

WINTER SCHOOL

Applied Non-Linear Dynamics & Scientific Writing

M'Bour, Senegal, 4–8 February 2019

The Winter School will be held at the African Institute for Mathematical Sciences (AIMS) in Senegal. The school is particularly designed for students in mathematics, physics, and theoretical ecology interested in learning how to describe complex, non-linear natural phenomena with computational tools.

Basic knowledge in non-linear dynamics, differential equations and python programming are pre-requisites for the application. The school is complemented with a module on Scientific Writing.

Apply now online: goo.gl/CpzTwn

Deadline: 31st October 2018

ORGANISERS

Dr. Jailson F. Moura • Leibniz Centre for Tropical Marine Research - ZMT, Germany
Prof. Dr. Agostino Merico • Leibniz Centre for Tropical Marine Research - ZMT, Germany
Prof. Dr. Moustapha Fall • African Institute for Mathematical Sciences - AIMS, Senegal



DAAD



Winter School 2019

Applied Non-Linear Dynamics & Scientific Writing

African Institute for Mathematical Sciences (AIMS), Senegal, 4–8 February 2019

The winter school will be held at the African Institute for Mathematical Sciences (AIMS) in Senegal. Lecturers from the Leibniz Centre for Tropical Marine Research (ZMT) will guide the learning process. The school also wishes to promote a cultural exchange among students with different backgrounds.

The Programme

The winter school is aimed at enthusiastic BSc, MSc and PhD students from German academic or research institutions.

The school is divided into two parts. In the first part, three main fields of application (*one per day*) will be considered: climate (*day 1*), biogeochemistry (*day 2*), and ecology (*day 3*). The second part (*day 4 and 5*) will focus on scientific writing and will cover the major aspects of the writing process, including the aims of a scientific article, the standard formats, the crafts involved in writing, and the elements of a good writing style. Several additional aspects will be presented and discussed, including the review process.

Lecturers

Lecturers from the Leibniz Centre from Tropical Marine Research and the African Institute for Mathematical Sciences:

- Prof. Dr. Agostino Merico • Dr. Jailson F. Moura
- Dr. Alexia Raharinirina • Dr. Lucy Gwen Gillis
- Mr. Kwabena Owusu

Application deadline: 31 October 2018

Contact: jailson.moura@leibniz-zmt.de

Pre-requisites & Costs

The school will focus on the applications. Therefore, a basic knowledge of non-linear dynamics and the related mathematical techniques (mainly how to numerically solve systems of coupled non-linear differential equations) as well as programming in python are pre-requisites. Knowledge about climate, biogeochemistry, and ecology is not essential.

Funding, which will cover all costs (including travel, accommodation, and food), is available for 5 students. The selection process will start right after the application deadline. Selection will be based mainly on student's motivation, which will be assessed from the half-page motivation letter and, if necessary, via personal or skype meetings.

How to apply

Applications are welcome! The interested students can apply by filling out an online form and by uploading a letter of motivation (only half page) and CV in one single PDF file at:

goo.gl/CpzTwn

