



Newsletter

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Attendees of 2018 NAM Undergraduate MATHFest



Some of the illustrious students who attended the 2019 NAM MATHFest at Spelman College, September 28 - 30, 2018

The National Association of Mathematicians (NAM)

publishes the NAM Newsletter four times per year.

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NAM's History and Goals: The National Association of Mathematicians, Inc. (known as NAM) was founded in 1969. NAM, a nonprofit professional organization, has always had as its main objectives, the promotion of excellence in the mathematical sciences and the promotion and mathematical development of under-represented minority mathematicians and mathematics students. It also aims to address the issue of the serious shortage of minorities in the

workforce of mathematical scientists.

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NAM's Official Webpage: <http://www.nam-math.org>

Newsletter Website: The NAM website has a list of employment as well as summer opportunities on the Advertisements page. It also features past editions of the Newsletter on the Archives page.

Letters to the editor and articles should be addressed to Dr. Omayra Ortega via e-mail to editor@nam-math.org.

From the Editor



Dr. Yeunde Olubummo shared her opinion on how we can encourage young people to persist in mathematics in an interview by Nigeria's Premium Times newspaper. We also gained more international perspective from Dwight Anderson Wright II, a PhD candidate who attended the 2018 International Congress of Mathematicians. In honor of the unveiling of the new Mathematicians of the African Diaspora (MAD) Pages, we are running a two-part

This winter NAM has much to be thankful for. The hugely successful 2018 NAM MATHfest was held on Spelman College's beautiful campus, thanks to generous funding from both the National Science Foundation and Spelman College. Spelman's own

article on the MAD Pages. The first appears in this newsletter, while the second part will appear in the spring newsletter.

The NAM newsletter is also moving towards a more global perspective on mathematics and NAM's place in global politics. To that effect, we encourage our readers to update their contact information on the NAM website, and elect to receive the NAM newsletter electronically only. The rise in global environmental issues such as air and water pollution, climate change, overflowing landfills and clear-cutting have all led to the necessity of organizations such as NAM to review our own contributions to this global issue and our policy around printing and resource use. If you have any questions about this update to our newsletter policy, please email me directly at editor@nam-math.org.

Sincerely, Dr. Omayra Ortega



Publishing in the NAM Newsletter

Submissions: The *NAM Newsletter* is a quarterly publication. Articles and letters should be submitted electronically to the editor at editor@nam-math.org, or by postal mail to Dr. Omayra Ortega, NAM Newsletter, Sonoma State University, Department of Mathematics and Statistics, 1801 E. Cotati Ave., Rohnert Park CA 94928. You can find more information at the web page

<https://www.nam-math.org/submitting-advertisements-and-articles.html>

Advertising:

NAM Online Advertisement Policy: As a part of its Newsletter Advertising, a copy of the advertisement will be placed on the web during the period it appears in the quarterly Newsletter - at the Job Openings website.

NAM Newsletter Print Advertisement Policy for Non-institutional Members: Receipt of your announcement will be acknowledged. You will be billed after the advertisement appears. A copy of the advertisement will be placed on the *NAM Newsletter* website during the period it appears in the *NAM Newsletter*. To estimate the page size, use 12 point font on a standard size page.

1. One issue advertising

A. One-fourth page	\$200
B. One-third page	\$300
C. One-half page	\$400

D. Two-thirds page	\$500
E. Three-fourths page	\$600
F. One whole page	\$800

*advertisements over one page are pro-rated

2. Consecutive, multiple issue advertising

Each consecutive issue thereafter 75% of the first issue charge.

NAM Newsletter Print Advertisement Policy for Institutional Members: Receipt of your announcement will be acknowledged. You will be billed after the advertisement appears. Institutional Members of NAM are entitled to one 1/4 page advertisement at 1/2 the regular price during the fiscal year of their membership. Additional advertisements follow the above stated cost structure. A copy of the advertisement will be placed on the *NAM Newsletter* website during the period it appears in the *NAM Newsletter*. To estimate the page size, use 12 pt font in your favorite word processing program on a standard size page.

Deadlines: The deadlines for submissions and advertisements can be found in the following table.

Edition	Deadline
Spring	February 13
Summer	May 13

Edition	Deadline
Fall	August 13
Winter	November 13

Advertisements should be submitted electronically to the editor at editor@nam-math.org, or by postal mail to Dr. Omayra Ortega, NAM Newsletter, Sonoma State University, Department of Mathematics and Statistics, 1801 E. Cotati Ave., Rohnert Park CA 94928.

We reserve the right to reject any advertising that is not consistent with the stated goals of NAM, or that is in any way deemed inappropriate.

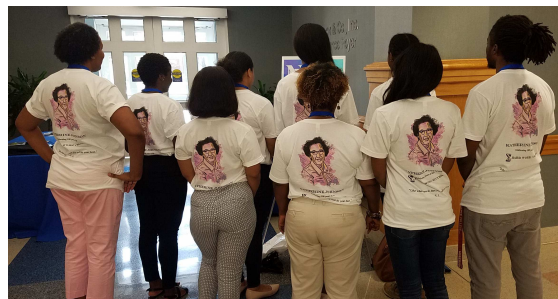


The 2018 NAM MATHFest, a Resounding Success

by *Omayra Ortega*



hosting the event, and the local organizer, Dr. Monica Stephens for her hard work and dedication.



Attendees showing off the event t-shirt which honored Katherine Johnson's 100th birthday

The 2018 Undergraduate MATHFest was held on Friday, September 28 through Sunday, September 30 at Spelman College. The event was a great success with students giving both oral and poster presentations. Dr. Michelle Craddock Guinn gave the 2018 J. Ernest Wilkins Lecture, titled, "Enhancing Imagery Techniques." We want to thank everyone who attended and the National Science Foundation whose generous funding made the event possible. We especially want to thank Spelman College for

Omayra Ortega is the editor of the NAM newsletter. She can be reached at editor@nam-math.org. □

Results of the 2018 NAM Elections

Thank you to all members who took the time to vote. We appreciate you taking the time to contribute to the success of this organization.

Congratulations to our newly elected board members!!!

Vice President: Naomi Cameron, *Lewis and Clark*

Region A Member: Chinenye Ofofiele, *Albany State University*

Region B Member: Shea Burns, *NC A & T*

Majority Institution Representative: Michael Young, *Iowa State*

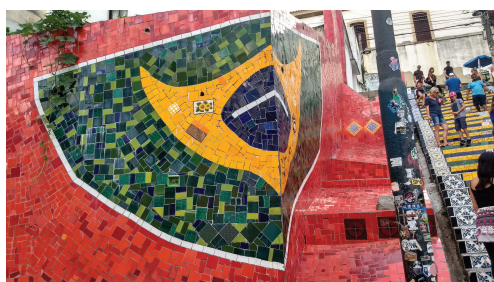
Outside Academia Representative: Carla Cotwright-Williams, *Social Security Administration*



The International Congress of Mathematicians: A Math Conference for Everybody

by Dwight Anderson Williams II

Quick! Name that quadrennial event celebrating excellence and wonder which brings hundreds of nations to a select summer destination, say, Rio de Janeiro, Brazil! While the Summer Olympics is a great answer, consider the International Congress of Mathematicians (ICM), which took place August 1 - 9 in Rio and is the world's largest international math conference.



"Escadaria Selarn, also known as the 'Selaron Steps', is a set of world-famous steps in Rio de Janeiro, Brazil."
-Wikipedia

Now perhaps, "Congress of Mathematicians" invokes a sense of exclusivity, but, actually, ICM is for everyone—increasing support and access being an essential assumption to the claim. A proof by case follows:

Awardee Case: Are you a Fields Medal winner, or perhaps you will be! Well, ICM provides ceremonies for the awarding of the Fields Medals, Chern Medal, Gauss Prize, Leelavati Prize, Nevanlinna Prize, and other honors. Certainly, ICM is for you!

Math Student Case: Take one's studies beyond the text! At ICM students walk into a world of interdisciplinary talks, exhibits, poster presentations, and conversations. The interactions of people and subject matter can include futures conference invitations, taking pictures with American Mathematical Society (AMS) President Ken Ribet and Fields Medal winner Caucher Birkar, learning

how a woman from Trinidad and Tobago effectively teaches calculus in South Korea, hearing the current status of Gelfand-Tsetlin theory in Lie algebras, enjoying an augmented reality sandbox, or simply catching lunch with new friends from around the globe. With professional societies providing grants and governments encouraging broader access, ICM gives students the ability to breathe in opportunity and taste a unique experience. As long as these support systems are maintained and updated, ICM is for the student in mathematics!

Professional Case: Suppose you are a professional mathematician in academia, industry, government, etc... Then you have a platform to showcase your research, facilitate the experiences listed above in the "Math Student Case", meet future colleagues, participate in panels, and steer the future of international mathematics. Historically speaking, ICM has always been for you. It's in the name!



Dwight Williams with Dr. Ken Ribet, the president of the American Mathematical Society

Anyone and everyone: Now similar to the Olympics, ICM has far-reaching effects on local and global communities. The positive influence of ICM, however, is to concretely involve youth of the hosting country to inspire future mathematical minds. There are also public lectures, and the media plays a key role in sharing the ongoing work and potential



of mathematics in helping peoples from near and far.

Moreover, any attendee can share in global relationship building: for example, a host country such as Brazil, with welcoming vibes, can lead to language-sharing via WhatsApp, so new friends can help each other learn Portuguese and English and Spanish and more.



Exhibition Hall featured GEOMETRIA E IMAGINAO!

But what if you are a person who doesn't enjoy listening to high-level math talks? You may be like the undergraduate anthropology major from California who found himself at the the Leelavati Prize presentation, his first math talk. He and every member of the auditorium felt the movement as Ali Nesin detailed the passionate work of liberation through education and the resolve necessary in

overcoming a multitude of obstructions to a dream, now come true, called Math Village. Anyone can relate to the journey of accomplishing a goal!

Undoubtedly, ICM is an event for a lifetime, but thankfully it occurs every four years. And the conference will continue to be for everyone if everyone works to keep the claim alive: Fields Medal winners, continue to show up to the event and make yourselves available like Sir Michael Atiyah did so in Rio; math students, apply for grants and share a desire to participate in global mathematics; professionals, vote in your respective organizations to provide funding and support for the next group of mathematicians to attend ICM; and, everybody, spread the knowledge of an amazing world display established by mathematicians but geared for all.

See you all in Saint Petersburg, Russia, for ICM 2022!

Dwight Anderson Williams II is a PhD candidate at the University of Texas at Arlington. He can be reached at dwrightawilliams@mavs.uta.edu. □

What, to the African American Mathematician, is “Social Justice”?

by Edray Herber Goins

Recently, I was asked as president of NAM to make an official statement about how “social justice” reflects the goals and mission of organization. In thinking about this, I had to re-read the scathing 1852 address “What to the Slave Is the Fourth of July?” by Frederick Douglass.



In his famous oration, Douglass exclaims: “What, to the American slave, is your 4th of July? I answer: a day that reveals to him, more than all other days in the year, the gross injustice and cruelty to which he is the constant victim.” While I would not equate the African American experience with that of the American slave, I would use the “Peculiar Institution” to account for similarities in experiences among those from the African Diaspora. Indeed, Douglass used this address to eloquently detail the myriad of inequities built into the nascency of the United States which are fundamentally at



odds with the prosperity of the Negro.

Wikipedia defines “social justice” as a concept of fair and just relations between the individual and society. The leadership of NAM feels that “social justice” is a term which encompasses and embodies the African American experience, and cannot be separated from the concept of “equity in mathematics”. Indeed, there are many issues relevant to blacks in this country which can be addressed using mathematics. For example, individuals such as and Andrea Bertozzi (UCLA) have used partial differential equations to study how the placement of police precincts can help with neighborhood crime; while individuals such as Lily Khadjavi (Loyola Marymount University) have considered the statistics of how African Americans are unfairly harassed at routine traffic stops. Even Bob Moses (Algebra Project), a well-known individual who has

worked tirelessly to increase mathematical literacy among African American youth, believes that mathematics *is* a civil rights issue.

As the recent efforts by Colin Kaepernick have taught us about placing social justice issues in non-traditional settings, it is easy to become derailed by the question of “Does social justice have a place in mathematics?” rather than “How can we use mathematics in the classroom to address the issues our students are facing outside of the classroom?” The leadership of NAM hopes that every organization with even the slightest interest in the well-being of marginalized groups finds strong wording to make social justice a central issue of its charge.

Edray Herber Goins is the President of NAM. He can be reached at president@nam-math.org. □

Clemson Ph.D. student to mingle with worlds brightest computer scientists, mathematicians

by Scott Miller

CLEMSON Clemson University Ph.D. student Byron Lowens is among just 200 young researchers from around the world selected to participate in this years Heidelberg Laureate Forum in Heidelberg, Germany.

The weeklong forum Sept. 23-28 allows the worlds top young mathematicians and computer scientists to meet the most accomplished scientists in their fields: recipients of the Abel Prize, the ACM A.M. Turing Award, the ACM Prize for Computing, the Fields Medal and the Nevanlinna Prize.

It will be profound, a once-in-a-lifetime experience, Lowens said. All of these laureates were, at some point, a graduate student just like I am now. The opportunity to meet with some of the great minds of the fields of computer science and mathematics is indeed a rewarding experience.

Lowens is pursuing a doctorate in human-centered computing under the guidance of Kelly Caine, associate professor in the School of Computing. When not conducting research, Lowens is actively involved in the Clemson and surrounding community. He regularly volunteers to introduce students particularly minority students traditionally underrepresented in the field to computing and offer guidance about life in general.

The service you do for others is the rent you pay for your room here on Earth, Lowens said. True success is not attained through what we gain from material possessions, but by leading a fulfilling life. To me, there is nothing more fulfilling than knowing I have made a difference in the life of someone else. The little success that I have attained has been supported by others who have taken the time to inspire and uplift me. It is my due diligence to lift others



as I continue to climb.

That commitment is one of the reasons Caine nominated Lowens for the Heidelberg forum.



Clemson University Ph.D. student Byron Lowens

Aside from Byrons academic excellence and scientific talent, I know Byron will bring this experience back to the community and it will have far-reaching impacts, Caine said. Byron will use this experience to inspire people to pursue computer science or whatever their dreams might be.

For his Ph.D. research, Lowens is investigating behaviors associated with the use of wearable technologies that track, report and archive users health and fitness activity. While these devices can help to improve user health and well-being, they also open new avenues for privacy information to be shared.

Through his research, Lowens hopes to inform the development of human-centered interaction techniques that can be incorporated into any wearable device allowing users to maintain granular control over their personal health information while alleviating concerns associated with the unintentional usage of their personal health data stored on wearable technologies.

Some users may be under the impression that health data generated by wearable devices is only available to them, Lowens said. But the device manufacturers, cell phone providers and others may

be able to access health-related data, in some cases even for malicious intent. It is important to develop privacy-enhanced solutions that allow users to better manage their privacy on wearable technologies.

My field of research utilizes a combination of computer science, design and psychology to evaluate the cooperative relationship between humans and computational technologies not just how people use computational technologies, but how these technologies affect the society as a whole, he said. The research I do affords me the opportunity to drive positive social change and improve the interaction between humans and technology. This is why I chose this discipline.

A native of Monroe, Louisiana, Lowens received his bachelors degree from Southern University and his masters degree from Virginia State University.

The Heidelberg Laureate Forum Foundation The Heidelberg Laureate Forum Foundation (HLFF) annually organizes the Heidelberg Laureate Forum (HLF), which is a networking event for mathematicians and computer scientists from all over the world. The sixth Heidelberg Laureate Forum takes place from Sept. 23 to 28. The HLFF was established and is funded by the German foundation Klaus Tschira Stiftung, which promotes natural sciences, mathematics and computer science. The scientific partners of the HLFF are the Heidelberg Institute for Theoretical Studies and Heidelberg University. The HLF is strongly supported by the award-granting institutions, the Association for Computing Machinery, the International Mathematical Union and the Norwegian Academy of Science and Letters.

Scott Miller is a staff writer for the Research Division of The NewsStand, a publication of Clemson University. His email is srm4@clemson.edu. □

Friend of NAM, I am seeking former students of **Dr. Clarence Stephens** to interview as part of my dissertation on the Morgan-Potsdam Method. For reference, here is a link to a previous professional project on Scott W. Williams can be found at: <https://prezi.com/p/cbpyqk12cu8m/>. Please contact me at kstewar3@ilstu.edu for more information. Thank you in advance for your time and consideration,

Karon Stewart, Mathematics Department, Illinois State University



Advanced Mathematics Program

by Tim McEldowney

The University of California, Riverside is a predominantly Hispanic Serving Institution located in the greater Los Angeles area. As a research institution with a multicultural undergraduate population, UC Riverside has the potential to diversify higher education. Yet despite these goals, underrepresented minority math majors seldom pursue careers in mathematics after earning their Bachelors degrees.



To address these issues, Tim McEldowney, a doctoral candidate in mathematics at UC Riverside, created the Advanced Mathematics Program (AMP) with the support of the mathematics department. Dr. Po-Ning Chen, an Assistant Professor of Mathematics, serves as the faculty mentor for the program. Every summer, AMP offers a free, month-long preparatory workshop devoted to abstract algebra and real analysis. Early exposure to this difficult material increases student confidence and comprehension. By providing undergraduate math majors with the necessary tools to succeed in these proof-based mathematics courses, AMP opens the door to new career opportunities for them

Economic obstacles often hinder students from pursuing degrees in mathematics—students are sometimes forced to choose between attending class or work. To address this issue, the Advanced Mathematics Program is free for students to attend. To support this program, Tim McEldowney and Po-Ning Chen were awarded a mini-grant from the NSF INCLUDES project Women Achieving Through Community Hubs in the US and a 2018 MAA Tensor-SUMMA (Strengthening Underrepresented Minority Mathematics Achievement) grant. This support has ensured the diversity of the program, such that the program was comprised of 55 percent women and 48 percent Latinx or Hispanic.



NAM President Goins with AMP students

The Advanced Mathematics Program invited 5 career mathematicians to speak during the summer workshop. These speakers taught the participants about their research, teaching and service work in the field of mathematics. AMP's first speaker was Dr. Edray Herber Goins, the President of the National Association of Mathematicians, who later helped participants of the program attend NAM's Undergraduate MathFest 2018 in Atlanta, Georgia.



AMP students at the 2018 NAM MATHFest

In the coming year, the Advanced Mathematics Program will continue to provide support to participants to advance their careers in mathematics, including help applying to REUs and graduate programs. AMP is also planning to invite students from other universities in the Inland Empire to attend the summer workshop.

Tim McEldowney A Math PhD Candidate at UC Riverside who serves as the AMP Coordinator. They can be reached at tmce1001@ucr.edu. □



An Existence Proof: The Mathematicians of the African Diaspora Website - Part I

by Erica Walker, Scott Williams, and Robin Wilson

In Mathematics, more than any other field of study, have we heard proclamations and statements similar to, "The Negro is incapable of succeeding." Ancient and present achievements contradict such statements. One of the purposes of this website is to exhibit the inaccuracy of those proclamations by exhibiting the accomplishments of the peoples of Africa and the African Diaspora within the Mathematical Sciences.

INTRODUCTION

In 1792, Thomas Jefferson who was secretary of state at the time but would soon become the third President of the United States expressed his opinion about the potential for an entire race of people to contribute in a meaningful way to the mathematical sciences:

"Comparing them by their faculties of memory, reason, and imagination, it appears to me that in memory [the Negro] are equal to the whites; in reason much inferior, as I think one could scarcely be found capable of tracing and comprehending the investigations of Euclid; and that in imagination they are dull, tasteless, and anomalous."

Over 100 years later, in the 20th century these attitudes were still prevalent in American society and were not only embraced by the academy in America and Europe; indeed, academics were the source of many of these racist attitudes and beliefs. In *The Measure of Intelligence*, Stanford Professor and former American Psychological Association President Lewis Terman stated in 1916 about "Mexican families of the southwest and American Negroes" that "They cannot master abstractions, but they can often be made efficient workers" and that "from a eugenic point of view they constitute a grave problem because of their unusually prolific breeding". The consequences of such attitudes still have widespread repercussions today as evidenced by Lisa Delpits book *Multiplication is for White People*, when she shares the story of a middle school math student telling his teacher "Black people don't

multiply; black people just add and subtract. White people multiply."

Growing up in Baltimore, Maryland in the 1940s and 50's Scott Williams was no stranger to these myths. Scott decided to earn his PhD at the age of 12 after his mother took him to visit MIT. He went on to study mathematics at Morgan State University under the late-great Clarence Stephens, and he earned his PhD in 1967 in General Topology from Lehigh University. Scott's upbringing in the large Black community of Baltimore, as well as his experience at Morgan State University, provided him with a large amount of evidence of black intellectual excellence, and left little room for doubt about his own potential. After earning his PhD he joined the faculty in the Department of Mathematics at SUNY Buffalo in 1971, and documented his own struggles with racism at the university in the 1970's.

Much later in his career, Scott decided to experiment a bit with the relatively new thing called "the internet" by building his own website so that he could learn to code in html along the way. It was to become the latest of one of his many hobbies that also include art and poetry. The content of the site was to be motivated by one purpose: To dispose of the myths of the inability of people of African descent to excel in the mathematics classroom and to perform mathematics research at the highest levels. To do this he would focus on both the historical contributions of the continent of Africa to the early development of mathematics, as well as share profiles of as many mathematicians of African descent with PhDs that he could find. He ended up with a list of profiles for over 500 mathematicians from around the African Diaspora, with most of them alive and working at the time his site first went live. Scott called the website the "Mathematicians of the African Diaspora" or the MAD pages for short. The acronym was not only catchy but it also represented the subtle sentiment of a large number of blacks in the mathematics community that had



to persist in the discipline despite experiences with overt racism and other forms of wide-ranging systematic attempts to exclude and discourage them from participating.

It was around my junior year in college when I decided to take on mathematics as a major. Despite my success with my mathematics courses it was not an easy decision, especially since it meant I was going to be isolated as one of the only black math majors at the institution. I was also putting my education in the hands of faculty who had not experienced many, if any, black students in their classrooms and provided no mentorship. In fact, when I decided that I would go into mathematics at one point in time I thought for a moment that I could be the first black mathematician because I didn't know of anyone before me that had chosen this path. It was around this time that I discovered Scott Williams' website *Mathematicians of the African Diaspora*. I was amazed to find the profiles of over 500 black mathematicians. From Scott's site I learned that the first black mathematician was Frank Elbert Cox, who earned his PhD in 1925 from Cornell University. This achievement is remarkable for the fact most institutions in the US frowned upon having black students at any level, and in addition only 28 PhDs in mathematics were given out that year.

From the MAD pages I also learned about people such as J. Ernest Wilkins who earned his PhD in mathematics at 19 in 1936, the same year that Jesse Owens sent his own blow to the Eugenics movement with his 4 gold medals in the 1936 Summer Olympics in Berlin. And about Euphemia Lofton Haynes, the first Black woman to earn a PhD in the US in 1943, four years before Jesse Owens joined the Brooklyn Dodgers and 13 years before Althea Gibson became the first woman of color to win a Grand Slam title in Tennis (the French Open). I also found it quite frustrating that as a young person I learned a lot about these athletic achievements that I was told I could aspire to, yet I learned nothing in school or at home about these great intellectual achievements.

I also spent time searching the sites' historical information on the contributions of the African continent to mathematics from the dawn of time to

the present. Scott painted a picture of a continuous stream of contributions by people of the African Diaspora from pre-history to the present that started with some of the oldest mathematical artifacts ever found, the Lebomo and Ishango Bones, the Ahmes (or Rhind) Papyrus, and the Moscow Papyrus. The story continues through the trans-Atlantic slave trade and includes Thomas Fuller, the slave born in Africa who could perform extraordinary feats of mental arithmetic; as well as Benjamin Banneker, who was a contemporary of Thomas Jefferson and made contributions to both astronomy and mathematics. The story picks up immediately after slavery with figures like Kelly Miller, who was the first black mathematics graduate student at Johns Hopkins from 1887-1889. Miller went on to teach mathematics at Howard University, and hired Elbert F. Cox and many others. The MAD site takes us up to present day, and for several years the site was updated annually with profiles of the new Black mathematics PhD's that graduated each year until Scott stopped maintaining the website around 2006.

The value of this resource should not be overlooked. This was a labor of love that Scott Williams took on as a hobby for almost years. He also did not anticipate the number of responses he would receive from students and teachers around the country, nor could he imagine the number of lives he would touch that he will never hear about. I can say almost with certainty that without having found Scott's site I would not have had the persistence to continue in mathematics as a student, nor would I have the same foundation and perspective needed for me to find my place in the mathematics community as a professor.

Scott stopped maintaining the website when he retired from SUNY Buffalo. While the site is still up on the SUNY Buffalo servers (<http://www.math.buffalo.edu/mad/>) there has been a recent effort, led by the National Association of Mathematicians, to transfer the content of the MAD pages to a new server host and to modernize the website.

In the second part, to be printed in the spring NAM newsletter, you will find a reflection on the website and its impact from Scott Williams in his own words. Also included is an essay from Erica



Walker, author of Beyond Banneker: Black Mathematicians and Paths to Excellence, where she shares the importance of the website to her own work as well as the larger mathematics education community.

Erica Walker, Scott Williams, and Robin Wilson are representatives from the NAM MAD Pages Editorial Board. This article is the first in a series of articles commemorating the re-establishment of the Mathematicians of the African Diaspora MAD website. Send correspondences to Robin Wilson at robinwilson@cpp.edu. □

Interview of Dr. Olubummo: International Researcher and Role Model

by Bunmi Fatoye-Matory

Yewande Olubummo, Associate Professor at Spelman College, is the daughter of the renowned late Professor Adegoke Olubummo, one of Nigeria's first modern mathematicians. As the mango does not fall far from the tree, Yewande Olubummo herself is a professor of mathematics at Spelman College in Atlanta, and has been for over two decades. She made a First Class in Mathematics at the University of Ibadan and proceeded to study in the United States for higher degrees. She shares her insights and experiences with PREMIUM TIMES about her journey from being the daughter of an eminent mathematician to being a scholar of Mathematics in the United States.



Dr. Yeunde Olubummo

PT: Where did you go after International School?

Professor Olubummo: I attended the University of Ibadan to study mathematics. In fact, my father

taught me some courses. I lived at home during my undergraduate years because my father insisted on it. I wanted to live on campus, but looking back, I'm grateful for my father's decision.

I don't think I was mature enough to live by myself on campus during those years. I graduated in 1980 and did my national youth service in Keffi, Plateau State.

As a Youth Corper, I taught mathematics at a high school. After my national service, I left for the U.S. immediately.

PT: What was your experience?

Professor Olubummo: I didn't have a good experience at Yale. I didn't know what was expected and I didn't have any support. It was a lonely and isolating experience and I didn't do well in my doctoral oral exams.

I was 21, a naive 21, and I was the only black person in my department. To stave off loneliness, I became active in the Nigerian community at Yale and New Haven. I went to parties and had a busy social life.

I ended up getting my Masters degree in mathematics from Yale. It so happened that an African-American professor was visiting Yale from the University of Massachusetts, Amherst at the time. He took an interest in me and invited me to apply to UMass Amherst.

I did, and was accepted. I spent the next 8 years getting my Ph.D. there. My father was dis-



appointed I did not complete the Ph.D. program at Yale, but I felt I was lucky to find someone who took an interest in me and encouraged me not to give up.

PT: What did you do after Amherst?

Professor Olubummo: I wanted to teach, so I started applying for teaching positions in universities around the country. This was in the early '90s. I was already teaching math full time at Smith College while writing my dissertation.

The job market in the U.S. was tough and the situation in Nigeria was not good either. I was lucky to get a couple of offers. I got an offer from Spelman College in Atlanta. An African-American mathematician from Spelman was visiting Smith to evaluate their math department at the time. Her name is Sylvia Bozeman.

She encouraged me to apply to Spelman. It's because of her that I'm at Spelman today. She has been my colleague and mentor for over two decades. She and the other African-American professor who was visiting Yale, Professor Donald St. Mary, were critical to my professional advancement. They are both eminent black Mathematicians in the United States.

PT: What challenges do you face as a Math professor?

Professor Olubummo: Funding. Being able to get funding for what one wants to do. For example, we couldn't sustain the Math RaMP program as we would have liked. There are lots of ideas of programs to help students, but the funding is not always there.

PT: What is your experience as a black female immigrant Mathematics professor?

Professor Olubummo: I've had a very positive and rewarding experience at Spelman. My students see me as a role model, which is very fulfilling. I have great colleagues and as I said earlier, I owe my presence here to my colleague and mentor, Professor Sylvia Bozeman.

Outside of Spelman, I feel treated at times as if I don't belong, because of the colour of my skin and gender. I feel not as valued as a part of the profession.

PT: Are you talking about racism?

Professor Olubummo: Yes. I felt it more as a student at Yale. It was not a positive experience. I didn't

feel I belonged and I think the professors there gave more time and attention to the white students.

PT: Some people think African immigrant and African-American professionals have conflicts. Your experience is different.

Professor Olubummo: Yes. As I said earlier, two African-American mathematicians were instrumental in my career advancement here. I am forever grateful to them. If not for them, I won't be here today. They mentored and encouraged me.

I'm also lucky to be at Spelman and teaching young black women. So many of my students are excelling in their chosen careers and I am very proud of them. Spelman has some of the best American minds. It is worth noting that the National Association of Mathematicians is an organisation of black mathematicians in the US.

My colleague and mentor, Professor Bozeman is an active member. The organisation is made up of African and African-American mathematicians who work to promote the mathematical development of underrepresented minorities.

PT: You just got back from Nigeria. What did you go for?

Professor Olubummo: I went back to Nigeria for two months after sixteen years of being away. I got some funding from the Carnegie African Diaspora Fellowship Program to develop and teach a graduate mathematics course at Kwara State University in Ilorin.

It was a gratifying experience because I had the opportunity to do something I have always wanted to do — teach in Nigeria. I had seven students in my class, two women and five men. I felt I was giving back to Nigeria in a small way at the university there.

PT: What course did you teach?

Professor Olubummo: I taught a course called Banach Algebras in an area of Math called Functional Analysis. Functional analysis involves the theory of mathematical functions. It's an area of pure Math, and is more theoretical. They don't have enough expertise in the mathematics department at Kwara State University, so I was able to help.

PT: Given the great anxiety around learning Math, how do you think parents could help their children with Math?

Professor Olubummo: Parents should try not to communicate



their own anxiety to their children around math education. They should be actively involved and encourage their children to enjoy Math. There is a lot of information on the internet now on how a parent, even one who did poorly in Math as a student, can help his or her children.

Apart from Math activities at home, children should be encouraged to participate in activities such as math fairs and competitions. Girls, es-

pecially, should be given attention. Math should be made fun, and not something to be dreaded. Parental attitude and encouragement matter a lot in children's perception and performance in Math.

Bunmi Fatoye-Matory is a staff writer for the Premium Times Nigeria They can be reached at info@premiumtimesng.com. □

Town Hall Meeting on the Status of the African Diaspora in the Mathematical Sciences



2019 Joint Mathematics Meetings
Thursday, January 17, 2019
Baltimore Convention Center, Room 316

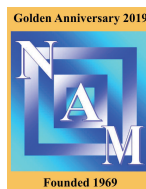
5:30 PM: Reception
6:00 PM: Panel Discussion

Melvin R. Currie (National Security Agency —Retired)
Raegan Higgins (Texas Tech University)
Tanya Moore (Goodwill of San Francisco)
Michael Young (Iowa State University)

Moderated by Ulrica Wilson (Morehouse College)

We welcome participants and members of:

- Conference for African American Researchers in the Mathematical Sciences (CAARMS)
- Enhancing Diversity in Graduate Education (EDGE)
- Infinite Possibilities Conference (IPC)
- National Association of Mathematicians (NAM)



Sponsored by the National Security Agency (NSA) and the National Association of Mathematicians (NAM).

For more information, contact Edray Goins at president@nam-math.org.



NAM Events at 2019 JMM Baltimore MD

AMS Special Session I: The Mathematics of Historically Black Colleges and Universities (HBCUs) in the Mid-Atlantic

Thursday January 17 from 8:00 AM – 12:00 PM, Room 314, Baltimore Convention Center

AMS Special Session II: The Mathematics of Historically Black Colleges and Universities (HBCUs) in the Mid-Atlantic

Thursday January 17 from 1:00 PM – 4:00 PM, Room 314, Baltimore Convention Center

National Association of Mathematicians (NAM) and the National Security Agency (NSA) Special Presentation

Town Hall Meeting on the Status of the African Diaspora in the Mathematical Sciences

Thursday January 17 from 5:30 PM – 7:00 PM, Room 316, Baltimore Convention Center

MAA Invited Paper Session: The Past 50 Years of African Americans in the Mathematical Sciences

Friday, January 18 from 9:00 AM – 12:00 PM, Room 317, Baltimore Convention Center

Haynes-Granville-Browns Session of Presentations by Recent Doctoral Recipients

Friday, January 18 from 1:00 PM – 5:00 PM, Room 333, Baltimore Convention Center

NAM Centenarian Awards

Friday, January 18 from 7:00 PM – 7:15 PM, Holiday Ballroom 6, 2nd Floor, Hilton

NAM Founder's Awards

Friday, January 18 from 7:15 PM – 7:30 PM, Holiday Ballroom 6, 2nd Floor, Hilton

NAM Lifetime Achievement Awards

Friday, January 18 from 7:30 PM – 7:45 PM, Holiday Ballroom 6, 2nd Floor, Hilton

Cox-Talbot Lecture

Friday, January 18 from 7:45 PM – 8:35 PM, Holiday Ballroom 6, 2nd Floor, Hilton

NAM Panel Discussion: Where Do We Go from Here?

Saturday January 19 from 9:00 AM – 9:50 AM, Room 316, Baltimore Convention Center

NAM Business Meeting

Saturday January 19 from 10:00 AM – 10:50 AM, Room 316, Baltimore Convention Center

Claytor-Woodard Lecture

Saturday January 19 from 1:00 PM – 1:50 PM, Room 316, Baltimore Convention Center



We find math people **everywhere.**



Join the fun **Saturday, May 4, 2019** in Washington, D.C.

nationalmathfestival.org



Job Openings

University of North Carolina - Asheville

The Department of Mathematics at UNC Asheville, North Carolina's public liberal arts university, invites applications for a full-time tenure-track assistant professor position in Statistics to begin in Fall 2019. Individuals with a passion for undergraduate teaching and interest in a career at an institution focused on the liberal arts are strongly encouraged to apply. Review of applications will begin December 15 and continue until the position is filled. See full ad at <https://jobs.unca.edu/postings/3577>.

National Technical Institute for the Deaf - Rochester Institute of Technology

The NTID Dept. of Science and Mathematics is seeking to fill a tenure-track faculty position in mathematics/statistics. The successful candidate will provide tutoring support for deaf and hard-of-hearing students enrolled in BS-level statistics and mathematics courses; provide direct instruction in associate-level statistics and mathematics courses; undertake a research agenda and publish results in a peer-reviewed journals; mentor and provide informal advising to students; already be or will become proficient in American Sign Language (ASL) as determined by the college sign language proficiency rating system; and fulfill other faculty expectations including those related to service.

For a detailed job description and to apply online go to <http://apptrkr.com/1308893> and search for position 3890BR. The Rochester Institute of Technology is an equal opportunity/affirmative action employer. All individuals with the ability to contribute in meaningful ways to the university's continuing commitment to cultural diversity, pluralism, and individual differences are encouraged to apply.



Soka University of America

Assistant Professor of Mathematics

Description:

Soka University of America (SUA) seeks to fill a full-time tenure-track Assistant Professorship in Mathematics beginning August 2019. This position will support SUAs General Education curriculum for Liberal Arts majors. The teaching load per academic year is five courses. The teaching responsibilities include introductory-level courses in mathematics and statistics, as well as at least one cross-disciplinary course (Core, Modes of Inquiry, or Learning Cluster; see our catalog at www.soka.edu for course descriptions). The successful candidate will demonstrate their ability to engage students in small classroom settings and to develop a productive program of research and scholarship.

SUA is a selective four-year institution offering a challenging program in the liberal arts with a focus on the Pacific Basin. The University's mission is to foster a steady stream of global citizens committed to living a contributive life. The university is committed to an integrated cross-disciplinary education. Students have a choice of concentrations—Environmental Studies, Humanities, International Studies, Social and Behavioral Sciences and soon will have a new Life Sciences concentration. Faculty are encouraged to incorporate interdisciplinary perspectives into their courses, and we invite our candidates to consider how they might do so.

Qualifications:

Applicants must hold a Ph.D. in mathematics or a related field, and preferably will have postdoctoral experience. Experience in teaching an introductory Statistics course, or an introductory Computer Science course, is a plus. Applicants should be versatile enough to teach outside their area of specialization, and demonstrate excellence in teaching and research.

Benefits / Salary:

Salary will be competitive and commensurate with experience. All full-time faculty members are eligible for medical, dental, and retirement benefits.

Deadline for applications: November 5, 2018. Applicants should submit a letter of application, curriculum vitae, a two-page statement of teaching philosophy with regard to students from diverse backgrounds who are pursuing a liberal arts major, evidence of teaching effectiveness, a two-page statement of research interests written for a non-specialist audience and three confidential letters of recommendation to be addressed to Bryan Penprase, Ph.D., Dean of Faculty and submitted directly from referees through the Interfolio platform. Employment is contingent on the completion of a successful background check.

Please apply by clicking on this link: <http://apply.interfolio.com/54253>

Email: facultyrecruiting@soka.edu

Soka University of America is an equal opportunity employer



University of Pennsylvania

The Department of Mathematics at the University of Pennsylvania invites applications for at least one **Senior Lecturer position for a four year period** starting in Academic Year 2019-20; renewable contingent on satisfactory performance and approval of the Dean. The main responsibilities will be teaching undergraduate mathematics lectures, mentoring and training of student workers and teaching assistants, teaching support, and assisting general undergraduate mathematics instruction and curriculum development. The successful candidate will have a Ph.D. in Mathematics or a closely related field, a strong interest and demonstrated success in undergraduate teaching and curriculum development, and outstanding organizational and interpersonal skills.

Applications should be submitted online through MathJobs.org and include the following items: cover letter, curriculum vitae, teaching statement, and at least 3 reference letters from individuals familiar with the applicants teaching and general commitment to undergraduate education.

Review of applications will begin on October 15, 2018 and will continue until the position is filled. The Department of Mathematics is strongly committed to Penn's Action Plan for Faculty Diversity and Excellence and to creating a more diverse faculty (for more information see: <http://www.upenn.edu/almanac/volumes/v58/n02/diversityplan.html>). The University of Pennsylvania is an EOE. Minorities/ Women/Individuals with disabilities/Protected Veterans are encouraged to apply.

University of Pennsylvania

The Departments of Mathematics and Biology invite applications at the level of **Associate or Full Professor for the Calabi-Simons Chair in Mathematics and Biology**. This is a permanent endowed chair for which we are seeking an exceptional mathematical biologist or a mathematician with strong biological interests. The chair-holder will help build excellence in this field at Penn and provide leadership in enhancing interactions between the Mathematics and Biology departments. Responsibilities include teaching undergraduate and graduate courses in Mathematics and Biology and conducting research in the field. The Simons Foundation provides generous programmatic funds, which could support graduate students and postdoctoral fellows as well as seminars and conferences.

Applications should be submitted online through mathjobs.org and include the following items: a cover letter, a vision statement on building a program in mathematics+biology, curriculum vitae, research statement, and a publication list.

Review of applications will begin on October 15, 2018 and will continue until the position is filled. It is anticipated that the position will start July 1, 2019.

The Departments of Mathematics and Biology are strongly committed to Penn's Action Plan for Faculty Diversity and Excellence and to creating a more diverse faculty (for more information see: <http://www.upenn.edu/almanac/volumes/v58/n02/diversityplan.html>). The University of Pennsylvania is an EOE. Minorities/Women/Individuals with disabilities/Protected Veterans are encouraged to apply.

Please address any questions to: personnel@math.upenn.edu.



Johns Hopkins University

The Department of Mathematics at Johns Hopkins University invites applications for a **tenure-track or tenured faculty position** beginning July 1, 2019. The department is seeking candidates in areas of pure mathematics that fit with the existing areas of the department.

Applications must be submitted online at <http://www.mathjobs.org/jobs/jhu>. Please submit the AMS cover sheet, as well as your curriculum vitae and list of publications. Applicants at the tenure-track level should also submit research and teaching statements, and arrange the submission of at least four letters of recommendation, one of which addresses teaching. Applicants at the tenured level may optionally submit research and teaching statements; the department will assume the responsibility of soliciting letters of evaluation, and will provide evaluators with a summary of policies on confidentiality.

Consideration of applications will begin on November 1, 2017, and will continue until the position is filled. Johns Hopkins University is committed to active recruitment of a diverse faculty and student body. The University is an Affirmative Action/Equal Opportunity Employer of women, minorities, protected veterans and individuals with disabilities, and encourages applications from members of these and other protected groups. We are committed to conducting a broad and inclusive search for a candidate who, through their research, teaching, and service, will contribute to the diversity and excellence of the JHU community. Consistent with the University's goals of achieving excellence in all areas, we will assess the comprehensive qualifications of each applicant.

If you have questions concerning this position, please contact Joyce Moody at joycem@jhu.edu.

Colby College

Tenure-track assistant professor position beginning September 1, 2019. The department of mathematics and statistics seeks an exceptional teacher with a dynamic research program **in combinatorics, graph theory, or a closely related area of discrete mathematics**. The teaching responsibility is an average of 4.5 courses per year. Candidates must have a Ph.D. in mathematics and must have at least one year of full-time teaching and/or research experience distinct from the Ph.D. program. Applications must include evidence of potential for a strong continuing research program and exceptional teaching and mentoring of undergraduates with diverse backgrounds and demographics.

For a full description of the position, please go to www.colby.edu/math.

DePaul University

The Department of Mathematical Sciences at DePaul University invites applications for **one tenure-track position in mathematics at the rank of Assistant Professor**, to begin September 2019. We seek candidates with a demonstrated record of effectiveness as the instructor for a variety of courses or teaching environments, a demonstrated commitment to continued development as an educator, and active engagement in high-quality research. Applicants must have a PhD in one of the mathematical sciences in-hand by December 2nd, 2018.

Completed applications must be uploaded to MathJobs.org by December 2nd, 2018. For more information, see <https://www.mathjobs.org/jobs/DePaul>.



University of North Carolina at Greensboro

The Department of Mathematics and Statistics at the University of North Carolina at Greensboro (UNCG) seeks applications for a **tenure-track position in Computational Algebra, Combinatorics, or Number Theory at the Assistant Professor rank** beginning August 1, 2019. Competitive applicants will have research expertise that strengthens our Ph.D. program in Computational Mathematics. Candidates must hold or anticipate a Ph.D. in mathematics or closely related discipline by August 1, 2019. Successful applicants will be expected to excel in teaching, maintain a vigorous research program, seek external research funding, and educate a diverse group of undergraduate and graduate students from various backgrounds. Application materials should be submitted electronically to <https://spartantalent.uncg.edu/postings/11231>.

Review of applications will begin on November 15, 2018 and will continue until the position is filled. UNCG is especially proud of the diversity of its student body which is 43% ethnic minority (<http://admissions.uncg.edu/discover-about.php>). UNCG has been designated as a Minority Serving Institution by the US Department of Education. We seek to attract a diverse applicant pool for this position, especially women and members of minority groups, and we are strongly committed to increasing faculty diversity. UNCG is an EOE AA/M/F/D/V employer.

Trinity College

Trinity College invites applicants for a tenure-track position in mathematics at the Assistant Professor level. Beginning August 2019, the position offers a competitive salary/benefits package, monetary support for research, a 2/2 teaching load in the first 2 years, and a 3/2 load thereafter. Requirements: a Ph.D. in mathematics, evidence of superior teaching, an active research program in a field with strong connections to algebra and applications to problems in other fields, and a strong potential for sustained research. Because Trinity is an urban liberal arts college whose 2200 students represent many socio-economic, racial, religious, and ethnic backgrounds across the US and abroad, candidates should also demonstrate a clear commitment to undergraduate education and research in a diverse community. Interest and accomplishment in guiding undergraduates in research is a plus. Only those applications completed by December 1, 2018, will be guaranteed full consideration. A complete application consists of a cover letter, curriculum vitae, a research summary, a statement of teaching philosophy in an inclusive liberal arts setting, and three letters of reference, at least one of which addresses teaching effectiveness. Please submit all application materials to www.mathjobs.org. Representatives of the department will be at the joint meetings of the AMS in Baltimore. Trinity College is an affirmative action/equal opportunity employer with a commitment to diversity in hiring. Women and members of minority groups are especially encouraged to apply. Applicants with disabilities should request in writing any needed accommodations in order to fully participate in the application process.

California State University, Los Angeles (Cal State LA)

The Department of Mathematics at California State University, Los Angeles is currently seeking an **Associate/Full Professor of Mathematics (with tenure)** with course coordination responsibilities. Starting Date: August 2019. Applications are now being accepted at the link below, where the full position announcement can be found at: <https://www.mathjobs.org/jobs/jobs/12544>.



Loyola Marymount University

The Mathematics Department of Loyola Marymount University invites applications for **two tenure-track positions at the Assistant Professor level** beginning Fall 2019. Responsibilities include teaching, advising, maintaining an active program of scholarship, and engaging in university service. Applicants are expected to have completed a Ph.D. or comparable terminal degree in mathematics, statistics, mathematics education, statistics education, or a related field by employment commencement in Fall 2019.

The first position will have an emphasis in the areas of analysis, data science, probability, or statistics and the second position will have an emphasis in the area of data science and data analytics. LMU is committed to broadening the participation of students in STEM fields, and applicants should describe in their cover letter their experience, demonstrated ability, or interest in teaching or mentoring underrepresented students to promote inclusion and diversity in the mathematical sciences.

The Mathematics Department is an inclusive community of 20 full-time faculty members and approximately 100 majors, minors, and Master of Arts in Teaching students. The department offers Bachelor of Science degrees in pure and applied mathematics, and a Bachelor of Arts degree for students interested in teaching. Faculty in the department work in many areas of pure and applied mathematics in an atmosphere of mutual respect and collegiality. The normal teaching load is 9 units per semester with the possibility of a reduced teaching load in the first two years. For additional information visit <http://cse.lmu.edu/department/math/>. Salary is competitive and commensurate with background and experience. LMU provides comprehensive benefit offerings and robust support for faculty. For more information visit <https://admin.lmu.edu/hr/benefits/> or review the Faculty Resource Guide at <http://academics.lmu.edu/ofd/newfacultyorientation/>.

Loyola Marymount seeks professionally outstanding applicants who value its mission and share its commitment to academic excellence, the education of the whole person, and the building of a just society. LMU is an equal opportunity institution actively working to promote an intercultural learning community. Women and minorities are encouraged to apply. Screening of applications will begin December 1, 2018. For more information and to apply visit <http://www.mathjobs.org/jobs>. Please address questions to Ben Fitzpatrick, Hiring Committee Chair, at Ben.Fitzpatrick@lmu.edu.

Appalachian State University

The Department of Mathematical Sciences at Appalachian State University invites applications for **one tenure-track faculty position at the rank of assistant professor** beginning August, 2019. Appalachian State University in Boone N.C. is an Affirmative Action/Equal Opportunity Employer, and strongly encourages applications from underrepresented groups. Applicants with expertise in combinatorics, financial mathematics, graph theory, number theory, or probability are also encouraged to apply. Tenure track faculty at Appalachian are expected to teach undergraduate and graduate courses, establish and maintain an active program of research or other scholarly activities, and participate in service activities. The standard teaching load is 18 hours per academic year. The initial review of complete applications will begin December 5, 2018, and will continue until the position is filled. For more information, see <https://hr.appstate.edu/employment/faculty-vacancies/1003>.



Purdue University

The Department of Mathematics in the College of Science at Purdue University invites applications for **three or more appointments in Mathematics** to begin August 2019. These appointments will be **at the level of assistant professor, or possibly higher rank** in the case of exceptional career achievements. These positions come at a time of new leadership and with multiple commitments of significant investment for the College of Science - Purdues second-largest college, comprising the mathematical, physical and life sciences. These positions are a central component of a large-scale interdisciplinary hiring effort across key strategic areas in the College, including mathematical and computational foundations, quantum computation, and data science, and aligns with the new campus-wide Data Science initiative. Research within the Department of Mathematics spans multiple areas of pure and applied mathematics and extends to collaborations with partners across science and engineering. Opportunities abound for collaboration across computer science and the theory of algorithms, theoretical and applied statistics, and the physical and life sciences. Successful candidates will combine an outstanding record of research excellence with a commitment to effective and engaged teaching. Appointments will be made based on demonstrated research and teaching qualifications. Candidates must have a Ph.D. (or its equivalent) in mathematics or a closely related field.

Preference will be given to outstanding applicants in the areas of

- Analysis and Geometry (including stochastic analysis/probability, harmonic analysis, partial differential equations, complex analysis, symplectic and differential geometry),
- Algebra and Topology (including algebraic topology, algebraic geometry, mathematical physics, automorphic forms and number theory, and commutative algebra), and
- Computational and Applied Mathematics (including applied, numerical, and computational analysis, the modeling of physical/biological systems, inverse problems, analysis of data, and machine learning).

Successful candidates are expected to develop a vibrant research program supported by extramural funding, teach undergraduate and/or graduate mathematics courses to a diverse student body, and supervise graduate students. Senior faculty will also mentor junior faculty and participate in the governance of the department, the College of Science, and Purdue University by serving on faculty committees.

Applications should be submitted online through www.mathjobs.org and should include (1) the AMS cover sheet for academic employment, (2) a cover letter, (3) a curriculum vitae, (4) a research statement, and (5) four letters of recommendation, one of which discusses the candidates teaching qualifications. Reference letter

Purdue University is an EOE/AA employer. All individuals, including minorities, women, individuals with disabilities, and veterans are encouraged to apply.

Purdue University - Zoltners Professor of Mathematics

The Department of Mathematics in the College of Science at Purdue University invites applications for an appointment at the rank of **tenured full professor to fill the endowed Andris A. Zoltners Professorship in Mathematics**.

This position comes at a time of new leadership and with multiple commitments of significant investment for the College of Science - Purdues second-largest college, comprising the mathematical, physical



and life sciences. The Zoltners Professorship is a central component of a large-scale interdisciplinary hiring effort across key strategic areas in the College, including mathematical and computational foundations, quantum computation, and data science, and aligns with the new campus-wide Data Science initiative. Research within the Department of Mathematics spans multiple areas of pure and applied mathematics and extends to collaborations with partners across science and engineering. Opportunities abound for collaboration across computer science and the theory of algorithms, theoretical and applied statistics, and the physical and life sciences.

Successful candidates will combine an outstanding record of research accomplishments, internationally recognized stature, credentials suitable for nomination as a Distinguished Professor, and great potential for future work and leadership within the mathematical community, at Purdue, nationally, and internationally. We will consider applications in any area of mathematics. Appointments will be made based on demonstrated research and teaching qualifications. Candidates must have a Ph.D. (or its equivalent) in mathematics or a closely related field.

Successful candidates are expected to lead a vibrant research program supported by extramural funding, teach undergraduate and/or graduate mathematics courses to a diverse student body, supervise graduate students and postdocs, mentor junior faculty, and participate in the governance of the department, the College of Science, and the University.

Applications should be submitted online through www.mathjobs.org and should include (1) the AMS cover sheet for academic employment, (2) a cover letter, (3) a curriculum vitae, (4) a research statement, and (5) four letters of recommendation, one of which discusses the candidates teaching qualifications. Reference letter writers should be asked to submit their letters online through www.mathjobs.org. Direct all inquiries to kstroud@math.purdue.edu. Applications are considered on a continuing basis but candidates are urged to apply by November 1, 2018.

Purdue University's Department of Mathematics is committed to advancing diversity in all areas of faculty effort, including scholarship, instruction, and engagement. Candidates should address at least one of these areas in their cover letter, indicating their past experiences, current interests or activities, and/or future goals to promote a climate that values diversity and inclusion. For more information about our department, see www.math.purdue.edu/. A background check will be required for employment in this position.

Purdue University is an EOE/AA employer. All individuals, including minorities, women, individuals with disabilities, and veterans are encouraged to apply.

Purdue University Golomb Visiting Assistant Professor and Zoltners Visiting Assistant Professor

The Department of Mathematics in the College of Science at Purdue University invites applications for **5 or more three-year positions as Visiting Assistant Professor**. These positions come at a time of new leadership and with multiple commitments of significant investment for the College of Science - Purdues second-largest college, comprising the physical, life, and computing sciences.

These positions will commence August 2019 and are open to mathematicians who demonstrate exceptional research promise and a strong teaching record. Ph.D. (or its equivalent) in mathematics or closely related field by August 12, 2019 is required.

Successful candidates will have research interests in common with Purdue faculty and a record of early research excellence. Duties include continued research production, engagement with faculty and students, and teaching of undergraduate and graduate mathematics courses.

Applications should be submitted online through www.mathjobs.org and should include (1) the AMS cover sheet for academic employment, (2) a curriculum vita, (3) a research statement, and (4) three



letters of recommendation, one of which discusses the candidates teaching qualifications. Reference letter writers should be asked to submit their letters online through www.mathjobs.org. Direct all inquiries to mathhead@purdue.edu. Screening of applications will begin November 13, 2018 and continue until filled. For information about our department, see www.math.purdue.edu/. A background check will be required for employment in these positions. Purdue University's Department of Mathematics is committed to advancing diversity in all areas of faculty effort, including scholarship, instruction, and engagement.

Candidates should address at least one of these areas in their cover letter, indicating their past experience, current interests or activities, and/or future goals to promote a climate that values diversity and inclusion.

Purdue University is an EOE/AA employer. All individuals, including minorities, women, individuals with disabilities, and veterans are encouraged to apply.

Montana State University

The Department of Mathematical Sciences at Montana State University (MSU) invites applications for a tenure-track Assistant Professor of Mathematics, to begin in August 2019.

Strong candidates in all areas of mathematics will be considered, but preference will be given to candidates with research interests in dynamical systems, mathematical analysis, geometry, or representation theory.

Duties include research, teaching, and service. A commitment to excellence in teaching and an active research program are essential. Instructional responsibilities include teaching lower division, upper division, and graduate courses in mathematics (generally with a 2-2 teaching assignment), as well as advising graduate and undergraduate students. Responsibilities may also include supervising lower division mathematics courses. Service includes department, college, and university committee work and participation in professional organizations.

Application materials should be submitted online at MathJobs: <https://www.mathjobs.org/jobs/jobs/12864>. For full information about the position see the official MSU Vacancy Announcement at <https://jobs.montana.edu/postings/13407>.

Applications received by December 9, 2018, will receive full consideration. However, applications will be accepted until the position is filled.

Equal Opportunity; Veterans/Disabled

University of California Riverside - Assistant Professor of Pure Mathematics

The Department of Mathematics at the University of California, Riverside invites applicants for one tenure-track faculty position beginning July 1, 2019. Applications are welcome from those in all areas of Pure Mathematics with strong synergy with the Department's current programs. Preference is given to analysis and topology. Minorities and members of underrepresented groups are particularly encouraged to apply.

For detailed information about this position and online application procedures, please see: <http://aptrkr.com/1322951>. Evaluation of applications will begin December 10, 2018 and continue until the position is filled. For full consideration, applicants should submit their complete applications by the above date. UC Riverside is an EEO/AA/ADA/ Vets Employer.



University of California Riverside - Assistant Professor of Applied Mathematics

The Department of Mathematics at the University of California, Riverside invites applications and nominations for one tenure-track faculty position beginning July 1, 2019. Applications are welcome from those with strong interdisciplinary background in any area of applied mathematics. Preference will be given to applicants in Computational Modeling of Fluids and Stochastic Modeling with Applications. Minorities and members of underrepresented groups are particularly encouraged to apply.

For detailed information about this position and online application procedures, please see: <http://apptrkr.com/1322950>. Evaluation of applications will begin December 10, 2018 and continue until the position is filled. For full consideration, applicants should submit their complete applications by the above date. UC Riverside is an EEO/AA/ADA/ Vets Employer.

University of California Riverside - Postdoctoral Fellowship in Pure Mathematics

The Department of Mathematics at the University of California, Riverside invites applications for two new positions in the Advancing Mathematics Faculty Diversity Fellows Program. Applications are welcome for exceptional candidates in all areas of Pure Mathematics with synergy with the Departments current programs. The anticipated start date of these positions is July 1, 2019.

The Advancing Mathematics Faculty Diversity Fellows program is a new initiative that offers an exciting opportunity for highly-qualified emerging scholars preparing to transition into the professoriate, offering an initial year of postdoctoral fellowship research support and training anywhere in the United States in 2019-2020 prior to their move to UC Riverside on July 1, 2020 as a tenure-track faculty member.

Additional details about these positions and online application procedures may be found at <http://apptrkr.com/1322949>. Evaluation of applications will begin December 10, 2018 and continue until the positions are filled. For full consideration, applicants should submit their completed applications by the above date. UC Riverside is an EEO/AA/ADA/Vets Employer.

University of California Riverside - Postdoctoral Fellowship in Applied Mathematics

The Department of Mathematics at the University of California, Riverside invites applications for two new positions in the Advancing Mathematics Faculty Diversity Fellows Program. Applications are welcome from those with a strong interdisciplinary background in any area of applied mathematics. Preference will be given to applicants in Computational Modeling of Fluids, Stochastic Modeling with Applications, Optimization, Multi-scale Modeling in Biology and Computational Methods for Nonlinear PDEs. The anticipated start date of these positions is July 1, 2019.

The Advancing Mathematics Faculty Diversity Fellows program is a new initiative that offers an exciting opportunity for highly-qualified emerging scholars preparing to transition into the professoriate, offering an initial year of postdoctoral fellowship research support and training anywhere in the United States in 2019-2020 prior to their move to UC Riverside on July 1, 2020 as a tenure-track faculty member.

Additional details about these positions and online application procedures may be found at <http://apptrkr.com/1322948>. Evaluation of applications will begin December 10, 2018 and continue until the positions are filled. For full consideration, applicants should submit their completed applications by the above date. UC Riverside is an EEO/AA/ADA/Vets Employer.



Spelman College

The Department of Mathematics invites applications for **three tenure-track or tenured faculty positions** at the rank of assistant or associate professor in all areas of mathematics to begin August 2019. Special consideration will be given to candidates with areas of specialization in Graph Theory, Combinatorics, Computational Mathematics, Mathematical Biology or Applied Mathematics. This appointment requires teaching, engaging in scholarly research activities, mentoring, and directing undergraduate research. Review of applications will begin immediately and will continue until the position is filled. For best consideration, submit all materials by December 31, 2018. For details about this position and how to apply, use the link: <https://spelman.peopleadmin.com/postings/1901>

Berry College

The Department of Mathematics and Computer Science at Berry College invites applications for a **3-year visiting instructor position in Mathematics** beginning August 2019. The teaching load for this position will be 12 credit hours per semester. The ideal candidate will demonstrate aptitude and enthusiasm for teaching in a liberal arts environment and a desire to contribute to our rich mathematics culture.

Our department has a strong commitment to excellent and innovative instruction in a student-centered environment. Interest in mathematical research is preferred but not required. Opportunities for mathematical-based research in fields such as healthcare, engineering, and environmental studies are readily available through collaboration with a variety of Berry Colleges established programs.

Applicants must hold a graduate degree in Mathematics or a closely related field. Preference may be given to candidates with a background in applied mathematics. Review of applications will begin December 11, 2018 and continue until the position is filled. Applicants should send a letter of application that includes a statement describing commitment to (or experience with) diversity, along with a current CV, unofficial graduate transcripts, statement of teaching philosophy, and three letters of recommendation (at least two of which should address evidence of, or potential for, teaching excellence) by e-mail to Julie Buffington at berrymath@berry.edu.

Earlham College

Earlham College invites applications for an Assistant Professor of Mathematics, a tenure-track position beginning in August 2019. The position is open to candidates in any area of mathematics. A Ph.D. in mathematics or a closely related field is required. The successful candidate will be passionate about teaching mathematics to a wide variety of students, interested in engaging in research with students, committed to participating in the larger Earlham community, and will have a plan for continued scholarly work. The College offers several forms of professional development support, including conference travel funds, summer research grants, pre-tenure sabbatical leave, and assistance with applications for external grants. For further details, and to apply, please visit <https://www.mathjobs.org/jobs/jobs/13099>



The University of Washington Tacoma

Two Tenure Track & Two Lecturer Positions in Mathematics and Statistics at University of Washington Tacoma

The University of Washington Tacoma invites applications for **four positions in the Division of Sciences and Mathematics within the School of Interdisciplinary Arts & Sciences (SIAS): a tenure-track Assistant Professor in Statistics, a tenure-track Assistant Professor in Mathematics with a specialty in Numerical Analysis, and two Lecturers in Mathematics**. These are full-time positions with 9-month service periods starting September 16, 2019. The Assistant Professor in Statistics position requires an earned doctorate (or foreign equivalent) in statistics or a related applied field (such as biostatistics, applied quantitative analysis, quantitative psychology, quantitative ecology, quantitative business or economics, or others). The Assistant Professor in Mathematics (Numerical Analysis) position requires a Ph.D. (or foreign equivalent) in mathematics with a specialty in numerical analysis, numerical methods, scientific computation or modeling with applications. The Lecturer positions require at minimum a Master's degree (or foreign equivalent) in mathematics, statistics, applied mathematics, or a related field.

The University of Washington Tacoma serves a dynamic and culturally diverse population of over 5000 undergraduate and graduate students; most of our student population is first generation in college. We seek candidates experienced in and/or who have a demonstrated commitment to working with diverse student populations, and who will effectively support students underrepresented in STEM-related fields, provide mentoring opportunities for undergraduates, build community connections, and integrate evidence-based and inclusive pedagogical techniques into undergraduate mathematics teaching and learning. These positions will contribute to our new undergraduate mathematics major within an interdisciplinary framework bringing specific expertise and interest in capstone experiences and curriculum development for the mathematics major in addition to teaching undergraduate upper and lower division mathematics courses serving students across campus.

UW Tacomas commitment to diversity is central to maintaining an atmosphere wherein students, staff, faculty and residents find abundant opportunities for intellectual, personal and professional growth. University of Washington is an affirmative action and equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, creed, religion, national origin, sex, sexual orientation, marital status, pregnancy, genetic information, gender identity or expression, age, disability, or protected veteran status.

The University of Washington is committed to building diversity among its faculty, librarian, staff, and student communities, and articulates that commitment in the UW Diversity Blueprint (<http://www.washington.edu/diversity/diversity-blueprint/>). Additionally, the University's Faculty Code recognizes faculty efforts in research, teaching and/or service that address diversity and equal opportunity as important contributions to a faculty members academic profile and responsibilities (<https://www.washington.edu/admin/rules/policies/FCG/FCCH24.html#2432>). UW Tacoma faculty engage in teaching, research, and service and generally participate in lower division, upper division, and graduate instruction.

Candidates are encouraged to apply separately to any or all of the positions for which they are qualified. For details of the individual job advertisements and application deadlines please see:

<http://apply.interfolio.com/56715>

<http://apply.interfolio.com/56943>

<http://apply.interfolio.com/56667>



Bowling Green State University

The Department of Mathematics and Statistics at Bowling Green State University invites applications for a **tenure-track position in algebra or topology** at the rank of Assistant Professor starting August 2019. Competitive salary with full benefits.

Minimum qualifications: must have satisfied all the program requirements of a doctoral degree in mathematics with research area in algebra or topology by the start of employment (August 2019); demonstrated research productivity through one or more published or in press refereed journal articles or book chapters in leading venues of mathematics.

Preferred qualifications: postdoctoral experience; experience seeking external research support; experience teaching mathematics or statistics courses. For a complete job description & instructions on how to apply for this position, visit the website: <https://bgsu.hiretouch.com/>. All applications are accepted and processed through the HireTouch website. For an application to be considered as complete, submit (1) a letter of application (cover letter), (2) statements of both teaching and research interests that include experience to date and describe goals for the future, (3) current curriculum vitae, (4) a statement of commitment to diversity in higher education, (5) three current (dated within the past year) letters of reference, and (6) transcripts indicating the highest degree earned.

Finalist will be required to submit official transcripts and to authorize and pass a background check prior to an offer of employment being made. **Application deadline: November 15th, 2018.** BGSU is an AA/EEO/Vet employer dedicated to the goal of building a culturally diverse and pluralistic faculty and staff committed to teaching and working in a diverse environment. We encourage applications from women, minorities, veterans, and persons with disabilities regardless of age, gender identity, genetic information, religion, or sexual orientation.

Bowling Green State University

The Department of Mathematics and Statistics at Bowling Green State University invites applications for a **tenure-track position at the rank of Assistant Professor in Data Science** with a start date of August 2019. Competitive salary with full benefits.

Minimum qualifications: must have satisfied all the program requirements of a doctoral degree in data science, statistics, or in a closely related field (e.g., mathematics or computer science) by the start of employment (August 2019); teaching experience as a TA or instructor; demonstrated scholarly work in data science, data analytics, or in a closely related area such as data mining, machine learning, high-dimensional data analysis, and high performance computing (HPC) with large data sets in modern statistics, through publications, doctoral dissertation or technical report on the results from the development of doctoral dissertation, or research presentations at national/international conferences.

Preferred qualifications: demonstrated research productivity through one or more published or in press referred journal articles or book chapters in top tier outlets in data science or data analytics; experience seeking external research support; experience teaching data science or statistics courses. For a complete job description & instructions on how to apply for this position, visit the website: <https://bgsu.hiretouch.com/>. All applications are accepted and processed through the HireTouch website. For an application to be considered as complete, submit (1) a letter of application (cover letter), (2) statements of both teaching and research interests that include experience to date and describe goals for the future, (3) current curriculum vitae, (4) a statement of commitment to diversity, (5) names and contact information of three individuals who will be asked to provide current (dated within the past year) letters of reference, and (6) transcripts indicating the highest degree earned or up-to-date transcripts from the current university.



The finalist will be required to submit official transcripts and to authorize and pass a background check prior to an offer of employment being made. **Application deadline: January 15th, 2019.** BGSU is an AA/EEO/Vet employer dedicated to the goal of building a culturally diverse and pluralistic faculty and staff committed to teaching and working in a diverse environment. We encourage applications from women, minorities, veterans, and persons with disabilities regardless of age, gender identity, genetic information, religion, or sexual orientation.

Diablo Valley College

Mathematics Assistant Professor - Job Number: F00466 - Salary: 59,616–89,724 annually
Deadline: 11/29/2018

Complete job description and application available online at:
<https://www.4cdcareers.net/postings/5432>

Minimum Qualification-Education/Experience Masters degree in mathematics or applied mathematics OR bachelors degree in either of the above AND masters degree in statistics, physics, or mathematics education, OR a valid California Community College Instructor Credential authorizing full-time instruction in Mathematics, OR the equivalent. If you do not possess the EXACT minimum qualifications (i.e. you do not possess the exact degree listed) and believe that you meet the minimum qualifications because of equivalent educational or professional background), please fill out the equivalency petition form found at <http://www.4cd.edu/career/forms/MastersDegreeEquiv.pdf>

It is the Districts policy to ensure that all qualified applicants for employment and employees have full and equal access to employment opportunity, and are not subjected to discrimination in any program or activity of the District on the basis of ethnic group identity, race, color, ancestry, religion, marital status, sex, national origin, gender, gender identity, gender expression, age, sexual orientation, physical or mental disability, medical condition, genetic information, veteran status, parental status, citizenship or because an individual is perceived to have one or more of these characteristics or based on association with a person or group with one or more of these actual or perceived characteristics.

MAA Project NExT

MAA Project NExT Associate Director Search

We are conducting a search for an Associate Director, with a four-year renewable term which would begin shortly after MAA MathFest 2019. The Associate Director (one of four) reports to the MAA Project NExT Director and assists with all aspects of the program as assigned by the Director, including (but not limited to) reading applications, planning and leading sessions for the participants, promoting and managing online discussions, coordinating participants who are planning sessions, and public speaking to advance the goals of the program.

Compensation may be used for a mix of course release and stipend, to be negotiated by the applicant with their home institution. Attendance at MAA MathFest and the Joint Mathematics Meetings is required and travel to both conferences is provided.

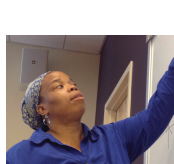
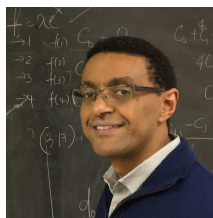
Application instructions can be found at <https://tinyurl.com/maa-project-next> and must be received by December 1, 2018. For more information about MAA Project NExT, please visit projectnext.maa.org or contact projectnext@maa.org.



Events of Interest to NAM Members

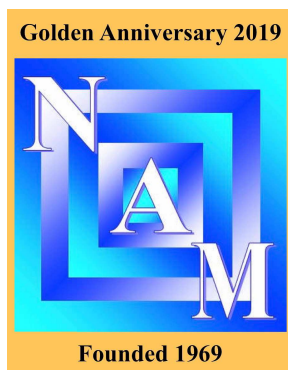
A complete list of events containing these and more can be found online:

<https://www.nam-math.org/upcoming-activities.html>



2019 Joint Mathematics Meetings: January 16-19. The next Joint Mathematics Meetings will take place from January 16-19, 2019 in Baltimore, Maryland. NAM will present Lifetime Achievement Awards to **Melvin R. Currie** (National Security Agency) and **Evelyn Boyd Granville**. The Cox-Talbot Address will be given by **Talithia Williams** (Harvey Mudd College). The Claytor-Woodard Lecture will be given by **Henok Mawi** (Howard University).

There will be several special sessions commemorating the Golden Anniversary of the NAM organization in addition to the awards and lectures listed above. There will be 26 invited presentations in the following sessions; two sessions titled, *The Mathematics of Historically Black Colleges and Universities (HBCUs) in the Mid-Atlantic* — co-



sponsored by the American Society of Mathematicians, a Town Hall Meeting on the Status of the African Diaspora in the Mathematical Sciences — co-sponsored with the National Security Agency, an invited paper session titled, *The Past 50 Years of African Americans in the Mathematical Sciences* — co-sponsored with the Mathematical Association of America, and a forward thinking panel discussion titled, *Where Do We Go from Here?*

More information can be found at the web site www.nam-math.org/jmm-events.html#2019.

The Faculty Conference on Research and Teaching Excellence (FCRTE) is a two-day meeting, typically Friday and Saturday in the Spring, which rotates around the country based on NAM's regional structure. The conference is geared for faculty from Historically Black Colleges and Universities (HBCUs). The conference consists of five components: A Short Course in Computational Science, The Albert Turner Bharucha-Reid Lecture, Recognition Banquet, Contributed Talks, and a Regional Panel Discussion.

More information can be found at the web site <https://www.nam-math.org/fcrte.html>.



More information can be found at the web site www.nationalmathfestival.org/2019-festival/.



2019 MAA-NAM Blackwell Lecture Dr. Johnny Houston, Elizabeth City State University, will give the David Harold Blackwell Lecture at the 2019 MAA MathFest on Friday August 2, 2019 in Cincinnati, OH.



MSRI

Call for Applications: 2019-20 Research Programs

The Mathematical Sciences Research Institute in Berkeley, California invites applications for membership in its 2019-20 research programs.

FALL 2019

- Holomorphic Differentials in Mathematics and Physics
- Microlocal Analysis

SPRING 2020

- Quantum Symmetries
- Higher Categories and Categorification

msri.org/programs

Apply online beginning August 1, 2018

Research Professorships (Deadline: 10/1/18)

Research Memberships and Postdoctoral Fellowships (Deadline: 12/1/18)



The Institute is committed to the principles of Equal Opportunity and Affirmative Action. Students, recent Ph.D.s, women, and minorities are particularly encouraged to apply.



MSRI has been supported from its origins by the National Science Foundation, now joined by the National Security Agency, over 100 Academic Sponsor Institutions, by a range of private foundations, and by generous and farsighted individuals.



BEAM

Bridge to Enter Advanced Mathematics

Summer Positions Available!

This summer, *change the lives* of underserved students with exceptional potential in mathematics.



Bridge to Enter Advanced Mathematics is a free program for students from low-income and historically marginalized communities who show exceptional potential in mathematics.



“Teaching at [BEAM] was a great joy, and I highly recommend it as an outreach initiative to get involved in!”

- Dr. Mohamed Omar, Associate Professor, Harvey Mudd College

For Summer 2019, we are hiring:

...college professors and classroom teachers as faculty.

Design your own courses on favorite math topics. Teach to small classes of motivated middle schoolers.

...graduate students as junior faculty who design and teach courses with structured support and mentorship.

...college students as student life counselors and teaching assistants.



Dr. Karen Taylor works with a student in her Number Theory class.

For more information and how to apply:

beammath.org/jobs



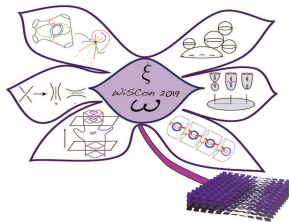
Topical Workshop

■ JULY 22-26, 2019

Women in Symplectic and Contact Geometry and Topology Workshop (WiSCon)

Organizing Committee:

Bahar Acu, Northwestern University
Catherine Cannizzo, University of California, Berkeley
Dusa McDuff, Barnard College
Ziva Myer, Duke University
Yu Pan, MIT
Lisa Traynor, Bryn Mawr College



The Women in Symplectic and Contact Geometry and Topology workshop (WiSCon) is a Research Collaboration Conference for Women (RCCW) in the fields of contact and symplectic geometry/topology and related areas of low-dimensional topology. The goal of this workshop is to bring together women and nonbinary researchers at various career stages

in these mathematical areas to collaborate in groups on projects designed and led by female leaders in the field.

The mathematical fields of symplectic and contact geometry/topology, rooted in concepts from classical physics, have experienced huge growth in the past few decades. This growth has come in many forms, including multiple flavors of homology theories, symplectic embedding problems, techniques for regularizing spaces of pseudoholomorphic curves, and examples of mirror symmetry, to name a few. This workshop aims to generate research collaborations which build on the growing momentum in these topics, while fostering a network for the traditionally underrepresented groups of women and nonbinary mathematicians.

Senior graduate students and early career researchers (including tenure-track) are strongly encouraged to apply. *The application deadline is January 7, 2019.*

Group Leaders:

Penka Georgieva, IMJ-PRG
Eli Grigsby, Boston College
Tara Holm, Cornell University
Jennifer Hom, Georgia Tech
Ailsa Keating, University of Cambridge
Christine Ruey Shan Lee, Univ. of S. Alabama
Chiu-Chu Melissa Liu, Columbia University
Allison Moore, UC Davis
Emmy Murphy, Northwestern University

Yu Pan, MIT
Ina Petkova, Dartmouth College
Ana Rita Pires, University of Edinburgh
Olga Plamenevskaya, Stony Brook University
Radmila Sazdanović, NC State University
Laura Starkston, UC Davis
Lisa Traynor, Bryn Mawr College
Vera Vártesi, University of Strasbourg
Katrin Wehrheim, UC Berkeley



Participation

Most ICERM workshops are aimed at scientists who have, or are pursuing, a doctoral degree and are actively involved in the topic of the workshop. To request an invitation to an ICERM workshop, please complete an online application. Support for local expenses may be provided. Decisions about online applications are typically made 1–3 months before the workshop, as space and funding permits. ICERM encourages women and members of underrepresented minorities to apply. More information and an application form are available on our website.

About ICERM

The Institute for Computational and Experimental Research in Mathematics (ICERM) is a National Science Foundation Mathematics Institute at Brown University in Providence, RI. Its mission is to broaden the relationship between mathematics and computation: specifically, expand the use of computational and experimental methods in mathematics, support theoretical advances related to computation, and address problems posed by the existence and use of the computer through mathematical tools, research and innovation.

This event is partially supported by NSF-HRD 1500481 - AWM ADVANCE grant.



ICERM

121 South Main Street
 Box E, 11th Floor
 Providence, RI 02903
 401-863-5030
 info@icerm.brown.edu



Institute for Computational and Experimental Research in Mathematics
icerm.brown.edu



Institute for Computational and Experimental Research in Mathematics POSTDOCTORAL FELLOWSHIPS



The Institute for Computational and Experimental Research in Mathematics (ICERM) at Brown University invites applications for its postdoctoral fellowship positions:

- Two academic year Institute Postdoctoral Fellowships
- Ten semester-length Postdoctoral Fellowships
- All Postdoctoral Fellows matched with faculty mentors
- Brown University is an equal opportunity/affirmative action employer and encourages applications from women and minorities.
- Priority will be given to applications received by January 4, 2019
- **Apply via Mathjobs.org** (Search under Brown University)

These positions are intended for mathematical scientists at an early stage of their career (those who have completed their Ph.D. within three years of the start of the appointment)

2019-2020 Institute Postdoctoral Fellows: ICERM's two Postdoctoral Institute Fellowships are nine-month appointments. Both positions commence in September 2019. One Institute Fellow will participate in the fall 2019 *Illustrating Mathematics* semester program and will remain as a researcher-in-residence during the spring 2020 semester. The other Institute Fellow will begin as a researcher-in-residence during the fall 2019 semester and will participate in the spring 2020 *Model and Dimension Reduction in Uncertain and Dynamic Systems* semester program. ICERM will match these two Institute Fellows with faculty mentors for the entire academic year. Institute Fellows receive a nine-month salary of \$52,000 with benefits, and a travel allowance of \$1,500.

2019-2020 Semester Postdoctoral Fellows: ICERM's ten Postdoctoral Semester Fellowships are four-month appointments. Five Semester Fellows will begin their appointments in September 2019 during the *Illustrating Mathematics* semester program. The other five Semester Fellows will begin their appointments in January 2020 during the *Model and Dimension Reduction in Uncertain and Dynamic Systems* semester program. ICERM will match each Semester Fellow with a faculty mentor for the duration of their semester program. ICERM Semester Fellows receive a salary of \$26,000 over four months, plus benefits and a travel allowance of \$750.



icerm.brown.edu

ICERM | 121 S. Main Street | 11th Floor | Providence, RI 02903





MATHEMATICS RESEARCH COMMUNITIES

Advancing research. Creating connections.

We welcome applications for 2019!

The Mathematics Research Communities (MRC) program helps early-career mathematicians develop long-lasting cohorts for collaborative research projects in many areas of mathematics.

Apply for funding and attend one of these one-week, collegial, hands-on research conferences held at Whispering Pines Conference Center in West Greenwich, Rhode Island in June 2019.

JUNE 2-8, 2019

Geometric Representation Theory & Equivariant Elliptic Cohomology

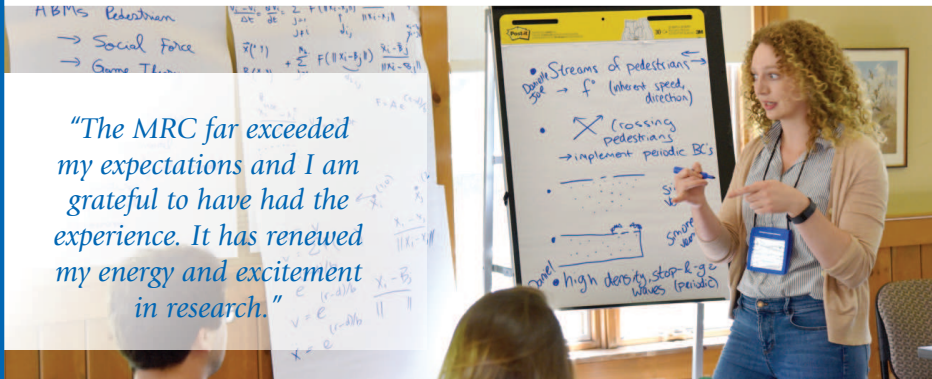
JUNE 9-15, 2019

Stochastic Spatial Models

JUNE 16-22, 2019

Explicit Methods in Arithmetic Geometry in Characteristic p

"The strong sense of community and collegiality was incredibly important. It was an easy group to socialize with, both on personal and professional levels, and felt like an organic way to create long-lasting relationships."



"The MRC far exceeded my expectations and I am grateful to have had the experience. It has renewed my energy and excitement in research."

Learn more at

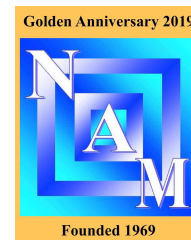
www.ams.org/mrc

Women and underrepresented minorities are especially encouraged to apply.

The MRC program is supported by the AMS and a grant from the National Science Foundation.



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- Any state not in B or C

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- District of Columbia
- Kentucky
- Maryland
- New Jersey
- New York
- North Carolina
- Pennsylvania
- Virginia
- West Virginia

Region C

Midwest/Southwest

- Arkansas
- Louisiana
- Missouri
- Oklahoma
- Illinois
- Ohio
- Mississippi
- Tennessee
- Texas





NATIONAL ASSOCIATION OF MATHEMATICIANS MEMBERSHIP AND DONATION FORM

MEMBERSHIP CALENDAR YEAR: JANUARY 1, 2018 to DECEMBER 31, 2018

This form can also be completed online at <https://www.nam-math.org/authenticate/register/>

TITLE _____ NAME _____
 ADDRESS _____
 INSTITUTION/EMPLOYER _____
 TELEPHONE: HOME (____) _____ OFFICE (____) _____
 FAX: (____) _____ E-MAIL ADDRESS _____

SELECT APPROPRIATE MEMBERSHIP TYPE

STUDENT: \$30 INDIV'L: \$50 LIFE: \$500 GOLDEN LIFE: \$1,000 INST'L: \$150
 GENERAL DONATION \$ _____
 GOLDEN ANNIVERSARY CAMPAIGN DONATION \$ _____

PLEASE RETURN COMPLETED FORM AND MEMBERSHIP DUES TO:

Dr. Roselyn E. Williams, Secretary-Treasurer

National Association of Mathematicians
 P.O. Box 5766
 Tallahassee, FL 32314-5766

Office Phone: (850) 412-5236
 E-Mail: secretary-treasurer@nam-math.org
 Web: <http://www.nam-math.org>

INDIVIDUALS AND STUDENTS

Please complete below if you did not send NAM this information within the past three years. List all degrees you currently hold. Circle the correct degree.

B.S. or B.A.: Area _____ Institution _____
 M.S. or M.A.: Area _____ Institution _____
 Ph.D. or Ed.D.: Area _____ Institution _____
 Other: Area _____

- Institutional Representative (for NAM)
- Area or State Representative _____
- Committee Member (specify interest): Interest _____
- Need additional information about the organizational structure of NAM

RACE/ETHNICITY (Optional):

Asian Black Hispanic Native American Pacific Islander White Other



DONOR CARD
 NAM GOLDEN
 ANNIVERSARY CAMPAIGN

**My gift to the NAM Golden Anniversary
 Endowment Campaign.**

Campaign Giving Levels

Platinum: \$5,000 and up Patron: \$150 -\$499
 Gold: \$2,500 -\$4,999 Sponsor: \$50 -\$149
 Silver: \$1,000 -\$2,499 Donor: less than \$50
 Bronze: \$500 -\$999

My gift amount is \$ _____

With my gift above, I desire **NAM Life
 Membership:**

___ Golden Life Membership (\$1,000+)
 ___ Regular Life Membership (\$500)

*All gifts above will be identified by giving
 levels, rather than by individual amounts, in
 campaign reports.*

[] I want my gift to remain anonymous.
 [] My donation is for a special designation.
 Designation:

**Please credit my gift as an endowment of
 a NAM program** (See right column for amounts.
 \$25,000 minimum)

___ I am enclosing my gift (by mail)
 ___ I will pay on the NAM website
 (Go to www.nam-math.org)

**Make check payable to NAM G. A. Campaign
 and mail check to:**

Dr. Roselyn E. Williams, Secretary-Treasurer,
 P.O. Box 5766, Tallahassee, Florida 32314

NAM is a 501(c)(3) non-profit organization.
 All gifts are tax deductible

Name _____
 Address _____

 Institution/Employer _____

 Phone _____
 E-mail _____

___ I am making a pledge to be paid by
 September 30, 2019.
 PLEDGE amount \$ _____

**ENDOWMENT OF AN ANNUAL
 NAM PROGRAM OR ACTIVITY**

*(Full endowment amounts listed. For more
 information contact jlhouston602@gmail.com)*

Undergraduate MATHfest	\$500,000
Computational Science Institute	\$250,000
Faculty Teaching & Research Institute	\$250,000
Haynes-Granville-Browne Colloquium Presentations by New PhDs	\$125,000
Claytor-Woodard Lecture	\$125,000
Cox-Talbot Address	\$125,000
J. Ernest Wilkins Lecture	\$125,000
Albert T. Bharucha-Reid Lecture	\$125,000
David Blackwell Lecture	\$125,000
Clarence Stephens-Abdulalim Shabazz Teaching Award	\$125,000
Archives	\$125,000

Note: For student, regular individual
 and institutional NAM memberships, go
 to www.nam-math.org.



Preserving the past while endowing for the future!

NAM Golden Anniversary Campaign 2018-2019

The National Association of Mathematicians (NAM) will celebrate its **50th Anniversary Year** in 2019. From January 1, 2018 through September 30, 2019, NAM will conduct a **GOLDEN ANNIVERSARY CAMPAIGN** with the goal of establishing a NAM Endowment Fund of at least **\$2 million** to serve as the base support, ensuring vibrant annual programs and activities for many years into the future. During the campaign NAM expects to:

- Increase its membership of Regular, Life, Student, and Institutional Members
- Endow several annual programs, lectures, and other activities
- Solicit increased support from the broader community, including friends, philanthropists, foundations, companies, and other supportive enterprises.

Golden Anniversary Campaign Committee

Dr. Johnny L. Houston, Elizabeth City State Univ., Co-Chair, jlhouston602@gmail.com; 252-267-2222

Dr. Sylvia T. Bozeman, Spelman College, Co-Chair, sylvia.bozeman12@att.net

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Endow Program/Activity!

Listed below are full endowment amounts.

Undergraduate MATHFest	\$500,000
Computational Sc. Institute	\$250,000
Faculty Teaching & Research Institute	\$250,000
Haynes-Granville-Browne Colloquium Presentations by new PhDs	\$125,000
Claytor-Woodard Lecture	\$125,000
Cox-Talbot Address	\$125,000
Albert T. Bharucha-Reid Lecture	\$125,000
J. Ernest Wilkins Lecture	\$125,000
David Blackwell Lecture	\$125,000
Clarence Stephens-Abdulalim Shabazz Teaching Award	\$125,000
Archives	\$125,000

A gift of \$25,000 or more will partially endow one NAM annual program or activity. NAM is a 501(c)(3) non-profit organization. All gifts are tax deductible.

How to Support the Campaign

- Fully or partially endow an annual activity/program
- Encourage others to support the campaign with full/partial endowments
- Give a gift in honor of or in memory of a friend or colleague.
- Include NAM in your estate or future planning.

www.nam-math.org

Golden Anniversary 2019



Founded 1969

The National Association of Mathematicians (NAM), Inc. is a non-profit professional organization in the mathematical sciences with membership open to all.

NAM's Mission

- To promote excellence in the mathematical sciences.
- To promote the mathematical development of underrepresented American minorities.

Major Activities by Season!

WINTER: NAM National Meeting at the JMM, Claytor-Woodard Lecture, Haynes-Granville-Browne Colloquium of Presentations by new PhDs, Cox-Talbot Address and Stephens-Shabazz Teaching Award

SPRING: Regional Faculty Conference, Albert T. Bharucha-Reid Lecture

SUMMER: David Blackwell Lecture, Summer Student Computational Science Institute

Fall: Undergraduate MATHFest, J. Ernest Wilkins Lecture

NAM Newsletter

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Golden Anniversary 2019



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