

Upcoming Events:

The Mathematical Sciences in Obesity Research

University of Alabama at Birmingham
May 12-16, 2014

Women in Statistics Conference

Cary, North Carolina
May 15-27, 2014

SAMSI Undergraduate Modeling Workshop

North Carolina State University
May 18-23, 2014

2014 NSF-CBMS Conference

University of Texas at Arlington
May 27-31, 2014

Conference on Partial Differential Equations

Novacella, Italy
May 28-June 1, 2014

Recruiting and Retaining Graduate Students in the Statistical Sciences and Applied Mathematics

Research Triangle Park, NC
June 5-6, 2014

Poisson 2014

The University of Illinois at Urbana-Champaign
August 4-8, 2014

MAA MathFest

Portland, Oregon
August 6-9, 2014

ICERM IdeaLab 2014

Brown University
August 11-15, 2014

SAMSI Bioinformatics Workshop

Research Triangle Park, NC
September 8-12, 2014

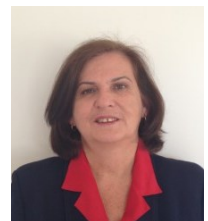
Field of Dreams Conference

Phoenix, AZ
November 7-9, 2014



Last month Directors from each of the 7 Alliance Regions met with the Alliance Leadership Board for their annual meeting in Phoenix, Arizona. We are excited to report that many Alliance Regions are beginning to form Regional Sub-Alliances. Notably the Pacific Region has taken great initiative to get the **Pacific Math Alliance** up and running.

Led by Dr. Helena Noronha of California State University, Northridge, The Pacific Math Alliance began through the collaboration of a small number of dedicated faculty members with experience in mentoring students from under-represented groups in Southern California.



Dr. Helena Noronha,
California State University, Northridge

The goal of the Pacific Math Alliance is to build a regional community of mentors that will help under-represented minority students pursue advanced study & careers in the mathematical sciences.

As part of the **National Alliance for Doctoral Studies in the Mathematical Sciences** and, consistent with its goals, the Pacific Math Alliance aims to increase the number of under-represented minority students from their region (currently California, Hawaii, Oregon and Washington) who enter Ph.D. programs in the Mathematical Sciences, as well as to improve the quality of mathematical education provided to them prior to the Ph.D. program. They also focus on the critical transition from high school to college and from community college to a four-year college, in addition to emphasizing the variety of career options that are available to Math majors.



2013 PUMP Participants

One program the Pacific Math Alliance helps organize is the *Preparing Undergraduates through Mentoring towards PhDs Program (PUMP)*. The **PUMP Summer Program** is a 4-week long Summer Program from July 7 to August 1 open to California State University Alliance Schools (Channel Island, Northridge, LA, Pomona, San Bernardino, Fullerton, Dominguez Hills and Long Beach). The 2014 PUMP Summer Program will take place at **California State Polytechnic University, Pomona**.

PUMP also holds an **Undergraduate Research Groups in Mathematics Program (URG)** which is currently inviting faculty from CSUCI, CSUN, CSULA, CSULB, CSUB, CSUSM, CSUDH, CSU Fullerton, CSU Fresno, CSUSB, CPP, and CPSLO to submit proposals.

We invite you to visit the **Pacific Math Alliance website** to learn about the programs that are already in place.

MATH ALLIANCE National Alliance for Doctoral Studies in the Mathematical Sciences

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For additional information contact Billie Townsend at billie-townsend@uiowa.edu

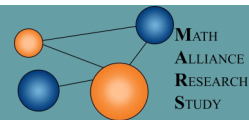
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National Alliance for Doctoral Studies in the Mathematical Sciences

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

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Math Alliance Research Study: Mentor Survey



The Math Alliance Research Study surveyed a sample of Alliance Mentors about their role in making the mathematical disciplines more accessible and inclusive to traditionally underrepresented students. Mentors spoke to their perceptions of the most beneficial aspects of the Alliance for different groups, their level of involvement in the Alliance, how they identified students to join the Math Alliance, and their motivations to attend the Field of Dreams Conference. Their results can be viewed on the infographic on page 3 of the newsletter or on their [website](#).

MAA MATHFEST
August 6-9, 2014

Registration is open for MAA MathFest 2014!

MAA MathFest is the largest annual summertime gathering of mathematicians. In 2014, MAA MathFest will offer all of the great sessions that you have come to expect from the conference: Invited Addresses, Invited Paper Sessions, Contributed Paper Sessions, Minicourses and more.

Abstract submissions are open through April 30, 2014.
[Click here to learn more & register.](#)

2014 SACNAS National Conference
Creativity, Vision, & Drive:
Toward Full Representation in STEM
October 16 – 18, 2014
Los Angeles Convention Center

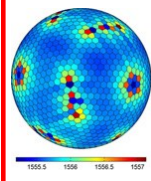
The SACNAS National Conference motivates, inspires and engages participants to achieve their highest goals in pursuing education and careers in STEM fields. Conference programming is specifically tailored to support undergraduate and graduate students, postdoctoral researchers, and career professionals at each transition stage of their career as they move towards positions of science leadership.

The deadline to submit a session proposal has been extended through April 22, 2014. [Click here to learn more.](#)

RESEARCH OPPORTUNITY FOR GRADUATE STUDENTS
Phase Transitions and Emergent Properties (Spring 2015 Semester Program)



The Institute for Computational and Experimental Research in Mathematics (**ICERM**) welcomes applications from graduate students who wish to spend the semester at the institute to participate in one of our semester-long research programs.



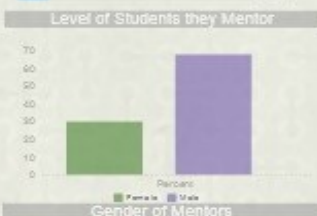
The semester will include three workshops that will concentrate on different aspects of current interest, including unusual settings such as complex networks and quasicrystals, the onset of emergence as small systems grow, and the emergence of structure and shape as limits in probabilistic models. The workshops will (necessarily) bring in researchers in combinatorics and probability as well as statistical physics and related areas. We aim to have experimental contributors for workshops 1 and 2 where we will highlight the comparison between computational and theoretical modeling and the real world. This will be combined with computational modules for the student participants.

Applications received by June 1, 2014 will receive early consideration. Deadline is September 15, 2014. *All applications received after September 15, 2014 will be reviewed on a rolling basis as funding and space allows.* Visit the **ICERM website** to learn more and apply.

MENTOR SURVEY

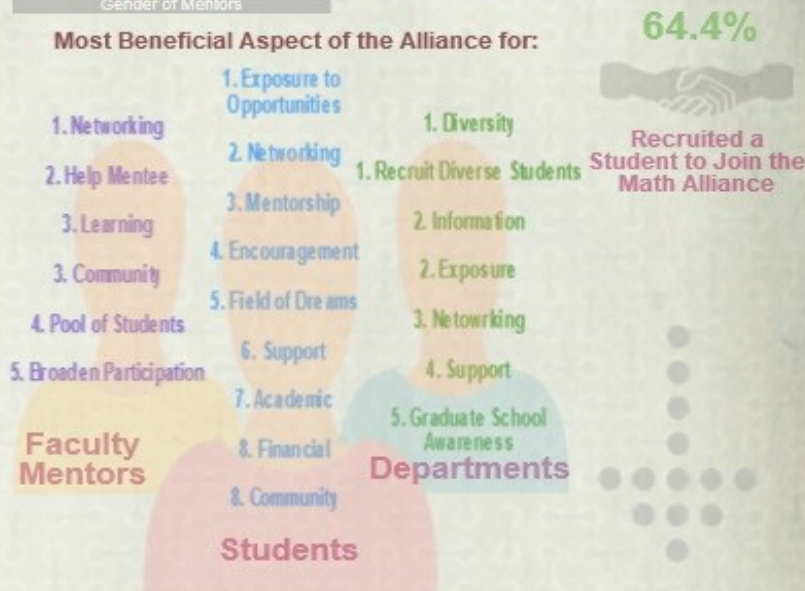
n=90

We surveyed a sample of mentors of the National Alliance for Doctoral Studies in Mathematics about their role in making the mathematical disciplines more accessible and inclusive to traditionally underrepresented students. Mentors spoke to their perceptions of the most beneficial aspects of the Alliance for different groups, their level of involvement in the Alliance, how they identified students to join the Math Alliance, and their motivations to attend the Field of Dreams.



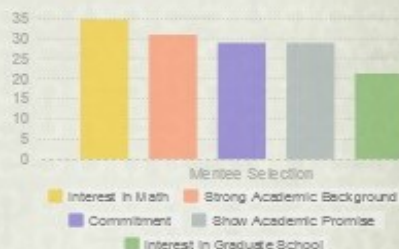
Mentor Departments

Most Beneficial Aspect of the Alliance for:



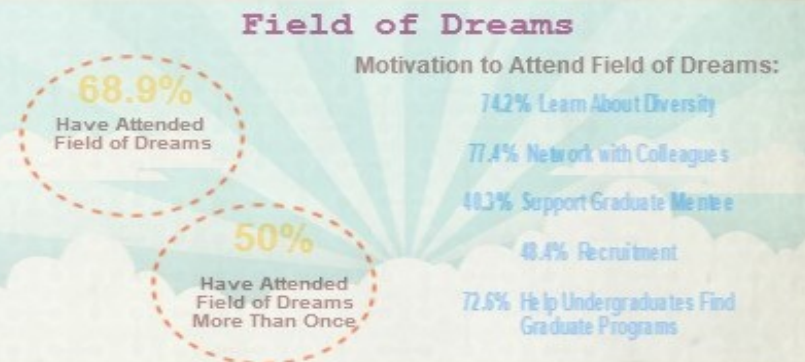
Level of Involvement in the Alliance:

- 83.3% Serve as Mentors
- 47.8% Network with Faculty
- 15.6% Host an REU
- 20% Community Outreach



Top 5 Ways Mentors Identify Students to Recruit

Field of Dreams



Rincon, B. (April 2014). University of Illinois at Urbana-Champaign
For more information about the National Alliance for Doctoral Studies please visit mathalliance.org



Please direct all questions and comments to the Math Alliance Research Team at stem@education.illinois.edu.

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