

Upcoming Events:

INGenIOuS Workshop
Washington, DC
July 14-17, 2013

**Knowledge Extraction via
Comparison of Complex
Computational Models to
Massive Data Sets**
Research Triangle Park
July 29-31, 2013

CMSS: Opening Workshop
Research Triangle Park
August 18-22, 2013

Modern Math Workshop
San Antonio, Texas
October 1-2, 2013

Field of Dreams Conference
Phoenix, Arizona
November 1-3, 2013

SIDIM XXIX
Catholic University of Puerto Rico
February 28– March 1, 2014

Mentor Spotlight- Dr. Donald Cole



Dr. Donald R. Cole is a pioneer in mathematics and civil rights. In his capacities as Associate Professor of Mathematics, Assistant Provost and Assistant to the Chancellor for

Multicultural Affairs at the University of Mississippi (Ole Miss), Dr. Cole plays an active leadership role in policy making, teaching, research, and diversification at the University.

Today, Dr. Cole, who entered Ole Miss in 1970 and left after being expelled for fighting against racism on the campus, is proud of his decision to return to the campus, receive the degree he deserved and make right the historic wrongs for the future of a new generation. Some years ago, the university overturned his case and gave him the opportunity to pursue his advanced degree as well as to become a senior level administrator and role model for a new time. ([Click here](#) to read *Not In Our Town's* interview with Dr. Cole to learn more about his experiences at Ole Miss.)

"I don't know what really made me come back, but I knew it was right."

Dr. Cole oversees a variety of programs relating to minority affairs at Ole Miss, including minority student and faculty recruitment and retention. Dr. Cole also leads the Ronald McNair Program and the

NSF Alliance for Minority Participation at the University, whose goals are to increase the attainment of Ph.D. degrees by students from backgrounds that are underrepresented in sciences and technology. Additionally Dr. Cole co-directs the Alliance for Graduate Education and serves as an excellent mentor to scholars for the National Alliance for Doctoral Studies in the Mathematical Sciences.

Dr. Cole holds a Ph.D. in Mathematics from the University of Mississippi, M.A. degrees from both the State University of New York and the University of Michigan and a Bachelor Degree from Tougaloo College.

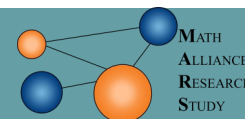
Cole has been involved with The University of Mississippi IMAGE (Increasing Minority Access to Graduate Education) program, focused

on helping prepare minority students for graduate school. One of the goals of this program is to push students towards leadership within themselves, on campus and in their fields of expertise.

Believing that education is the "great equalizer" and the central feature in the prevailing endurance of mankind, Dr. Cole is an advocate for education, particularly for minority students. He devotes his time and energy to projects that promote the schooling, teaching, training and guidance opportunities of our children, particularly towards advanced degrees. We applaud Dr. Cole for his remarkable career and thank him for all the work he has done.

Math Alliance Research Study:

Why Research the Alliance?



The Alliance's focus on fostering a sense of community through mentoring, while also attempting to address cultural issues within the mathematical sciences community, appears to be a unique approach toward broadening participation within the Science, Technology, Engineering, and Mathematics (STEM) disciplines. Because of these unique elements and structures, the University of Illinois, under the guidance of Dr. Casey George Jackson, has received funding from the National Science Foundation to conduct research on the Alliance. The Math Alliance Research Study (MARS) aims to address the following research questions:

- *How does the unique underlying logic model help inform the key components of the Alliance? Why and how is the Alliance successful? How does the Alliance impact students' experiences in math departments?*
- *Can the Alliance model be expanded to serve more students, and be adopted by other STEM disciplines to support students in different science-and math-based disciplines?*

The study employs a mixed-methods approach that will examine both the short-term and long-term outcomes of the program in relation to these questions. The majority of data to be used in the study will be collected in 2013 from faculty members and students via online surveys, interviews, and focus groups. Publically available data on the departments and universities that form the National Alliance will also be analyzed. The findings of the study will be disseminated to members of the Alliance, to the National Science Foundation, and to others interested in expanding underrepresented students' participation and success in the mathematical sciences.

In addition, the MARS team aims to provide useful information to those involved and interested in the Alliance through the periodic release of briefs through their website. The first brief, *Evaluation vs. Educational Research*, authored by Martha Makowski who serves as a graduate research assistant for the project, will be available in June 2013 through the following webpage: <http://education.illinois.edu/stem/alliance/briefs>

To contact the Math Alliance Research Study, please visit their [website](#) or email stem@education.illinois.edu.

Iowa Summer Institute in Biostatistics

The 2013 Iowa Summer Institute in Biostatistics ([ISIB](#)) began its summer program on June 3rd, directed by Dr. Gideon Zamba. ISIB is in its fourth year of sponsorship by the National Heart, Lung, and Blood Institute (NHLBI); it is one of nine [SIBs](#) programs offered this year. We have 20 undergraduate trainees from 18 colleges and universities across the country. The curriculum provides a fundamental building block for students to learn the field of biostatistics through case-based instruction of real biomedical research, computer laboratory training, and [group research projects](#) that will be presented at a closing symposium in mid-July.

ISIB gives priority admission to Alliance Scholars, underrepresented and disadvantaged students, and to students from small liberal arts colleges which do not offer substantial course work in statistics or biostatistics. This year 55% of the class is minority and underrepresented students.

Please visit our [website](#) for additional information about ISIB. On-line application for summer 2014 will be open in mid-October 2013.

Want to Meet for Lunch at the Joint Statistical Meetings in Montreal?

The Joint Statistical Meeting will be held in Montreal, Canada, August 4th to 8th 2013. Leslie McClure and Kathryn Chaloner are holding a roundtable lunch meeting on Wednesday August 7th. The session is titled “Recruiting Under-Represented Minorities to Statistics Programs: The National Alliance for Doctoral Studies in the Mathematical Sciences” and is activity 562, abstract 307696, from 12:30pm to 1:50pm.

Our hope is to increase the number of Statistics and Biostatistics graduate programs who become Alliance Graduate Program Groups. Please join us! There is a \$45 registration fee to pay for the lunch, and we have some (limited) funds for Alliance undergraduate mentors from minority serving institutions. Please join us and ask us lmcclore@uab.edu or Kathryn-chaloner@uiowa.edu if you have questions. Here is the abstract:

The National Alliance for Doctoral Studies in the Mathematical Sciences is a group of math and statistics faculty at both undergraduate institutions and graduate programs whose goal is to ensure that any student from a background that is underrepresented in the mathematical sciences and who wishes to pursue a doctoral degree in these fields is given the tools, nurturing, and encouragement needed to succeed. This is an NSF-funded program, which includes a committee on statistics, with the goal of ensuring that students from underrepresented backgrounds are provided with the resources to successfully complete a doctoral program in the statistical sciences. In this roundtable luncheon, we will discuss the alliance, the structure and objectives of the statistics committee, and some strategies for increasing the awareness of graduate studies in statistical sciences among undergraduate faculty and students. Participants will have the opportunity to learn how to become alliance mentors, how their students can become alliance scholars, and how their program can become an Alliance Graduate Program Group.

National Alliance for Doctoral Studies in the Mathematical Sciences

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<http://www.flickr.com/mathalliance>

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INGenIOuS:

Strategies for advancing the mathematics
and statistics workforce

Click [here](#) to learn more about the
community of stakeholders from
academic institutions, professional
societies, government agencies, and
industry discussing strategies for
advancing the mathematics and statistics
workforce.

New Photos on Flickr

We've added more
photos to our
[Flickr](#) account! We dug into our
archives and found photos from
the 2009 and 2010 Field of
Dreams Conference. Make sure to
check our Flickr page often for more photos
from Alliance events!

