

Math Alliance News

February 2013

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Upcoming Events:

Aftermath

Conference—
 Harvey Mudd University
 February 9, 2013

"Advances in Nonlinear Science" Workshop—

The University of
 Pittsburgh
 March 14-16, 2013

SIDIM—

University of Puerto Rico-
 San Juan
 March 2-3, 2013

USTARS Meeting—

Purdue University
 April 19-21, 2013

Field of Dreams Conference—

Phoenix, Arizona
 November 1-3, 2013

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Field of Dreams Report –November 2-4, 2012



Field of Dreams 2012

The 2012 Field of Dreams Conference was held at the Hilton Mesa Hotel in Phoenix, Arizona on November 2-4, 2012. Over 250 pre-doctoral students, post-graduate students, alliance and GPG mentors were in attendance. Seventy four different colleges and universities were represented as well as representatives from six math institutes.

Several panels were convened during the conference that provided pertinent information to all who were in attendance. **The Institutes** gave information on opportunities for undergraduates, graduate students, post docs and researchers told of special outreach events that are sponsored by each institute. The Ph.D. student panel provided an opportunity for doctoral students to tell their stories to the pre-doctoral students with time allowed for questions and reflection. For the Ph.D. students, there was a panel on "Careers in Mathematical Science" which discussed the many different opportunities available to Ph.D. in the mathematical sciences.

The keynote speaker for the Saturday night dinner was Dr. Erika Camacho, Assistant Professor of mathematics at Arizona State University who gave an inspirational talk



describing her experience growing up in inner city Los Angeles and working to help support her family while attending Garfield High School where she was taught by Jaime Escalante (as featured in the 1988 film *Stand and Deliver*).

Professor Phil Kutzko and Professor Renato Feres gave a presentation on Mathematics: Then and Now and how it has evolved. Faculty mentors in math and statistics networked and strategized. Regional alliances met face to face and set goals and objectives for the coming year and a new Statistics Committee was formalized. With all of this going on there was still time to meet and greet others from the many different colleges and universities. It was a wonderful conference that was enjoyed by all that attended.

Thanks again to the hard work and dedication of the Staff at Arizona State University, Sherry Woodley, Preston Swan and Margaret Murphy-Tillis and the many other staff and students under the direction of Professor Carlos Castillo-Chavez for making this conference a big success.

We are excited to announce that the 2013 Field of Dreams Conference will once again be hosted in Phoenix, Arizona, November 1-3.

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 Follow us on Twitter @Math_Alliance

 View our photos at <http://www.flickr.com/mathalliance>

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National Alliance for Doctoral Studies in the Mathematical Sciences

Welcome!

The National Alliance for Doctoral Studies in the Mathematical Sciences is pleased to welcome two new staff members to their team. **Billie Townsend**, Program Director for The National Alliance for Doctoral Studies in the Mathematical Sciences and **Miles Dietz**, Program Assistant for The National Alliance for Doctoral Studies in the Mathematical Sciences look forward to working with the Alliance and answering any questions you may have.

Greetings from the Alliance:

I am proud and pleased to introduce the first issue of the Alliance Monthly newsletter. Our staff has worked very hard to provide you with information that will be of interest to all of you that are involved with the Alliance.

This month we have highlighted the 2012 Field of Dreams Conference and have included lots of photos from this event for you to view from our new Flickr account. As we plan for the 2013 Field of Dreams we hope that you will send your thoughts on what you enjoyed most, what has been most beneficial to you, what you did not like, and your suggestions on what we can do to improve this event and make it even better. Information on the alliance scholar nomination/ selection process for the 2013 FOD will be available soon.

You will find in this issue information on upcoming events, summer research opportunities, information on doctoral programs and even some job opportunities. If you have information that you would like to share with the Alliance Community, please continue to send your information to Billie Townsend or Miles Dietz so that it can be forwarded to the proper groups and included in the newsletter. We plan to be more active on the Alliance Facebook page for all those Facebook followers and we have also opened our own Alliance Twitter account for those of you that are so inclined.

The Alliance Activity Scholarships will be available soon, so look for that information in your mailboxes and we plan to spotlight the application process in the next issue of the Newsletter.

I am so proud of the work that is being done and the progress that is being made within the Alliance Community and look forward to hearing from you as you submit information and updates on what you are doing in your regions.

Sincerely

Phil

Phil Kutzko, Director
National Alliance for Doctoral Studies

Message from Professor Kathryn Chaloner:

The inaugural meeting of the Alliance Statistics Initiative was held on Saturday afternoon during the 2012 Field of Dreams Conference. It was very well attended with representatives of graduate programs, Alliance Graduate Program Groups and also Alliance mentors. Data were presented and discussed that indicated that Statistics/Biostatistics PhDs have a greater proportion of international students than PhDs in mathematics, and, in Statistics/Biostatistics a smaller proportion of US degrees are awarded to underrepresented minorities than in mathematics. In mathematics, data indicate that PhDs awarded to underrepresented minorities are concentrated in a few programs. It was also noted that the demand for individuals with MS or PhDs in statistics/biostatistics continues to be high and a graduate degree in a statistical science provides excellent career opportunities. Several goals were discussed for this initiative and adopted. The three goals are:

- To reach out to Alliance undergraduate mentors to inform them about opportunities in statistics and biostatistics for their students.
- To propagate best practices in being supportive of minority students to Statistical Science graduate programs.
- To add additional graduate programs in the Statistical Sciences as Alliance Graduate Program Groups.

Activities designed to achieve these goals are being discussed and developed. More information from the Alliance Statistics initiative will be available in the next issue of the Newsletter.

Sincerely,

Kathryn

Kathryn Chaloner, Director of the Statistics Initiative
National Alliance for Doctoral Studies

Interuniversity Seminar on Research in the Mathematical Sciences

The University of Puerto Rico at Mayagüez will host the XXVII Interuniversity Seminar on Research in the Mathematical Sciences (SIDIM) on March 2 and 3, 2012. The SIDIM is an annual gathering where researchers, professors, teachers, graduate and

undergraduate students share and discuss their recent work in mathematics and computer science. Its diverse and intense scientific program provides an interesting cross section of the current status of mathematical research in Puerto Rico. Math faculty and students from all

the higher learning institutions in Puerto Rico, as well as distinguished visiting mathematicians will participate in the meeting. For more information go to <http://www.sidim.pr/index-en.html>.

Summer REU's

Arizona State University Department of Mathematics
[Mathematical and Theoretical Biology Summer Program](#)

Fresno State Department of Mathematics
[REU in Mathematics](#)

Grand Valley State University Department of Mathematics
[The REU Program in Mathematics](#)

Iowa State University Department of Mathematics
[Mathematics and Statistics REU at Iowa State University](#)

Kansas State University
[Summer Undergraduate Mathematics Research \(SUMaR\)](#)

Miami University Department of Mathematics
[Summer Undergraduate Mathematical Science Research Institute \(SUMSRI\)](#)

MSRI (Mathematical Sciences Research Institute)
[MSRI-UP Summer Program](#)

North Carolina State University Department of Mathematics
[REU in Modeling and Industrial Applied Mathematics & REU+ program for under-represented undergraduate students](#)

Rice University
[Summer Institute of Statistics REU](#)

St. Mary's University of Maryland
[ESP-REU](#)

Summer/EDGE Program
[EDGE: A Mathematics Program for Women](#)

University of Iowa Departments of Biostatistics and Statistics
[Iowa Summer Institute in Biostatistics \(ISIB\)](#)

University of Nebraska at Lincoln Department of Mathematics
[Summer 2013 Research Programs & Nebraska IMMERSE \(Intensive Mathematics: a Mentoring, Education and Research Summer Experience\)](#)

Williams College Department of Mathematics
[SMALL Undergraduate Research Project](#)

Summer Graduate Programs

North Carolina State University Department of Mathematics
[Research for Early Graduate Students \(REG\) Program](#)

Post-baccalaureate Programs

Smith College Department of Mathematics
[Center for Women in Mathematics Post-Baccalaureate Program](#)

Scholarships & Job Opportunities

The Institute for Computational and Experimental Research in Mathematics at Brown University
[Part-time Associate Director \(AD\) for Diversity Enhancement](#)

**Save the Date for the 2013
Field of Dreams Conference**
Phoenix, Arizona
November 1-3, 2013

We want to hear from you! What was your favorite experience from the 2012 Field of Dreams Conference? What would you like to see at this year's Field of Dreams Conference? Tweet your thoughts to us @Math_Alliance or e-mail them to mathalliance@uiowa.edu.