



# THE SAMSMA MASAMU PROGRAM

November 21-29, 2015, in Windhoek, Namibia

## THE FIFTH 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 (rank lower than associate professor) while the workshops are open to all students, faculty, and other researchers in mathematical sciences. The fifth Masamu Advanced Study Institute and Workshops will be held November 21-29, 2015, in Windhoek, Namibia, during the 2015 SAMSMA conference.

### Masamu Advanced Study Institute (MASI) on Algebra, Analysis, Graph Theory, and Mathematical Modeling of Biological Systems, November 21-26, 2015:

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 for them to review before coming to the institute. Each team will develop research topics before the end of the institute. In subsequent months, participants will prepare research grant proposals, collaboratively work on these research topics, and prepare research publications and presentations for conferences including the 2016 SAMSMA conference in Pretoria, South Africa. The institute has a limited number of spaces and is open only to undergraduate and graduate students, post-docs, and early career faculty. All participants of the institute are required to attend the Research Workshop that will be held immediately after the institute.

### Research Workshop on Algebra, Analysis, Graph Theory, and Mathematical Modeling of Biological Systems, November 27-29:

The workshop will consist of research presentations by experienced researchers in mathematical sciences with extended follow-up discussion periods.

### SAMSMA conference participants are encouraged to register for the following workshops.

**Career Development Workshop, November 27:** 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, November 27:** 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  
Moatlhodi Kgosimore (Botswana College of Agriculture)  
Suzanne Lenhart (University of Tennessee, USA)  
Edward Lungu (University of Botswana), 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 Windhoek, Namibia.

**APPLICATION:** Deadline for receipt of applications is Friday, August 31, 2015. 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. Moatlhodi Kgosimore  
University of Botswana  
Department of Basic Sciences  
Botswana College of Agriculture, Private Bag 0027, Gaborone, Botswana  
Phone: +267 3650277 Fax: +267 3928753  
Email: [mkgosi@bca.bw](mailto:mkgosi@bca.bw), [kgosimor@gmail.com](mailto:kgosimor@gmail.com)

### US 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  
Email: [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:

Dr. Edward Lungu, The Masamu Program, Department of Mathematics, University of Botswana, Gaborone, Botswana ([lunguliz@gmail.com](mailto:lunguliz@gmail.com))

### USA:

Dr. Overtoun Jenda, The Masamu Program, Auburn University, 103 M.W. Smith Hall, 381 Mell Street, Auburn, AL 36849-5168, USA ([jendaov@auburn.edu](mailto:jendaov@auburn.edu))

**Activities of the Masamu Program are organized by Auburn University and SAMSMA.**

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