



# THE SAMSMA MASAMU PROGRAM

November 18-27, 2016, in Pretoria, South Africa

## THE SIXTH MASAMU ADVANCED STUDY INSTITUTE (MASI) AND WORKSHOPS IN MATHEMATICAL SCIENCES:

The primary goal of the Masamu Program ([masamu.auburn.edu](http://masamu.auburn.edu)) is to enhance research in mathematical sciences within Southern Africa Mathematical Sciences Association, or SAMSMA, ([samsa-math.org](http://samsa-math.org)) institutions through promotion of international research collaboration. A key component of the Masamu Program is the Advanced Study Institute and Workshop Series in mathematical sciences that provides a platform for such collaboration. The target audiences of the Masamu Advanced Study Institute are undergraduate and graduate students, post-docs, and early-career faculty, while the workshops are open to all students, faculty, and other researchers in mathematical sciences. The sixth Masamu Advanced Study Institute and Workshops will be held November 18-27 in Pretoria, South Africa, during the 2016 SAMSMA conference.

**Masamu Advanced Study Institute (MASI) on Algebra, Analysis, Coding Theory, Graph Theory, Mathematical Modeling of Biological Systems, Mathematics of Finance, and Statistics, November 18-24:** During the institute, participants will work in teams on problems and promising techniques and develop plans for future collaboration. Teams will be led by research faculty members from the Masamu Collaborative Research Network. Participants will be provided materials to review before coming to the institute. Each team will work on specific research topics during the institute. In subsequent months, participants will continue to collaboratively work on these research topics, prepare research grant proposals, and prepare research publications and presentations for conferences, including the 2017 SAMSMA conference. The institute has a limited number of spaces and is open only to undergraduate and graduate students, post-docs, and early-career faculty (rank lower than associate professor). All participants of the institute are required to attend the Research Workshop that will be held immediately after the institute.

**Research Workshop, November 24-27:** The workshop will consist of research presentations by experienced researchers in mathematical sciences with extended follow-up discussion periods.

**MASI and SAMSMA conference participants are encouraged to register for the following Masamu workshops to be held during the conference:**

**Career Development Workshop:** The workshop will give participants an opportunity to discuss issues relevant to graduate students, post-docs, and early-career faculty such as graduate school survival skills, publishing, balancing teaching and research, and effective teaching strategies.

**Department Heads, Chairs, and Senior Research Scientists Workshop:** This will focus on cultivating sustained cooperation between and among United States and Southern African Mathematical Sciences departments and the role that heads, chairs, and senior research scientists can play in nurturing early-career/junior research faculty.

## MASAMU PROGRAM STEERING COMMITTEE:

Ash Abebe (Auburn University, USA)  
Overtoun Jenda (Auburn University, USA), Co-Chair  
Moathodi Kgosimore (Botswana University of Agriculture and Natural Resources)  
Suzanne Lenhart (University of Tennessee, USA)  
Edward Lungu (Botswana International University of Science and Technology), Co-Chair  
Sure Mataramvura (University of Cape Town, South Africa)  
Farai Nyabadza (Stellenbosch University, South Africa)  
Abdul-Aziz Yakubu (Howard University, USA)

**COMPUTING:** Sessions will incorporate computing or file sharing and thus participants are required to bring tablets or laptop computers with a USB port.

**LODGING:** All participants will be housed at the same hotel in Pretoria, South Africa.

**APPLICATION: Deadline for receipt of applications is Monday, August 29, 2016.**

To apply for the Masamu Advanced Study Institute (MASI) and the Research Workshop, please submit:

1. A one-page letter of interest that includes a paragraph on potential or actual sources of funding,
2. A two-page curriculum vitae, and
3. Two letters of recommendation, at least one of which must address the candidate's academic strengths and potential.

**African applicants should mail their complete applications to:**

Dr. Moathodi Kgosimore  
Botswana University of Agriculture and Natural Resources  
Department of Basic Sciences  
Private Bag 0027, Gaborone, Botswana  
**Phone:** +267 3650277  
**Fax:** +267 3928753  
**E-mail:** [mkgosi@bca.bw](mailto:mkgosi@bca.bw), [kgosimor@gmail.com](mailto:kgosimor@gmail.com)

**U.S. applicants should mail their complete applications to:**

Dr. Ash Abebe  
Auburn University  
Department of Mathematics and Statistics  
221 Parker Hall, Auburn, AL 36849-5310, USA  
**Phone:** 334-844-6567  
**Fax:** 334-844-6555  
**E-mail:** [abebeas@auburn.edu](mailto:abebeas@auburn.edu)

*Please apply promptly since the number of participants in the institute is very limited. Women and minorities are encouraged to apply.*

**FOR GENERAL INQUIRIES** about the Masamu Program, use the contact information provided below.

**Africa:**

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