



WINTER SCHOOL

Exploring complex systems using
computational tools

M'Bour - Senegal 03 - 09 February 2018

The Winter school will be held at the African Institute for Mathematical Sciences (AIMS) in Senegal and is targeted at enthusiastic MSc and PhD students with a keen interest in computational sciences, advanced knowledge in mathematical or numerical disciplines is not required. The course will cover different topics, including:

- spreading of diseases • predator-prey interactions •
- earth system regulation • human cooperation • evolution

Apply now, send your CV and motivation letter to: jailson.moura@leibniz-zmt.de

ORGANIZERS

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ZMT 
LEIBNIZ CENTRE
for Tropical Marine Research



AIMS | African Institute for
Mathematical Sciences
SENEGAL



DAAD

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International Winter School 2018

Exploring complex systems using computational tools

African Institute for Mathematical Sciences - AIMS, Senegal, 03-09 February 2018

Mathematical modelling skills are a growing requirement in scientific undertakings. In the upcoming winter course at AIMS Senegal, we will provide an opportunity to enthusiastic students to learn and discuss modelling techniques in relation to fascinating ecological and socioeconomic problems.

The Programme

This winter school aims at exploring complex systems using state-of-the-art modelling methods, including differential equations and agent-based modelling. Both approaches will be applied to a number of topics using python. The topics include spreading of diseases, predator-prey interactions, earth system regulation, human cooperation, and evolution. An overview on mathematical modelling and on the python language will smoothly introduce students into the topics. The winter school will be held at the African Institute for Mathematical Sciences (AIMS) in Senegal. Lectures from the Leibniz Centre for Tropical Marine Research (ZMT) will guide the learning process. The school also wishes to promote a cultural exchange between German and African students.

Lecturers

Lecturers from the Systems Ecology Group, Leibniz Centre for Tropical Marine Research, Bremen, Germany

Prof. Dr. Agostino Merico & Dr. Jailson F. Moura

Participation & Costs

The winter school is aimed at enthusiastic MSc and PhD students. Applicants should have a keen interest in computational sciences; advance knowledge or background in mathematical or numerical disciplines is not required. Participation is limited to 15 students. Funding, which will cover all costs (including travel, accommodation, and food), is available for 6 students. The selection process will start right after the application deadline. The selection and the assignment of funding will be based mainly on student motivation, which will be assessed via personal or skype meetings.

How to apply

Applications are welcome. The interested students can send a CV and a brief letter of motivation (no more than half a page!) both in PDF format to: jailson.moura@leibniz-zmt.de

Application deadline: 31 October 2017



AIMS African Institute for
Mathematical Sciences
SENEGAL



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