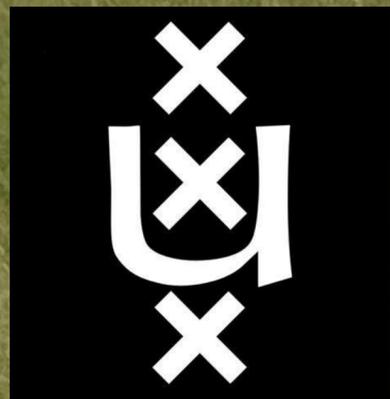


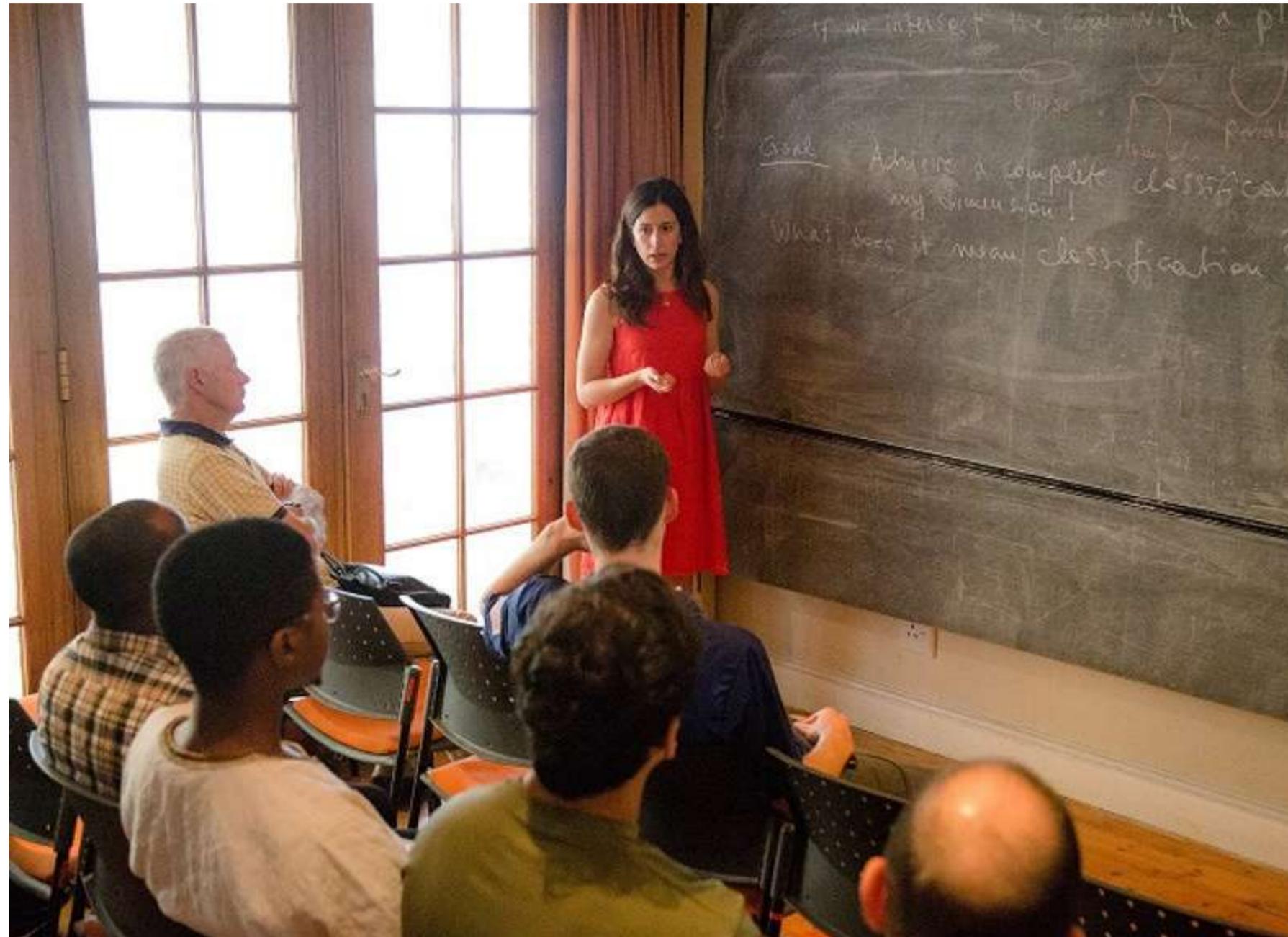
Mathematics Projects in Africa

Diletta Martinelli



University of Amsterdam

2018: First trip to Africa

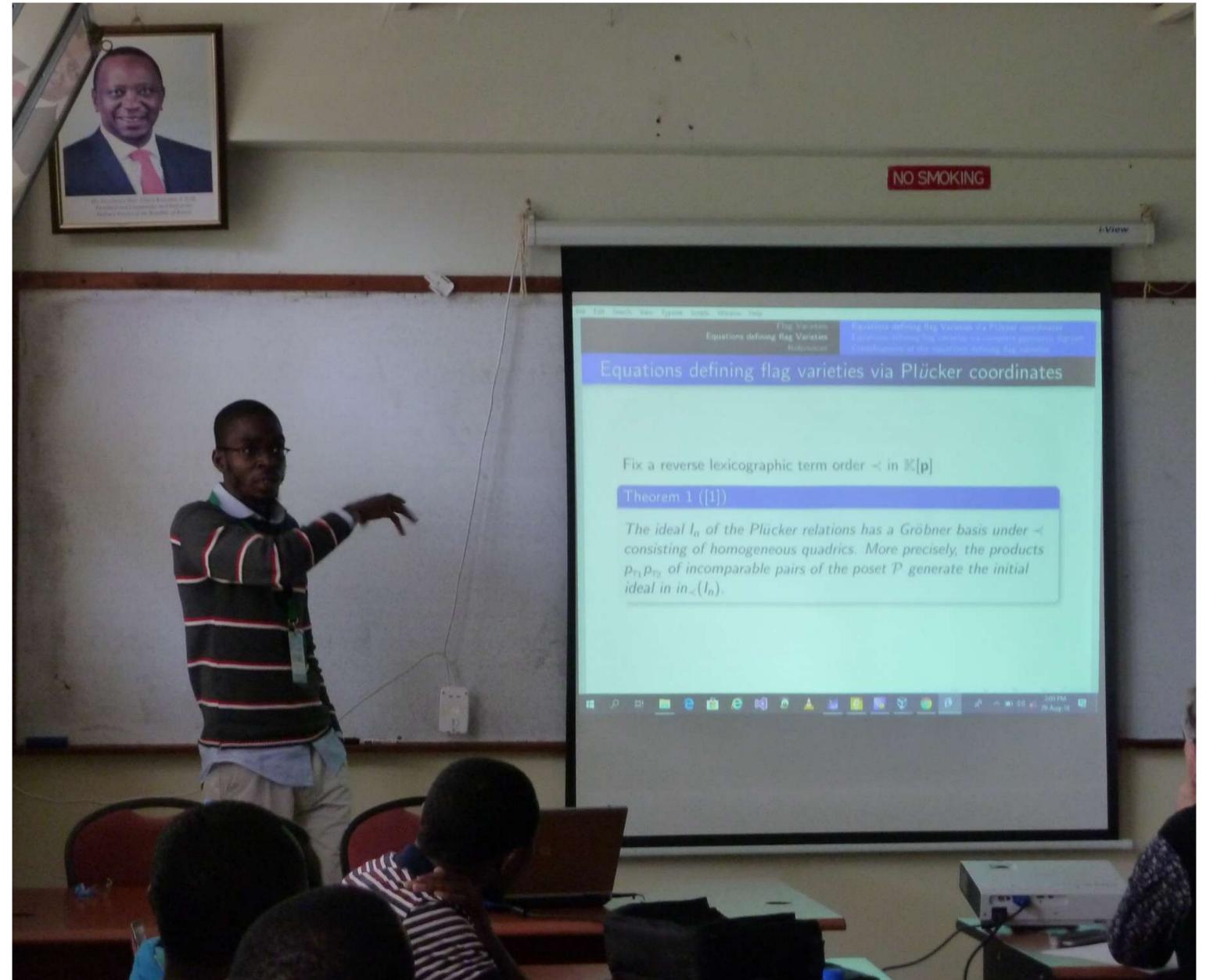


African Institute Mathematical Sciences (AIMS)
South Africa (2018).

Nairobi workshop in Algebraic geometry (2018)

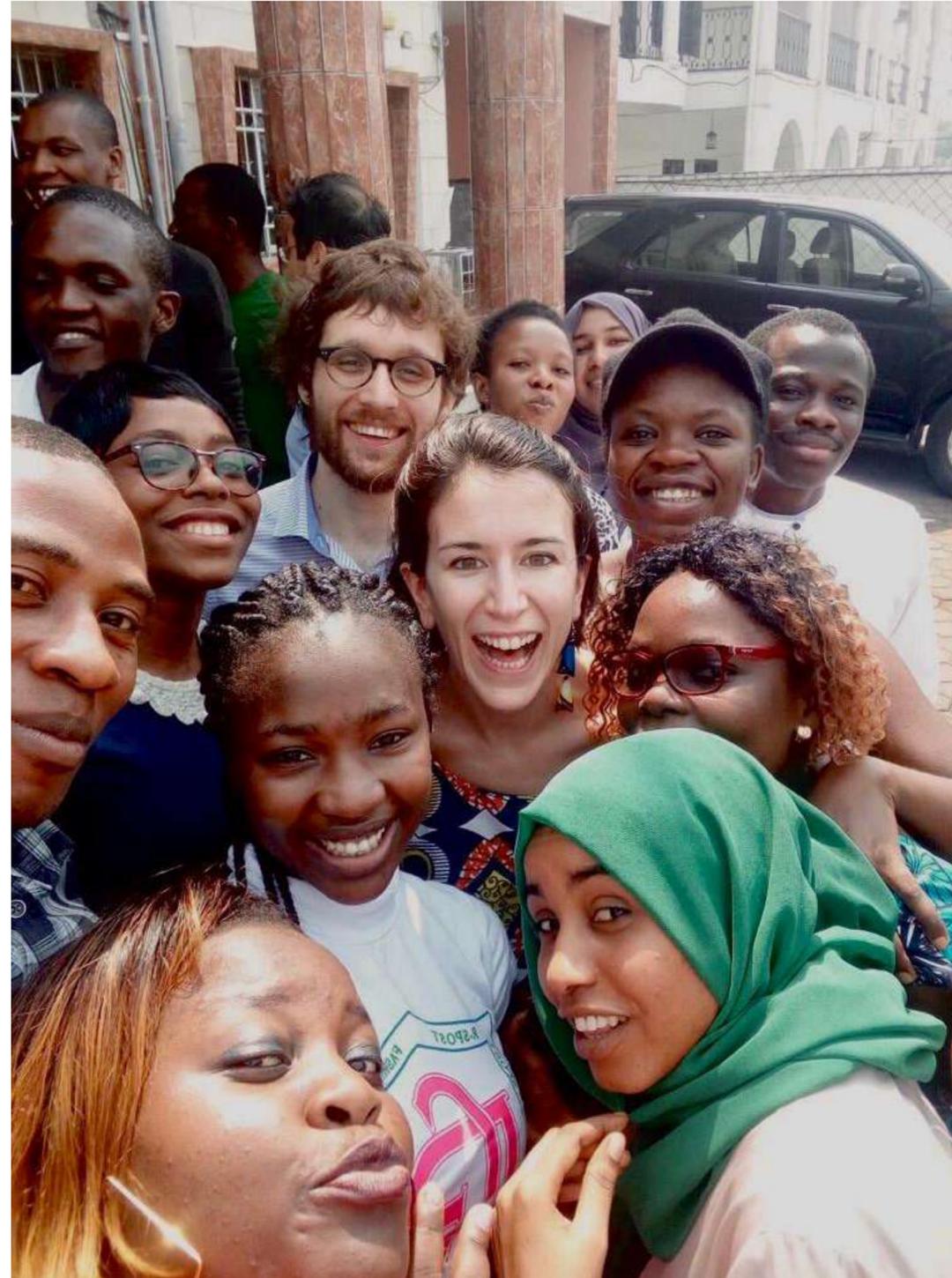


The beginning of my mini-course.



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)



INTERNATIONAL
MATHEMATICS MASTER



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



Kigali, March 2022. Meeting with the local faculty.

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

Master of Mathematics in Rwanda

March 2022: First visit



- 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.

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

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.