

## Upcoming Events

### SACNAS Leadership Inst.

Washington, DC  
July 17-21, 2017

### MAA MATHFEST

Hilton Chicago, IL  
July 26-29, 2017

### Diversity Mentoring Program at JSM 2017

Baltimore, MD  
July 30, 2017- August 2, 2017

### 2017 FOD Conference

Renaissance St. Louis Airport  
November 3-5, 2017

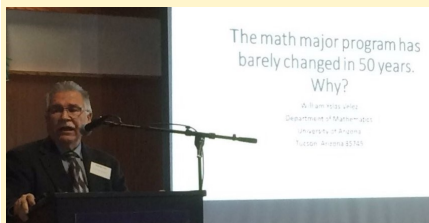
## Center for the National Math Alliance created in Purdue College of Science

The Math Alliance has a new administrative home at Purdue University – the newly created College of Science Center for the National Math Alliance. The creation of the Center was approved by Interim Dean, Craig Svennson, and will provide the Alliance with administrative support and financial stability. As a unit within the Center, the Alliance will continue to operate as an independent organization in terms of its programs and activities.

The [governing document](#) for the Center is now posted at the Alliance website.

We will be providing more information soon about the operational structure of the Center, and how individuals and Departments can participate.

## NYC Math Sciences Alliance Holds Organizational Meeting



The initial meeting of the NYC Math Sciences Alliance was held May 13, 2017 at City College of New York.

The one day meeting facilitated faculty involvement in the new regional alliance and was attended by approximately 50 participants, including local faculty, representatives of the National Alliance, representatives of industry, and a member of the Mayor's Office.

William Vélez delivered the keynote address, and there were several other presentations on aspects of the National Alliance, and other regional alliances. Maria Isabel Sánchez, an F-GAP student from City University of New York, gave lunchtime remarks on the impact of the Alliance on her academic career. The afternoon was spent in breakout sessions designed to organize various aspects of the new regional alliance.



The NYC Math Sciences Alliance is planning to hold its first full-fledged meeting, including students, within the next year and a half. Brooke Feigon, of City College, was the chief organizer of the event, with help from Terrence Blackman of Medgar Evers, and Louis Beaugris of Kean University. This organizational meeting was supported by the Sloan Foundation, City College, and City University, and we are grateful for their support. We know we will be hearing much more about this newest regional alliance soon!!



## Now Accepting Nominations for the 2017-18 F-GAP Program



The Facilitated Graduate Applications Process (F-GAP) is an Alliance program that provides undergraduate seniors and Master's students with the advice and assistance needed to begin the application process as they apply to graduate programs. FGAP will help students choose departments that are most appropriate to their goals and aspirations. The Alliance Community will work with the student as they prepare their applications to graduate programs and will assist in tracking the progress of their applications through the admissions process. The Alliance Community will assist in maximizing the chances that Alliance Scholars will be admitted, with support, to a department or program where they will thrive.

**We are now accepting nominations for the 2017-18 F-GAP program.** If you know of a senior or Master's student who will be graduating in the Spring of 2018 and will be applying to graduate programs for Fall 2018 please submit a form here: <https://mathalliance.org/2017-fgap-nomination-form/> to nominate students.

We will pair each eligible student with one of our Doctoral Alliance Mentors who will work with the students local mentor to create a mentoring team that will aid in the application process.

"F-GAP has substantially helped me in finding the right programs to which I should apply."



"The F-GAP program is excellent! My facilitator assisted and encouraged me at every stage of the application process."



"The attention and help that I receive of my F-GAP facilitator was outstanding. The tips given by him to improve my Personal Statement, CV and others application materials were phenomenal."



## The Chronicle of Higher Education features an article on the Math Department at the University of Iowa



An article titled: *Getting Minority Ph.D. Students to the Finish Line*, written by Vimal Patel, is published on the Chronicle of Higher Education website.

The article focuses on the mentoring of underrepresented minority students in the mathematics doctoral program at the University of Iowa. The article also touches on the gap of minority students and graduates in STEM programs around the country.

To read the full article, go here: <http://www.chronicle.com/article/Getting-Minority-PhD/239857>

## Diversity Mentoring Program at JSM 2017

Diversity Mentoring Program at JSM 2017 in Baltimore, Maryland, July 30, 2017- August 2, 2017



Raising up the next generation of statistical thought leaders takes commitment and participation! *We are here to help!*

The 2017 JSM Diversity Mentorship Program (DMP) brings historically-underrepresented minority (African-American, Hispanic/Latino, Native American) graduate, undergraduate, post-doctoral scholars, and junior professionals together with senior-level statisticians and faculty in academia, government, and the private sector in a structured program at the Joint Statistical Meetings.

The program will include small group discussions and one-on-one meetings of mentor-protégé pairs during the conference. The 2017 agenda is currently being developed; however, the agendas for the 2016 and 2015 DMP meetings show the types of programming that our participants have typically found to be very helpful. We anticipate that the 2017 agenda will include a Sunday dinner and morning activities for Monday, July 31, 2017 through Wednesday, August 2, 2017.

### Applicants

The application period has opened and a link to the application is available on the website. Preference will be given for applications received by May 31, 2017 and applicants will be informed of their status by mid-June 2017. Successful applicants are expected to participate in career enhancement activities, group and individual mentoring, and to develop a peer network among participants.

For more information visit the AMSTAT website: <http://community.amstat.org/cmis/events/dmp2017>

## Alliance wins 2017 AMS Programs the Make a Difference Award!



We are very pleased to report the American Mathematical Society has chosen the Alliance as the winner of the 2017 Programs that Make a Difference Award.

The AMS news release reads in part: *The annual award was created by the AMS Committee on the Profession to recognize outstanding programs that successfully address the issue of underrepresented groups in mathematics. The Math Alliance is honored "for its programs over the last 10 years promoting participation by groups underrepresented in doctoral programs in the mathematical sciences."*

The announcement was released on April 19 and appears in the May, 2017 edition of the Notices of the AMS. The full citation, can be viewed at their website, [www.ams.org/publications/journals/notices/201705/rnoti-p476.pdf](http://www.ams.org/publications/journals/notices/201705/rnoti-p476.pdf). Professor Steven Miller, of Williams College, an Alliance mentor, nominated us for this award. Professor Miller noted in his nomination letter,

*Each year more and more schools, and more and more scholars, join the Math Alliance. This has resulted in a truly expansive and unprecedented network of mentors and opportunities for the mentees. By having so many people with such a wealth of experience involved, it is easy to connect students from one part of the country with advisors with similar interest.*



We want to thank Professor Miller and all those who wrote in support of this nomination. We also want to thank all of our Alliance Mentors, Scholars, and Sponsors for helping to bring us this far. The Alliance works because of your dedication and all your efforts to make it work! This award recognizes the progress we have made, as well as our potential to continue to make a difference in our profession and our nation. Thank you all!!!



# SAMSI QMC Workshop

**SAMSI QMC Opening Workshop, 8/28– 9/01/ 2017 Penn Pavilion at Duke University, Durham, NC**

Applications are now being accepted at <http://samsi.us11.list-manage.com/track/click?u=f8d81ec133891cc606c5dc3af&id=9cd037dc0f&e=873e5bd3a2>

The Opening Workshop marks the official start of the 2017-18 SAMSI Program on Quasi-Monte Carlo and High-Dimensional Sampling Methods for Applied Mathematics. The first workshop day consists of tutorials that introduce QMC methods, followed by a poster reception. The remaining days feature research presentations, discussion panels, and the formation of (virtual) research working groups.

## **Workshop topics:**

High-dimensional numerical integration and approximation; low discrepancy and other high-dimensional sampling schemes; information-based complexity; partial differential equations (high-dimensional, random coefficients); digital nets, lattice rules, and their randomization; as well as applications of QMC to: uncertainty quantification, stochastic wave propagation, Bayesian computations, and industrial problems.

## **Organizers:**

Art Owen (Stanford), Frances Kuo (New South Wales),  
Fred Hickernell (Illinois), Pierre L'Ecuyer (Montréal)

Directorate Liaison:

Ilse Ipsen, Associate Director of SAMSI

More information is available at: <http://samsi.us11.list-manage.com/track/click?u=f8d81ec133891cc606c5dc3af&id=393be6980b&e=873e5bd3a2>

Send questions to: [qmc@samsi.info](mailto:qmc@samsi.info)

## North Carolina State University -Bridge to the PhD Program

**Data-Enabled Science and Engineering of Atomic Structure (SEAS) North Carolina Central University—  
North Carolina State University Bridge to the PhD**

The SEAS Bridge to the PhD is a unique, interdisciplinary program designed to increase the quantity and quality of students of underserved populations who complete doctoral degrees in the physical sciences, engineering, and mathematics disciplines. This program focuses on the application of advanced statistical methods to data generated from cutting-edge analytical and computational experiments. Students pursuing a Master's of Science (MS) degree at NCCU receive dual credit towards a PhD at NC State, engage in scientific research, co-advised by NCCU and NC State faculty, build a network of peers and faculty, receive financial assistance between \$10,000 and \$34,000 for up to two years, develop skills to successfully achieve a PhD, and enhance their career opportunities.

## **Interested students must:**

- Be accepted into a MS program at NCCU in a physical science or mathematics discipline  
<http://www.nccu.edu/academics/sc/graduatestudies/> (Deadline - July 1, 2017)
- Demonstrate a strong desire to pursue a PhD
- Be willing to commit to all program requirements
- Contact SEAS Coordinator to be considered

**Contact:** Dr. Ashleigh R. Wright, Coordinator [seas\\_graduate\\_nrt@ncsu.edu](mailto:seas_graduate_nrt@ncsu.edu) <https://research.mse.ncsu.edu/seas>

## Summer Cryptology Instructor Opportunities

The Johns Hopkins University Center for Talented Youth (CTY) is seeking applicants interested in summer employment as a **Cryptology Instructor**. Positions are available in **Los Angeles, CA (Loyola Marymount University)** and **Lancaster, PA (Franklin & Marshall College)**. CTY offers challenging summer academic programs for middle and high school students from across the country and around the world. More information regarding our summer programs can be found at [www.cty.jhu.edu/summer](http://www.cty.jhu.edu/summer).

### Why teach for CTY?

- share your passion for mathematics with highly motivated and talented students
- be a part of an intellectual community
- teach in a supportive, collegial environment
- work alongside dedicated educators from around the world
- limited class size (15 students), plus an instructor and assistant for each class, ensures a low student-teacher ratio
- competitive salary plus room and board

### Cryptology

In this math course, students begin their journey with an exploration of many early techniques for creating secret writing, such as cipher wheels, the Caesar shift, monoalphabetic substitution, and the Vigenère cipher. They move on to learn about modern

techniques including RSA public key cryptography. Delving deeper into modern techniques, students explore how data transmitted by computer can be secured with digital encryption.

### Salary

First-year CTY instructor salary ranges from \$4800 to \$6000 for two three-week sessions, plus room and board on campus.

**Location and dates** (instructors can work one or both sessions)

- Los Angeles, CA** (Loyola Marymount University) - Session 1 (June 22 - July 15) and Session 2 (July 15 – August 5).
- Lancaster, PA** (Franklin & Marshall College) – Session 1 (June 22 - July 15) and Session 2 (July 15 – August 5).

### To apply:

Please fill out an application at: [www.cty.jhu.edu/jobs/summer](http://www.cty.jhu.edu/jobs/summer). Please email inquiries directly to Frannie Worek at [fworek@jhu.edu](mailto:fworek@jhu.edu).

## Assistant Professor of Mathematics opening at The Ohio State University at Marion

The Ohio State University at Marion invites applications for 1 to 2 full-time tenure track Assistant Professor positions in the Department of Mathematics to begin in Autumn 2018. Candidates must have a Ph.D. in hand at the time of appointment; postgraduate teaching experience is preferred. Candidates must have a strong commitment to teaching and research.

Teaching and service for this position will occur primarily at The Ohio State University at Marion, which is one of the six campuses of The Ohio State University and is located 45 miles north of the central campus in Columbus. Tenure track faculty on the Marion campus hold appointments in their academic departments on the Columbus campus and have access to relevant labs, libraries, and resources there.

We seek candidates with diverse teaching expertise who will teach students of varying abilities. Responsibilities will include teaching math courses (at the preparatory, first, and second-year level), research and publication, and service to the campus, university, and discipline. Candidates are expected to have a strong research program and advise graduate students at the Columbus campus. Candidates should submit a detailed cover letter, a statement of teaching philosophy and experience and a statement of research interests, experience, and future plans. Also, included should be current Curriculum Vitae, graduate transcripts, quantitative and/or discursive teaching evaluations, and three current letters of reference (at least one of which should address teaching ability and experience).

Electronic submissions are encouraged and should be sent to: [mrnmath@osu.edu](mailto:mrnmath@osu.edu), or send application materials to:  
Math Faculty Search  
The Ohio State University at Marion  
Human Resource Office  
1461 Mt. Vernon Ave.  
Marion, OH, 43302

Application review begins September 30 and continues until the position is filled. Completed applications arriving by September 30, 2017 will receive priority. The university requires successful completion of a background check.