phase | | | Cryptography | Prof. Giulio Codogni | codogni@mat.uniroma2.it | the University of Roma Tor Vergata |
| RC6.1 | | March 20 - April 08 | Review Block 6 | Numerical Analysis with Python | Aurelle Tchagna Kouanou | tkaurelle@gmail.com | University of Buea |
| RC6.2 | | | | Natural Language Processing | Prof. Elvis Ndah | elvis.ndah@gmail.com | University of Ghent |
| RC6.3 | | | | Mathematical Modelling with Python | Dr. Nourridine Siewe | nourridine@aims.ac.za | Rochester Institute of Technology |
| | | April 10 - May 20 | Essay Phase | Working on Essay Topics (6 weeks) | Supervisors | | |
| | | May 22 - June 03 | Preparation for Defense | Additional Reading and Rehearsals | | | |
| | | June 05 - June 16 | Defenses | Oral Presentations | | | |
| | | June 17 - June 22 | Preparation for Graduation | Preparation for Graduation + Volunteering | | | |
| | | Jun 23, 24 | Graduation Day | | | | |
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| | Departures | June 24 - June 30 | | | | | |