



AIMS

African Institute for
Mathematical Sciences
NEXT EINSTEIN INITIATIVE

The Secretariat
District Gasabo, Secteur Kacyiru
Cellule Kamatamu Rue KG590 ST
Kigali, Rwanda

Call for application: Junior Research Chair

The African Institute of Mathematical Sciences (AIMS) Rwanda has opened a Junior Research Chair position in Data Science at Quantum Leap Africa (QLA). The position will be research-oriented without any teaching responsibilities; giving seminars is expected, and giving a short course is encouraged. Other teaching opportunities can be arranged depending on preference and demand. The position comes with a competitive salary and administrative support, as well as financial support to attend and organize scientific events, to hire students and to cover expenses related to leading a research group at AIMS. The new Junior Research Chair will work jointly with the AIMS-Carnegie Research Chair in Data Science, Prof. Franca Hoffmann. The appointment will be for a period of 3 years with possibility of extension.

Possible research directions in the area of data science include, but are not limited, to:

- Mathematical theory for machine learning approaches
- Analysis and development of algorithms
- Optimization and sampling
- Discrete-to-continuum analysis (e.g. in the large data setting)
- Application and adaptation of methods from PDE theory, probability theory, mathematical physics and other research areas to data science

QLA welcomes applications from motivated and talented African researchers and researchers of African descent; candidates with the following background will be given priority:

- PhD degree in mathematics, statistics, computer science, physics, or related field
- Research potential, track record and academic achievements
- Evidence of academic maturity and independence in planning research activities
- Vision for a promising research agenda
- Capacity to lead a group and act as a mentor to students
- International experience
- Ability to bridge theory and applications
- Interest in interdisciplinary collaborations

Information about the African Institute of Mathematical Sciences, Quantum Leap Africa and about Prof. Hoffmann's research may be found at <https://nexteinstein.org/>, <https://quantumleapafrica.org/> and <https://francahoffmann.wordpress.com/> respectively. For additional information, on the position, the research environment at AIMS, or on opportunities for international collaboration, candidates may contact the AIMS-Carnegie Research Chair, Prof. Hoffmann (fhoffmann@quantumleapafrica.org), or AIMS' Research and Scientific Development Manager, Dr. Isambi Sailon Mbalawata (imbalawata@nexteinstein.org).



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The start date for this Junior Research Chair position is **October 2021**. An earlier start date is possible. To apply, please complete this [application form](#) and submit by **April 15, 2021, 23:59 CAT** with the following documents attached in pdf format:

1. Research statement (3-7 pages including references)
2. CV including a publications list
3. Recommendation letters: candidates should arrange for at least two letters from senior researchers to be sent directly to the QLA Program Coordinator Ms Molly Mutesi at mmutesi@quantumleapafrika.org

Shortlisted candidates will be invited for a virtual interview.