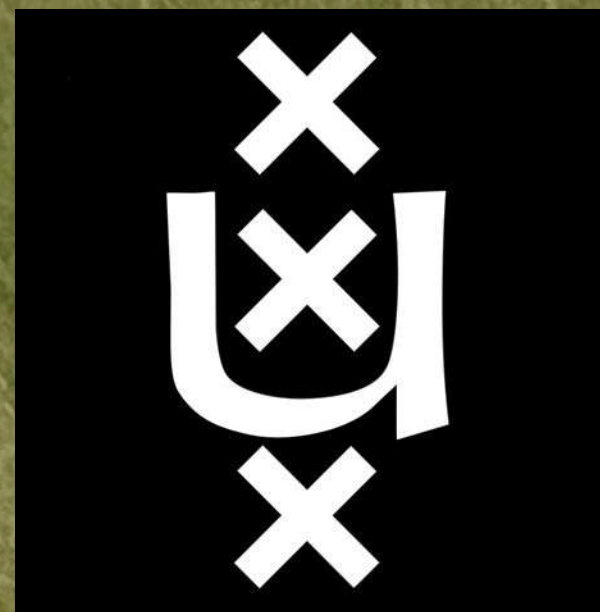


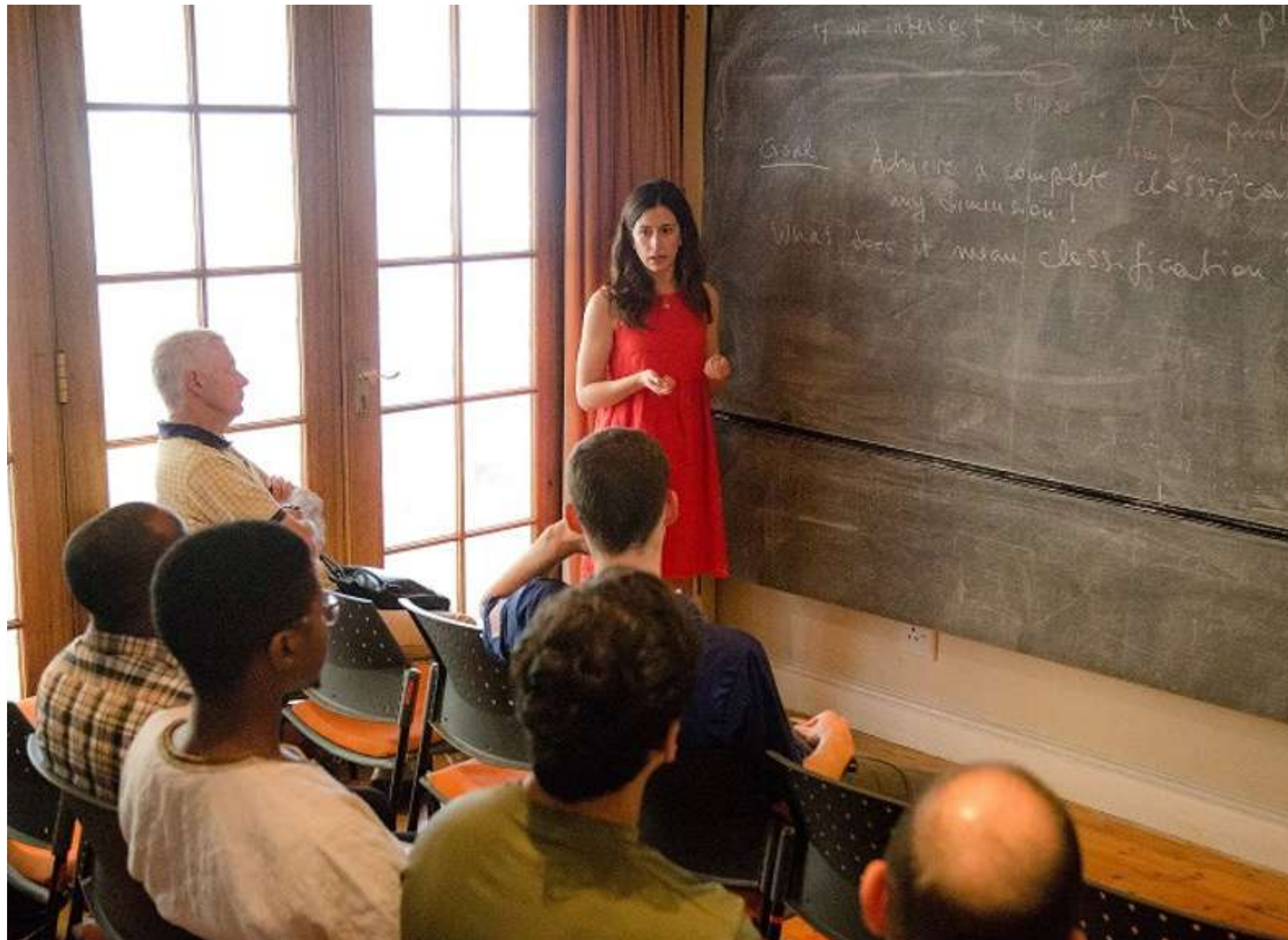
Mathematics Projects in Africa

Diletta Martinelli



University of Amsterdam

2018: First trip to Africa

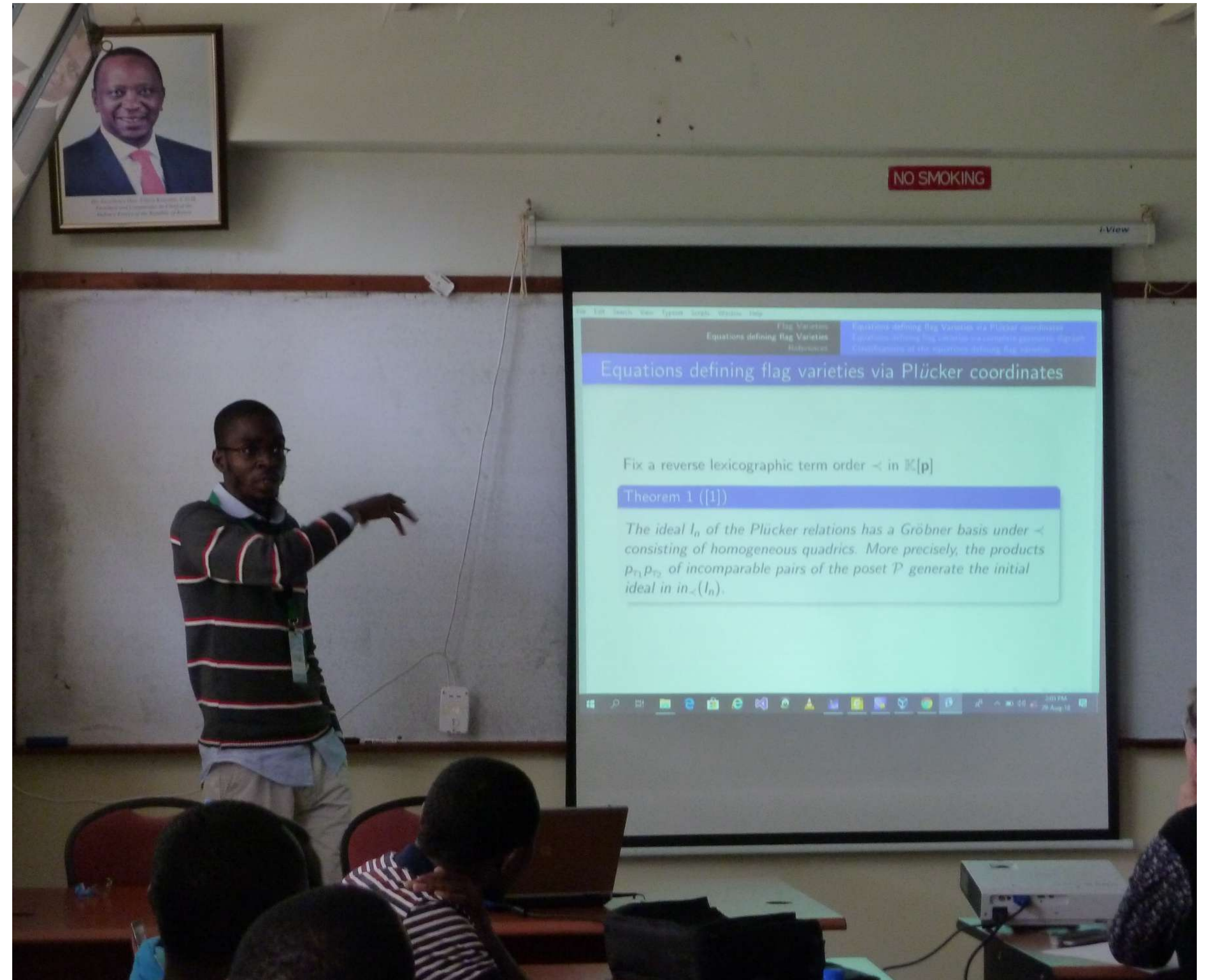


African Institute Mathematical Sciences (AIMS)
South Africa (2018).

Nairobi workshop in Algebraic geometry (2018)

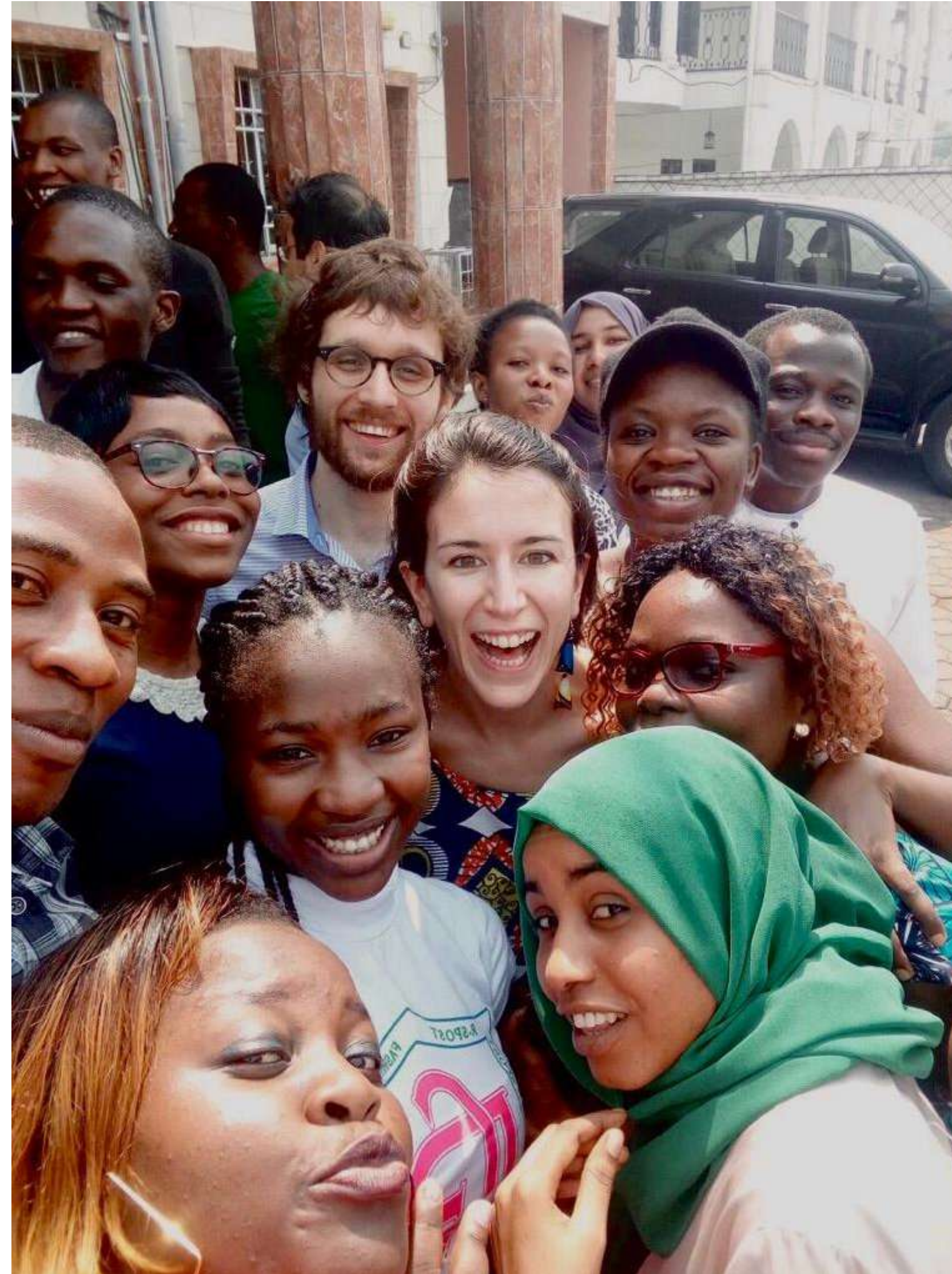


The beginning of my mini-course.



Student presentation.

2020: AIMS Cameroon in Limbé



Final day of class with all my students.

Pandemic Years: Online projects

- Summer Mentorship Program Mfano Africa, Summer 2021.
- 11 Mentees, paired with International Mentors.
- Coordinated by Geoffrey Mboya, PhD student in Oxford.



Home

Mfano Africa - Oxford Mathematics Virtual Mentorship Programme

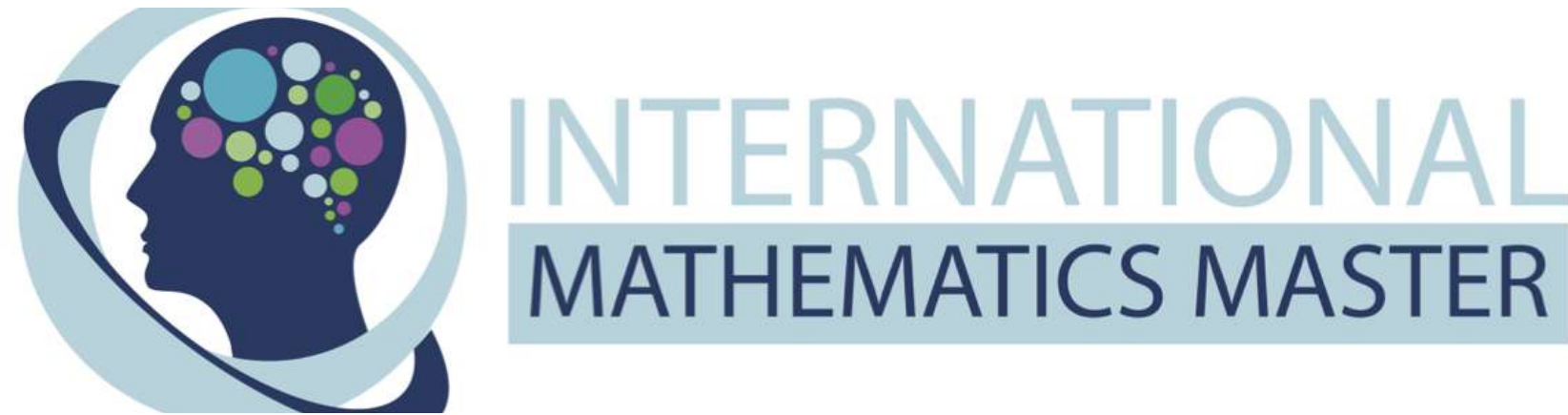
Virtual Nairobi Workshop (August 2021)

- Around 50 participants from 10 countries.



Virtual Picture with some of participants.

International Mathematics Master (IMM)



Stefano and the first cohort of IMM students.

- Stefano Luzzatto, Senior Research Scientists at ICTP. Scientific Coordinator of the IMM.
- Master program hosted at COMSAT University Islamabad (Lahore Campus) in Pakistan.
- Taught by International Faculty.
- All students are provided with scholarships.

Master of Mathematics in Rwanda

March 2022: First visit

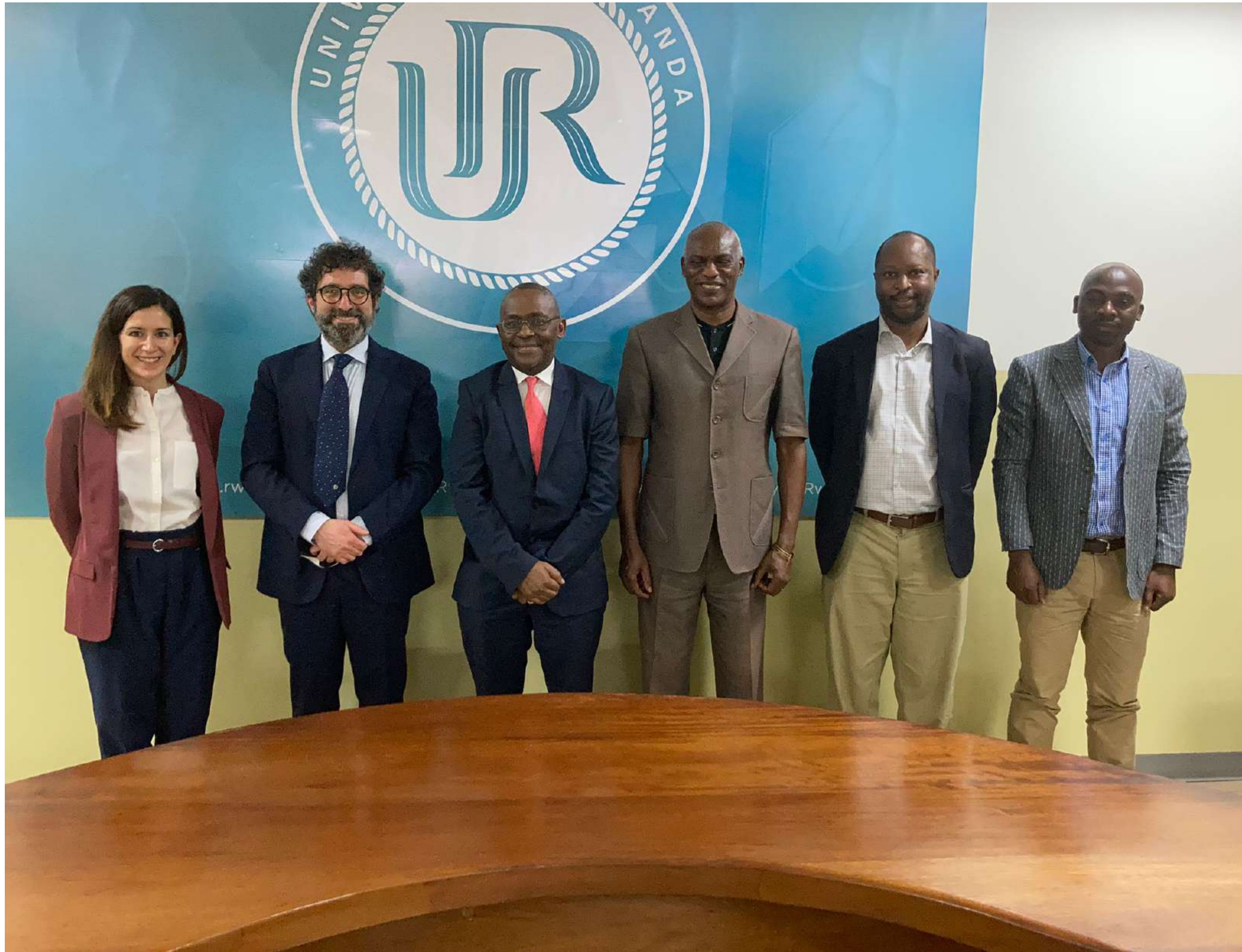


- Master programme in Applied Mathematics since 2008.
- Substantial support from SIDA and ISP.
- Around 15 students per year.

Kigali, March 2022. Meeting with the local faculty.

Master of Mathematics in Rwanda

March 2022: First visit



Meeting with the Vice Chancellor of the University of Rwanda and the Director of The World Academy of Science.

- East Africa Institute for Fundamental Research (EAFIR), an ICTP Affiliated Center. EAFIR Master in Physics.
- One of the AIMS center is located in Kigali. Focus on applied topics.
- Carnegie Mellon University, focus on Engineering.

Master of Mathematics in Rwanda

March 2022: First visit



Students attending the first stage of the competition.

- Annual National Mathematics Competition.
- Students attending from all over the country.
- Emphasis on logical thinking.
- Encourage students to study mathematics.

Master in Mathematics in Rwanda

Second visit: May 2022



The winner of the maths competition.

- Final Stage and Award ceremony for Mathematics Competition.
- I met Paul Vaderlind from the University of Stockholm, one of the organisers of the competition.
- Follow-up meeting in Stockholm at the end of August.

Master in Mathematics in Rwanda

Second visit: May 2022



Celebration for Mathematics Day in Kigali.
Theme: "Mathematics Unites".

- Building on the existing Master in Applied Mathematics at the University of Rwanda.
- Collaboration between the Mathematics section at ICTP and the Mathematics Department at the University of Stockholm.
- Collaboration between international professors and the local faculty.
- Students coming from all over Africa.

Master in Mathematics in Rwanda



- We are in the process of finalising a curriculum proposal. Focus on Fundamental Mathematics.
- Accreditation procedure.
- Hoping to launch the program in September 2024.
- We secured some funding but we are still looking for international donors.

Celestin Kurujyibwami, Head of the Mathematic Department at the University of Rwanda.

Thank you!



Zebra crossing.